# Supplemental Main Terminal
# Phase II Site Investigation Report
# Martin State Airport
# 701 Wilson Point Road
# Middle River, Maryland

Prepared for:

Lockheed Martin Corporation

Prepared by:

Tetra Tech, Inc.

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Michael Martin, P.G.
Regional Manager



Anthony Apanavage, P.G.
Project Manager

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# ACRONYMS

| | |
|---|---|
| ATC | anticipated typical concentration |
| BTEX | benzene, toluene, ethylbenzene, and xylenes |
| C.A.T. | cable-avoidance tool |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act |
| COC | chain of custody |
| CFR | Code of Federal Regulations |
| DO | dissolved oxygen |
| DPT | direct-push technology |
| DRO | diesel-range organics |
| EESH | energy, environment, safety, and health |
| EGIS | environmental geographic information system |
| FAA | Federal Aviation Administration |
| GIS | geographic information system |
| GPR | ground-penetrating radar |
| GPS | global positioning system |
| GRO | gasoline-range organics |
| GSP | Greater Strawberry Point |
| HASP | health and safety plan |
| IDW | investigation-derived waste |
| Lockheed Martin | Lockheed Martin Corporation |
| MAA | Maryland Aviation Administration |
| MDE | Maryland Department of the Environment |
| MDOT | Maryland Department of Transportation |
| µg/L | microgram(s) per liter |
| µg/kg | microgram(s) per kilogram |
| mg/L | milligram(s) per liter |
| mg/kg | milligram(s) per kilogram |
| MIP | membrane-interface probe |
| MSA | Martin State Airport |
| msl | mean sea level |
| MW | monitoring well |
| NPDES | National Pollutant Discharge Elimination System |

| | |
|---|---|
| ORP | oxidation-reduction potential |
| PAH | polycyclic aromatic hydrocarbons |
| PCB | polychlorinated biphenyl |
| PDF | portable document format |
| PID | photoionization detector |
| PM | project manager |
| PPE | personal protective equipment |
| PVC | polyvinyl chloride |
| REC | recognized environmental condition |
| SB | soil boring |
| SG | soil gas |
| SP | Strawberry Point |
| SPCCP | spill prevention control and countermeasures plan |
| SVOC | semivolatile organic compound |
| TCE | trichloroethene |
| TCLP | toxicity characteristic leaching procedure |
| Tetra Tech | Tetra Tech, Inc. |
| TPH | total petroleum hydrocarbons |
| USDOT | United States Department of Transportation |
| USEPA | United States Environmental Protection Agency |
| UST | underground storage tank |
| VOC | volatile organic compound |

# Section 1
# Introduction

On behalf of Lockheed Martin Corporation (Lockheed Martin), Tetra Tech, Inc. (Tetra Tech) has prepared this report to document the approach and results of a supplemental Phase II environmental investigation of the Main Terminal Area of Martin State Airport (MSA) in Middle River, Maryland. This investigation supplements the previous 2011 Phase II site investigation of the Main Terminal Area. The Main Terminal Area includes the northwestern portion of Martin State Airport and covers approximately 280 acres east of Wilson Point Road and Dark Head Cove. The locations of Martin State Airport and the Main Terminal Area are shown in Figures 1-1 and 1-2. This supplemental Phase II investigation consisted of additional surface and subsurface explorations and tests to further assess soil and groundwater conditions near the main terminal, and evaluate whether petroleum and/or hazardous substances may be present as a result of past site operations. This investigation was conducted in accordance with the *Main Terminal Phase II Site Investigation Work Plan* (Tetra Tech, 2011).

The 2011 Phase II investigation focused on several recognized environmental condition (REC) areas at the main terminal that were first documented in two environmental reports prepared in 2010: the *Environmental Evaluation Report for Martin State Airport Main Terminal* (Tetra Tech, 2010a), and the *Environmental Evaluation Addendum, Martin State Airport Main Terminal* (Tetra Tech, 2010b). Identification of these recognized environmental conditions, which include hangars 1–6 and associated facilities, is based on review and evaluation of historical records and subsequent field verification. Several recognized environmental conditions pertain to operations dating back to the original airport construction in the late 1930s and early 1940s. The recognized environmental conditions specifically investigated as part of this supplemental Phase II investigation include:

- recognized environmental condition #2 (former fueling station B at hangar 6 apron)
- recognized environmental condition #3 (former fueling and defueling pits and fuel-oil underground storage tanks [USTs] at hangar 1)

- recognized environmental condition #9 (hangars 4 and 5 heating/boiler rooms)

- recognized environmental condition #21 (hangar 5 painting/stripping area and acid-neutralization system)

The investigation entailed the following activities, which are described in this report:

- obtained utility clearances, access arrangements, and associated permits for intrusive investigations from Lockheed Martin, Maryland State Airport, Maryland Aviation Administration (MAA), and the Federal Aviation Administration (FAA), as applicable, to conduct field activities

- advanced five soil borings and collected soil samples for chemical analysis using direct-push technology (DPT)

- installed six two-inch-diameter groundwater monitoring wells using a low-profile mini-sonic drill rig

- collected and analyzed groundwater samples and water levels from the six new wells and the six wells installed in 2011

- obtained synoptic groundwater-level measurements in the new and previously installed Main Terminal Area wells

- conducted professional surveys of locations for advancing soil borings and installing monitoring wells, using a Maryland-licensed surveyor

- collected, characterized, and stored investigation-derived waste (IDW) and disposed of such waste at an off-site, Lockheed Martin-approved, state-licensed treatment or disposal facility

- performed laboratory chemical analyses and chemical-data validation of soil and groundwater samples

- evaluated environmental sampling data

This report is organized as follows:

Section 2—Site Background: Briefly describes the site history, current conditions, and a summary of previous investigations.

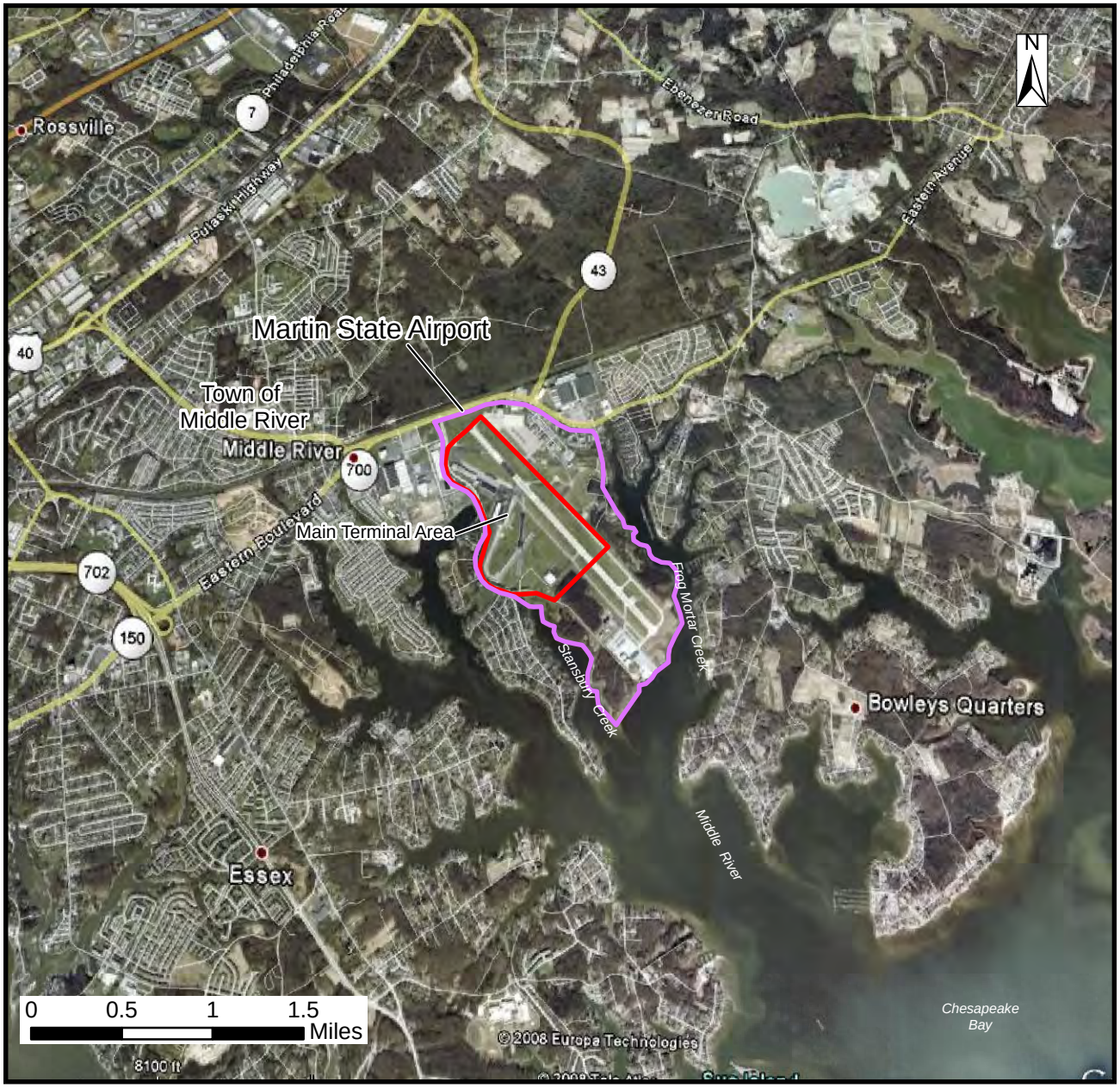
Section 3—Investigation Approach and Methodology: Presents the technical approach to the investigation and describes the field methodologies used.

Section 4—Results: Presents and discusses the results of the field program.

Section 5—Summary and Recommendations: Summarizes the investigation program and findings and provides recommended courses of action.

Section 6—References: Cites references used to compile the report.

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Source: Google Earth Pro, 2008

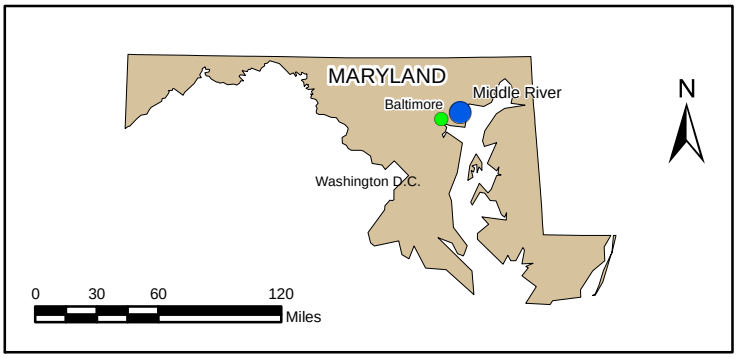



**FIGURE 1-1**

**MARTIN STATE AIRPORT AND MAIN TERMINAL AREAS LOCATION MAP**

***Lockheed Martin, Martin State Airport***
***Middle River, Maryland***

| DATE MODIFIED: | CREATED BY: |
|---|---|
| 8/15/13 | MP |

TETRA TECH

Map Document: (K:\GProject\MartinStateAirport-LMC\MapDocs\MXD\Maps\MSA Main Terminal and Surrounding Features.mxd)
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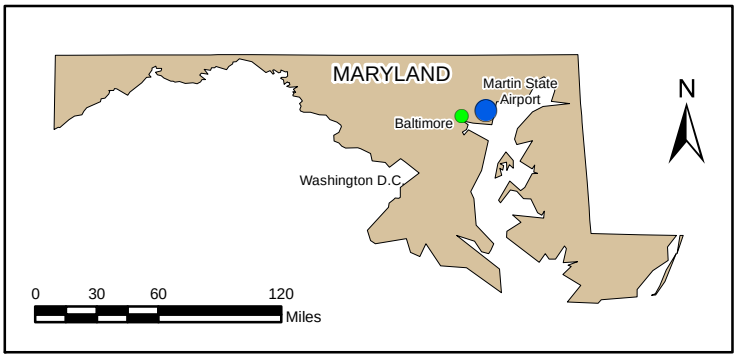



**FIGURE 1-2**

**MARTIN STATE AIRPORT**
**MAIN TERMINAL BUILDINGS**
**AND SURROUNDING FEATURES**

***Lockheed Martin, Martin State Airport***
***Middle River, Maryland***

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# Section 2
# Site Background

## 2.1 SITE DESCRIPTION

### 2.1.1 Location

Martin State Airport (MSA) is at 701 Wilson Point Road in Middle River, Maryland. It is bounded by Frog Mortar Creek to the east and Stansbury Creek to the west (see Figures 1-1 and 1-2). Both creeks are tidal tributaries of the Chesapeake Bay. The area under investigation is the Main Terminal Area of MSA. The main terminal comprises approximately 280 acres in the northwestern portion of MSA, east of Wilson Point Road and Dark Head Cove, and consists of the main terminal building, aircraft hangars, aircraft fueling stations, several taxiways, and the northern portion of the runway. The investigation documented in this report was conducted in only a portion of the Main Terminal Area, primarily around the terminal and hangar buildings.

### 2.1.2 History

The current MSA property (approximately 775 acres) was part of the Glenn L. Martin Company's approximately 1,260-acre property (including surrounding areas) containing manufacturing facilities. The Glenn L. Martin Company purchased six parcels of relatively undeveloped land from private landowners during the spring and summer of 1929. Nine additional parcels were acquired from private landowners in the 1940s and 1950s. Three runways, hangar 13, and the airport administration building were built in 1939–1940. Hangars 4 and 6 and the Strawberry Point (SP) hangar were completed in 1940–1941. In 1975, Martin Marietta Corporation transferred the properties that currently make up MSA to the State of Maryland.

In July 1955, the Maryland Air National Guard 104$^{th}$ Tactical Fighter Group began leasing property in the northwestern portion of MSA from the Glenn L. Martin Company. On April 1, 1960, the 135$^{th}$ Tactical Airlift, previously based in Baltimore, transferred to MSA, and by October 1962, the 104$^{th}$ Tactical Fighter Group had been reorganized and designated the

175th Tactical Fighter Group. The Glenn L. Martin Company consolidated with American Marietta Corporation in September 1961 to form the Martin Marietta Corporation.

A 1959 Factory Insurance Association map of the Main Terminal Area (Tetra Tech, 2010a) shows activities within the hangars, as well as utilities, oil-burning equipment, and petroleum storage facilities. The map also shows cross-sectional views of the hangars. Hangars 1–6 are shown with dimensions and layouts approximately consistent with their current configuration. Concrete aprons are shown along the northeastern edge of hangars 1–3, and along the southeastern edge of hangars 4–6. Fueling stations, each containing five 5,000-gallon underground storage tanks (USTs), are shown on opposite sides of the concrete aprons.

Other petroleum storage areas outside the hangars are also noted on the 1959 map. A fueling pit and defueling pit are shown near the northernmost corner of hangar 1, next to two fuel-oil USTs. Two USTs are also shown near the southern corner of hangar 3, while hangars 4 and 6 housed two fuel oil USTs. The 1959 map also shows a propeller cleaning area at hangar 1, a parachute drying area at hangar 4, and a machine gun cleaning and assembly area.

### 2.1.3 Current Conditions

The Maryland Aviation Administration (MAA) currently operates MSA on behalf of the Maryland Department of Transportation (MDOT). MSA occupies the administration building (Main Terminal building), aircraft hangars, a 7,000-foot long runway, several taxiways, and the Maryland state police hangar. MAA manages more than 130,000 square feet of heated hangar space and 190 smaller aircraft hangars. The southwestern portion of MSA contains numerous aboveground fuel storage tanks for Jet A and Avgas 100LL fuels. MSA is also home to more than 20 commercial tenants that provide fuels and lubricants, helicopter avionics repair, and flight instruction. MSA also hosts Baltimore County police aviation and marine units and the Glenn L. Martin Museum (MAA, 2009).

### 2.1.4 Land Use

MSA is generally characterized as a moderately developed tract in a largely suburbanized, moderate-density populated setting. Land use surrounding MSA is a combination of mixed suburban, industrial, and commercial lightly-to-moderately developed tracts and woodland tracts (see Figures 1-1 and 1-2). MSA is bordered on the north by Eastern Boulevard

(Maryland Route 150) and an AMTRAK railroad line. Undeveloped woodland tracts and low-density residential properties are north of Eastern Boulevard and the AMTRAK line. MSA's eastern, southern, and western boundaries are bordered by Frog Mortar Creek and Stansbury Creek. Lockheed Martin Corporation's (Lockheed Martin's) Middle River Complex lies along MSA's northwestern boundary. Low-to-medium density residential and light-commercial land uses (e.g., shopping centers, convenience stores, restaurants, etc.) characterize properties beyond the creeks east, south, and west of MSA. The high-density residential community of Bengies Corner lies farther east of MSA, and Hawthorne Park (another high-density residential community) lies farther west. The town of Middle River is approximately 1.5 miles northwest of MSA.

### 2.1.5 Climate

The climate at MSA is characterized as humid temperate, with hot, humid summers and relatively mild winters. The Middle River, Maryland area receives an average of 42 inches of precipitation annually (according to the National Oceanic and Atmospheric Administration website), distributed evenly throughout the year. Rainfall normally occurs in the summer as showers and thunderstorms. In winter, precipitation is typically light to heavy rainfall or snow. Tropical storms in late summer and fall and occluded, meso-scale frontal systems (i.e., coastal low pressure systems) in winter and spring occasionally provide short-term above-average precipitation.

### 2.1.6 Physiography

MSA is in the western shore of the Coastal Plain physiographic province. The Coastal Plain consists of sediments composed of alluvium from the Pleistocene Epoch and the Potomac Group from the Cretaceous Period. The Coastal Plain sediments begin at the Fall Line and follow a regional dip to the southeast at approximately 110 feet per mile (Hansen and Edwards, 1986). The Fall Line is the division between the Piedmont and Atlantic Coastal physiographic provinces; it refers to an imaginary line connecting waterfalls or changes in stream flow between the hard-rock upland areas of the Piedmont and the unconsolidated-sediment lowland areas of the Coastal Plain. The Coastal Plain is generally characterized by low topographic relief. However, steep embankments and hills are found along stream channels, rivers, and the Chesapeake Bay.

### 2.1.7 Topography

Most of MSA's land surface is generally flat to gently sloping in the areas of the runway, taxiways, and surrounding support operations. The runway forms a northwest–southeast trending topographic ridge, or drainage divide, that slopes gently from the northwest end to the southeast end. Runway elevations range from slightly more than 20 feet above mean sea level (msl) at the northern end of the runway to slightly more than 10-feet above msl at the southern end of the runway. The land slopes away from the runway toward Frog Mortar Creek to the northeast and Stansbury Creek to the southwest. The Main Terminal Area is southwest of Taxiway Tango (labeled as "Taxiway T" on Figure 1-2). Site topography ranges from flat to gently sloping north, east, and south of hangars 1–6, and steeply sloping alongside the administration building and hangars.

### 2.1.8 Surface Water Hydrology

The eastern, southern, and western boundaries of MSA are bordered by Frog Mortar Creek and Stansbury Creek, which are wide, brackish, tidal tributaries of the middle Chesapeake Bay. Surface water runoff from MSA enters these creeks via localized gullies in the eastern and western undeveloped portions of the site, or via storm sewers that drain the airport runway, taxiways, and developed portions of the facility. MSA encompasses 47 drainage areas in three watersheds, forming a total drainage area of 700 acres (MAA, 2008). The airport drainage areas range from seven acres to more than 170 acres.

Surface drainage from the Main Terminal Area is discharged via multiple outfalls into Dark Head Cove. Outfall 07 has a drainage area of 30 acres and drains runway access, parking, commercial tenant buildings, private tenant hangars, and a wetland-mitigation site. The drainage area also includes grassy surfaces along Wilson Point Road and Strawberry Point Road. Impervious areas include taxi lane B and aircraft and vehicle parking areas. The airport's wetland-mitigation site and bordering vegetated areas cover this drainage area. Outfall 07 is at the exit of an existing 24-inch storm drain system. The outfall is monitored monthly for potential oil discharges to surface water. Secondary containment drains are also routinely inspected and emptied of storm water.

All storm water runoff originating from MSA discharges to outfall areas specified in the facility's general National Pollutant Discharge Elimination System (NPDES) permit No. MDR 05501,

"General Discharge" permit No. 05-SF-5501. The permit has an effective date of November 12, 2004 and expired on November 12, 2009. However, the Maryland Department of the Environment (MDE) has administratively extended the current permit and it remains in effect until MDE issues a new general permit.

The site's general industrial permit has no monitoring requirements. However, limited monitoring is performed as part of the "Municipal Separate Storm-Sewer System" permit issued by the City of Baltimore and required under NPDES (40 Code of Federal Regulations [CFR] Part 122) as part of the Illicit Discharge Detection and Elimination program. This limited monitoring includes laboratory analysis for ammonia, dissolved oxygen, surfactants, fecal coliform, potassium, water temperature, conductivity, pH, and fluoride concentrations; analysis is done in monitored outfalls during annual inspections. Visual inspections are performed routinely and annual reports are submitted to MDE.

### 2.1.9 Geology and Hydrogeology

MSA is in the western shore of the Coastal Plain physiographic province. Regional and local studies (Vroblesky and Fleck, 1991; Chapelle, 1985) indicate that the MSA lies on the Patapsco Formation, which consists of complex and interbedded mixtures of gray, brown, and red sands, silts, and clays originating from sediment deposition in a low coastal plain traversed by low-gradient meandering streams. Below the Patapsco Formation lies a regionally extensive, thick, clay confining-unit known as the Arundel Formation. This massive and probably impermeable unit underlies the site and surrounding area, outcrops northwest of the site, and dips and thickens to the southeast. The Arundel Formation extends as far east as Cambridge, Maryland, where it is more than 600 feet thick.

Regional lithologic information suggests that the Arundel Formation may be 150 feet thick at MSA (Vroblesky and Fleck, 1991; Chapelle, 1985). The formation probably acts as an impermeable barrier to the downward movement of any constituents found in the surficial-aquifer. The base of the Arundel Formation (i.e., the top surface of the deeper Patuxent Formation) is approximately 225-feet below msl near MSA (Vroblesky and Fleck, 1991; Chapelle, 1985). Consequently, the depth to the base of the Arundel Formation may range from 235–255-feet below grade at MSA.

Below the Arundel Formation is the Patuxent Formation. The multi-aquifer Patuxent Formation comprises various interbedded sand and silt/clay layers, with abrupt changes of deposited material types over short distances. Permeable, sand-rich units range from bounded sand sheets to isolated sand bodies (Glaser, 1969). In the MSA area, potentiometric maps of the formation indicate that groundwater flows to the south and southwest, responding to industrial wells withdrawing water southwest and west of the site (Chapelle, 1985 and Curtin, 2006).

### 2.1.10 Vicinity Subsurface Conditions

An extensive, ongoing, subsurface investigation has been conducted at MSA's Dump Road Area, located east of the Main Terminal Area and adjacent to Frog Mortar Creek. Less extensive environmental investigations have been conducted at SP and Greater Strawberry Point (GSP), located southeast of the Main Terminal Area. As part of the Dump Road Area investigation, numerous shallow and deep soil-borings have been advanced to collect soil samples for subsurface lithologic information. Synoptic water levels, single-well permeability tests, and pumping tests were conducted to characterize the subsurface hydraulic conditions at the Dump Road Area.

Studies at the Dump Road Area (Tetra Tech, 2010c) indicate that the subsurface hydrogeology consists of a surficial aquifer (i.e., the Patapsco Formation) containing highly heterogeneous mixtures of unconsolidated sand, silt, gravel/sand mixtures, and clay. A layer of fill consisting of heterogeneous sand, silt, and clay overlies these native sediments. For data evaluation and correlation, the surficial aquifer was divided into the upper, intermediate, and lower surficial-aquifer zones. The lower surficial-aquifer zone was encountered up to approximately 45–73 feet below msl and overlies at least several feet of stiff, dense clay. In a recent lithologic study of the area beneath the lower surficial-aquifer in the Dump Road Area (Tetra Tech, 2009), data from four deep wells indicate clay layers six to 40 feet thick, as well as alternating sand and silt aquifers and clay aquitards, referred to as deep confined-aquifer zones.

## 2.2 PREVIOUS INVESTIGATIONS

### 2.2.1 Preliminary Assessment

Numerous environmental investigations have been conducted at the Dump Road Area, SP area, and GSP area, beginning with MDE's preliminary assessment in 1989 that identified areas of

concern near a sand pit under the current Taxiway Tango. This area had reportedly been used by the Glenn L. Martin Aircraft Company from the 1930s through the 1950s to dump spent battery acid, acid-type strippers, and other acidic solutions, as well as dredge spoils and construction debris (MAA, 2009). In 1956, a second pit was constructed closer to Frog Mortar Creek, and the first pit was filled during construction of Taxiway Tango. These areas became subject to the federal Resource Conservation and Recovery Act regulations which were in effect at the time of the preliminary assessment. In addition, at the time of the preliminary assessment, the United States Environmental Protection Agency (USEPA) evaluated the sand pits near Taxiway Tango to assign a possible hazard ranking for further evaluation under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). At that time, USEPA found no signs of waste disposal, and the site was classified as "No Further Remedial Action Planned" under CERCLA (MAA, 2009).

In July 1991, four drums were uncovered during installation of underground electric cables adjacent to Taxiway Tango and north of the Main Terminal Area. These drums contained dried zinc-chromate paint and were removed by the MAA. The discovery of these drums, and subsequent environmental sampling indicating chemical impacts to soil and groundwater, are the basis of the additional investigations being conducted at the Dump Road Area to date.

### 2.2.2 Main Terminal Environmental Evaluations

Investigations directly related to the Main Terminal Area include the *Environmental Evaluation Report for Martin State Airport Main Terminal* (Tetra Tech, 2010a) and the *Environmental Evaluation Addendum for Martin State Airport Main Terminal* (Tetra Tech, 2010b). These evaluations concentrated on environmental impacts to the site resulting from practices carried out during the period 1929–1975, when the Glenn L. Martin Company and Martin Marietta owned and operated on the property. Possible areas of environmental concern at the Main Terminal Area were identified through historical aerial photographs, facility records, local and federal library documents, museum records, regulatory data, environmental database reviews, interviews with former employees, and locating and reviewing environmental reports and data.

Several recognized environmental conditions (RECs) were identified at the site, based on the presence or likely presence of hazardous substances and/or petroleum products under conditions that could indicate a historical, existing, or potential release to the property's structures, soil,

groundwater, or surface water. The environmental evaluation identified nine RECs (RECs #1–9) and five potential RECs (RECs #10–14) in the Main Terminal Area. The addendum report (Tetra Tech, 2010b) identifies eight additional RECs (RECs #15–22) and provides supplemental details on 10 of the initial RECs and possible RECs. Additional information obtained during development of the addendum report led to upgrading potential REC #14 to a full REC, due to discovery that an UST that had once been at this location. Locations of the Main Terminal Area RECs, exclusive of potential RECs #10–13, are shown in Figure 2-1.

Four RECs pertain to former aircraft fueling operations (RECs #1–4). Two other RECs were identified in connection with former hangar operations before 1975 (RECs #5 and 6), and another four RECs relate to former heating equipment and related oil storage facilities for the hangars (RECs #8, 9, 14, 15, and part of REC #3). REC #7 pertains to a historical missile-engine testing area. REC #18 is associated with testing operations conducted in the hangars. RECs #16 and 17 were identified because it is possible these areas may have stored, disposed of, or used solvents and petroleum products. Part of REC #19 and REC #20 are associated with equipment housed in the hangars, and part of REC #19 and REC #21 relate to historical site operations in the hangars. REC #22 relates to the materials and operations involved in cleaning and drying parachutes, although the exact nature of those materials and operations remains unclear. The following sections detail the RECs identified by the environmental evaluations.

#### 2.2.2.1 REC #1—Former Fueling Station "A" at Hangar 1 Apron

This REC area contained five 5,000 gallon USTs historically used to store gasoline or aviation fuel. Presumably, a fuel-pump island or similar dispensing equipment was also at this site. A 1977 letter from MDOT, which presented their initial spill prevention control and countermeasures plan (SPCCP; MDOT, 1977) to MSA, indicates that the north ramp fuel storage area had 14 USTs at that time. Whether the fuel storage area referenced in the 1977 SPCCP is consistent with fueling station "A" is unclear. No tank closure or removal records for the fueling station USTs were identified. No evidence of former fueling station "A" was identified during site reconnaissance. Former fueling station "A" is designated as a REC due to the unknown status of the USTs, their age (installed before 1942), and the possibility that a release may have occurred during refueling.

### 2.2.2.2 REC #2—Former Fueling Station "B" at Hangar 6 Apron

The 1959 facility drawing shows former fueling station "B" approximately 295 feet east-southeast of the center of hangars 4–6, just beyond the concrete apron present at that time (currently, the edge of the asphalt pavement). This area contained five 5,000-gallon USTs storing gasoline or aviation fuel. Presumably, a fuel-pump island or similar dispensing equipment was also at this site. As noted above, a 1977 SPCCP letter indicates that the north ramp fuel storage area had 14 USTs at that time (MDOT, 1977). Whether the fuel storage area referenced in the 1977 SPCCP is consistent with fueling station "B" is not clear from the records reviewed. No tank closure or removal records for the fueling station USTs were identified. However, during site reconnaissance, the asphalt surface at this location was found to be compromised, which may reflect the location of the former UST system. The former fuel station "B" is considered a REC due to the unknown status of the USTs, their age (installed before 1942), and the possibility of historical releases during refueling.

### 2.2.2.3 REC #3—Former Fueling and Defueling Pits and Fuel Oil USTs at Hangar 1

The 1959 facility drawing shows the former fueling and defueling pits approximately 50 feet northeast of the northern corner of hangar 1. Two fuel-oil USTs, (1,000- and 10,000-gallon) are shown adjacent to the fuel pits. No tank closure or removal records for these fuel-oil USTs were identified. An active UST system, capped with a concrete pad, was identified during site reconnaissance in the approximate location of the former fueling and defueling pits. An asphalt patch was observed surrounding the concrete pad; it may reflect the location of the former fueling and defueling pits. The hangar 1 fueling and defueling pits and nearby USTs are considered a REC due to the unknown status of the USTs, their age (installed before 1942), and the possibility of historical environmental releases.

### 2.2.2.4 REC #4—Hangar 3 Historical Gasoline USTs

The 1959 facility drawing shows two gasoline USTs (1,000- and 2,000-gallon) near the southern corner of hangar 3. An architect's drawing by Albert Kahn Associates, dated April 18, 1941 and updated in November 1945, shows two 4,000-gallon gasoline USTs at this location (Tetra Tech, 2010a). A February 1979 letter from MDE to MAA indicates that the gasoline USTs at hangar 3 have probably leaked (Tetra Tech, 2010a). No tank closure or removal records for

these USTs were identified. A depression in the ground and a monitoring well were identified near the apparent location of the former USTs. The hangar 3 historical gasoline USTs are considered a REC due to the unknown status of the USTs, their age (installed before 1945), and the possibility of historical releases.

#### 2.2.2.5 REC #5—Hangar 1 Former Propeller Cleaning Area

The 1959 facility drawing shows a propeller hoist and cleaning area in the northwest corner of hangar 1. Although records documenting the dates or details of these activities are not available, industrial detergents, solvents, and dip tanks were typically used to clean propellers. Although a 2008 SPCCP letter reports that the hangars had no floor drains, trench drains are currently located at the garage-bay openings. No evidence of the former propeller cleaning operations was noted during site reconnaissance; the area is currently used for storage. No cracks or floor drains were observed in the concrete floor; however, the floor may have been recoated. The former propeller cleaning area is considered a REC due to the possibility of historical solvent spills and possible seepage through historical subsurface structures (e.g., trench drains, utilities, etc.).

#### 2.2.2.6 REC #6—Hangar 4 Former Machine Gun Cleaning and Assembly Area

The 1959 facility drawing shows a machine gun cleaning and assembly operation in Hangar 4. Although records documenting the dates or details of these activities are not available, industrial detergents, solvents, and dip tanks may have been used to clean guns. The probable location of the former machine gun cleaning area was identified during site reconnaissance, but the area could not be inspected because it is currently occupied by an urgent-care medical facility. The former machine gun cleaning area is considered a REC due to the possibility of historical releases of solvents, and the possible presence of heavy metals and explosive compounds related to this operation.

#### 2.2.2.7 REC #7—Missile Engine Test Area Circa 1959

The 1959 facility drawing shows a missile-engine test area at the northern end of the taxiway, exiting the southern end of the apron east of hangars 4–6. The 1959 drawing shows the test area as approximately 70 by 20 feet, located approximately 230 feet east–southeast of the southeastern corner of hangar 6. Although records documenting the dates or details of activities are not available, propellants and explosive compounds may have been released in this area. This

area was identified during site reconnaissance; it has a concrete pad consistent with other missile-engine testing facilities. This area is considered a REC due to the possible release of propellant and combustion byproducts.

#### 2.2.2.8 REC #8—Hangar 2 Heating Room/Boiler

The condition and status of the hangar 2 boiler room could not be determined from available records. However, oil-burning equipment was used in this area for approximately 35 years during Lockheed Martin's tenancy. Deterioration or replacement of this equipment during this period is likely. The fuel source for this boiler is assumed to be the fuel oil USTs defined as part of REC #3. A release of 800 gallons of fuel oil in this boiler room was reported in February 2005 during removal or replacement of a pipe section, supporting the conclusion that the equipment had deteriorated (MAA, 2008). This area could not be located during site reconnaissance because access was not available. This area is considered a REC due to the documented 2005 fuel oil release, the possibility of other oil releases, and the room's unknown status.

#### 2.2.2.9 REC #9—Hangars 4 and 5 Heating/Boiler Rooms

The condition and status of the hangar 4 and 5 boiler rooms could not be determined from available records. However, oil-burning equipment was operated in these rooms for approximately 35 years during Lockheed Martin's tenancy, and deterioration or replacement of the equipment during this time is likely. The hangar 5 heating/boiler room could not be located during site reconnaissance because access was not available. The heating/boiler room in hangar 4 was located during site reconnaissance, and remains in operation. The fuel source for the hangar 4 and 5 boilers is assumed to be the fuel oil USTs described under REC #15, below. The heating/boiler rooms in hangars 4 and 5 are considered a REC because fuel oil releases during operation and maintenance of this equipment were possible, and because of the room's unknown status.

#### 2.2.2.10 Potential REC #10 Maintenance Storage

This building may have contained materials associated with activities that would normally require the storage of petroleum, oil, or lubricant products. Other hazardous substances that may have been stored at this facility include antifreeze/coolant, cleaning solvents, parts washers,

detergents, and herbicides. This location is considered a potential REC due to the absence of any records of the contents of this facility or its dates of use.

#### 2.2.2.11 Potential REC #11—Organic Material Storage Shed

This building may have contained hazardous substances. The condition of the building at the time of demolition is unknown. This location is considered a potential REC.

#### 2.2.2.12 Potential REC #12—Surplus Storage Shed

This building may have contained hazardous substances. The condition of the building at the time of demolition is unknown. This location is considered a potential REC due to the absence of any records regarding the contents of this facility or its dates of use.

#### 2.2.2.13 Potential REC #13—Plating Material Storage

This building may have contained hazardous substances. The condition of the building at the time of demolition is unknown. This location is considered a potential REC due to the absence of any records regarding the contents of this facility or its dates of use.

#### 2.2.2.14 REC #14—MAA Self Fueling Station and Historical Oil UST

The current MAA self-fueling station was identified as a potential REC (Tetra Tech, 2010a) because this fueling station may have been used before 1975. Additional records searched in preparation of the addendum report (Tetra Tech, 2010b) include the April 18, 1941, architect's drawing by Albert Kahn Associates (updated in November 1945) showing a 1,000-gallon oil UST at this location. Potential REC #14 has been upgraded to a REC due to the historical presence of a UST at this location and its unknown status.

#### 2.2.2.15 REC #15—Former Fuel Oil USTs at Hangar 6

The 1959 facility drawing shows two fuel oil USTs (1,000- and 10,000-gallon) approximately 80 feet southeast of the southern corner of hangar 6. No tank closure or removal records for these fuel oil USTs were identified. A concrete drum-storage area was identified near the former fuel oil USTs during site reconnaissance. In addition, what are apparently vent pipes were observed on the southern exterior wall of hangar 6, near the location of the former fuel oil USTs. The hangar 6 former fuel oil USTs are considered a REC due to the unknown status of the USTs, their age (installed before 1959), and the possibility of historical releases.

### 2.2.2.16 REC #16—Hangar 2 Oil Room

Specific operations in this room could not be determined through historical site research. However, as the name of the room indicates, petroleum products were either stored or used in this room. The former oil room is currently used by a metal fabrication company. No cracks or floor drains were identified in the concrete floor of these areas during site reconnaissance; however, this floor may have been recoated. This area is considered a REC due to the possible presence of petroleum products and possible pathways to the subsurface (e.g., possible historical cracks and floor drains).

### 2.2.2.17 REC #17—Hangar 2 Solvent Booth

Specific operations in this room could not be determined during historical site research. However, the use or storage of solvents in this room is likely, as its name implies. The former solvent-booth is currently used by a metal fabrication company. No cracks or floor drains were identified in the concrete floor of these areas during site reconnaissance; however, this floor may have been recoated. This area is considered a REC due to the possible presence of solvents and possible pathways to the subsurface (e.g., possible historical cracks and floor drains).

### 2.2.2.18 REC #18—Hangar 2 Radar and Shielded Rooms

Specific operations in these rooms could not be determined during historical site research. The former radar room is currently used as an office and shop. The former shielded-room could not be inspected because access was not available during the October 14, 2010 site reconnaissance. Carpeting was found in the former radar room, so the presence of cracks or floor drains in the subfloor is unknown. This area is considered a REC due to the lack of information pertaining to its historical use.

### 2.2.2.19 REC #19—Hangar 3 Washing Area and Rotating Lift

Specific operations in this room could not be determined through historical site research; however, the suspected use of the area was to wash parts and equipment. Furthermore, the rotating lift is suspected of having used hydraulic oil in its operation. The approximate location of the rotating lift was identified during site reconnaissance. It is currently used for storage. Access to the washing area was not available. This area is considered a REC because transport of hazardous substances and/or petroleum products to the subsurface may have occurred, possibly

via wash water through historical cracks and floor drains, and due to the likely use of hydraulic oil in the rotating lift.

#### 2.2.2.20 REC #20—Hangar 3 Compressor and Motor Room

Maintenance schedules or details of the equipment that was or may still be present at this location were not available during historical site research; however, routine maintenance and equipment malfunctions may have occurred when this equipment was in use. Access to this area was not available during site reconnaissance. This area is considered a REC because petroleum products could have been released from this equipment during routine maintenance and equipment malfunctions.

#### 2.2.2.21 REC #21—Hangar 5 Painting/Stripping Area and Acid-Neutralization System

Details regarding chemicals used in this area were not identified through historical site research; however, solvents and industrial detergents were probably used in the stripping area. Furthermore, the acid-neutralization system may have used some type of caustic material in its process. The acid-neutralization system was in the basement of hangar 5 and appears to have been connected via piping to the main level, where the painting and stripping areas were located.

Floor drains or cracks were not observed in the main level of hangar 5; however, an employee noted that water had previously been observed leaking from the main level into the basement. Floor drains were observed in the area of the former acid-neutralization system. The main level and basement of hangar 5 are currently used as an aircraft hangar and storage/utility room, respectively. This area is considered a REC because deteriorating piping may have leaked in the past, resulting in a release of solvents, industrial detergents, and caustic materials into the subsurface via basement-floor cracks and drains. Releases may also have occurred via surface runoff from the main level, and from faulty equipment.

#### 2.2.2.22 REC #22—Hangar 4 Parachute Drying Area

The 1959 facility drawing shows a parachute drying area in the basement of hangar 4. No details were obtained during historical site research regarding the cleaning methods used. Parachutes were most likely cleaned with an unknown product and then air-dried in the basement of hangar 4. The approximate location of the parachute drying area was identified during site reconnaissance, but the area could not be inspected because it is currently occupied by an

urgent-care medical facility. This area is considered a REC due to the lack of records concerning the cleaning methods used and to the engineered controls used in the drying method.

### 2.2.3 Main Terminal Phase II Investigation (2011)

The 2010 Main Terminal environmental evaluations, the records search, historical review, and site visits confirmed the presence of 18 RECs and four potential RECs within the Main Terminal Area (Tetra Tech, 2010a and 2010b). The May–July 2011 Phase II investigation included surface and subsurface explorations and testing to evaluate the presence of hazardous substances that may have been placed, leaked, or spilled in Main Terminal Area RECs #1–9 and #14–22 by historical operations (Tetra Tech, 2012).

A Phase II investigation was completed at the Main Terminal Area from May through July 2011, in accordance with the investigation work plan (Tetra Tech, 2011). Phase II activities consisted of surface and subsurface explorations and testing to investigate possible impacts from historical operations at 18 different RECs in the Main Terminal Area. Geophysical surveys were performed to locate USTs and other UST-related appurtenances (e.g., piping, sumps, etc.) in the areas of RECs #1–4, 7, and 14–15. Active soil-gas sampling was conducted at 25 locations throughout the Main Terminal RECs, exterior to the hangar structures. Soil gas samples were analyzed for volatile organic compounds (VOCs). Membrane-interface probe (MIP) profiling was completed at 25 locations near standalone RECs (e.g., RECs #1, 2, 4, 7, 14, and 15), and RECs near hangars 1–6, to investigate the possible presence of VOCs and petroleum hydrocarbons that may have been released to subsurface soils and groundwater from fuel USTs and hangar operations.

Sixteen soil borings were also advanced throughout these areas, and soil samples were collected and analyzed for VOCs, semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), total priority pollutant metals (including mercury), total petroleum hydrocarbon (TPH)-gasoline-range organics (GRO), and TPH-diesel-range organics (DRO). MIP profiles, soil gas results, and soil boring observations led to the installation of six shallow groundwater monitoring wells (MT-MW01S through MT-MW06S) to monitor groundwater quality in the areas of the standalone RECs around the perimeters of hangars 1–6. Groundwater samples from the six newly installed monitoring wells were analyzed for VOCs, SVOCs, 1,4-dioxane, PCBs, TPH-DRO, TPH-GRO, total and dissolved priority pollutant metals, perchlorate, and hexavalent chromium.

The 2011 Phase II results indicated petroleum hydrocarbon impacts to subsurface media in the area of REC #3, the former fueling/defueling pits, and fuel-oil underground storage tanks at the northwestern corner of hangar 1 (see Figure 4-6 of the *Supplemental Main Terminal Phase II Site Investigation Report* [Tetra Tech, 2012]). MIP screening results at MT-MIP04 indicated elevated petroleum hydrocarbons in the subsurface at depths from four to 30 feet below grade. GROs ranging from 2,480–9,710 micrograms per kilogram (µg/kg) were also detected in soil samples collected at MT-SB01 (to the north, at REC #1) and MT-SB02 at depths of six and 12 feet below grade. At REC #3 monitoring well MT-MW02S, detected concentrations of TPH-DRO and TPH-GRO (4,900 and 1,540 micrograms per liter [µg/L], respectively) exceeded their MDE comparison criteria, and benzene (50.5 µg/L) exceeded its MDE standard of 5 µg/L.

The results of the Phase II investigation also indicate petroleum hydrocarbon impacts to subsurface media in the area of REC #2. MIP screening results indicating highly elevated levels of petroleum hydrocarbons were detected at depths of 3.5–16 feet below grade at MT-MIP22 and MT-MIP23. GROs ranging from 2,270–3,330 µg/kg were also detected in soil samples collected at MT-SB15 at depths of six and 14 feet below grade. The MIP readings and TPH concentrations in soil are similar to levels reported for locations at REC #3. A groundwater monitoring well was not installed in the REC #2 area during the 2011 Phase II investigation.

At REC #15, elevated levels of petroleum hydrocarbons were detected in the subsurface at depths from 5.5 to 29 feet below grade, based on MIP screening results at MT-MIP16. Petroleum hydrocarbons were not detected at significant levels in a monitoring well installed approximately 100 feet downgradient (MT-MW04S). The 2011 Phase II results also indicate petroleum hydrocarbon impacts to subsurface media in the areas of RECs #9 (hangars 4 and 5 former boiler rooms) and #21 (hangar 5, the former painting, stripping and acid-neutralization area). Two MIP results (MT-MIP19 and MT-MIP20) at these RECs indicate elevated petroleum hydrocarbon levels in the subsurface soil at depths from 10–31 feet below grade. Petroleum hydrocarbon (as TPH-GRO) concentrations in soils ranging from 1,700–7,090 µg/kg were detected at depth (six to 20 feet below grade) in borings MT-SB13 and MT-SB14. These concentrations are similar to those reported for soil samples at REC #3. No groundwater monitoring wells were installed near hangar 5 REC areas during the 2011 Phase II investigation.

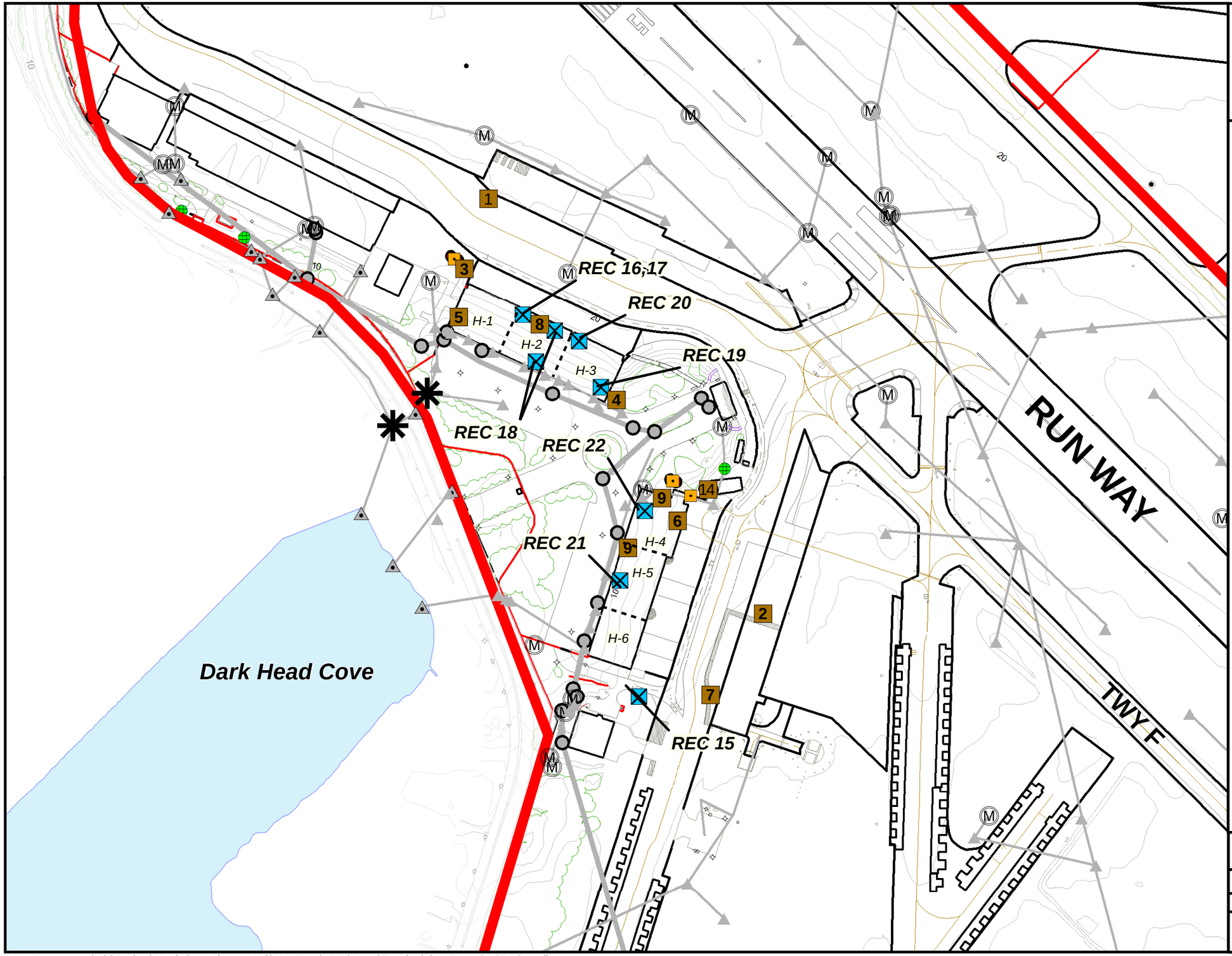



**FIGURE 2-1**

**RECOGNIZED ENVIRONMENTAL CONDITIONS AT MSA MAIN TERMINAL**

**Legend**

- REC Identified in Main Terminal Environmental Evaluation Report (Tetra Tech, 2010)
- Addendum REC
- TTNUS MSA 2008 Wells
- MTN_Infiltration_Trenches
- MSA Inlets
- MSA Manholes
- MSA Outfalls
- Sediment_Basin
- Trench Drain
- Sanitary MH
- MTN_Tanks
- MTN_WellsPipes
- Sanitary Pipes
- Storm Pipes
- Subject Property Boundaries
- Current Structures
- Electric Utilities
- H-1 Hangar No.

MSA – Martin State Airport
UST - Underground Storage Tank
MTN – Main Terminal
REC – Recognized Environmental Condition
MH - Manhole
TT- Tetra Tech

REC # REC Name
REC 1 - Former Fueling Station "A" near Hangar 1
REC 2 - Former Fueling Station "B" near Hangar 6
REC 3 - Former Fueling/De-Fueling Pits and Fuel Oil USTs at Hangar 1
REC 4 - Hangar 3 Historical Gasoline USTs
REC 5 - Hangar 1 Former Propeller Cleaning Area
REC 6 - Hangar 4 Former Machine Gun Cleaning/Assembly Area
REC 7 - Missile Engine Test Area c. 1959 (estimated location)
REC 8 - Hangar 2 Heating Room/Boiler
REC 9 - Hangar 4 and 5 Heating/Boiler Rooms
REC 14 - Current MAA Self-Fueling Station and Former 1,000 - gal oil UST
REC 15 - Hangar 6 Former Fuel Oil USTs
REC 16 - Hangar 2 Oil Room
REC 17 - Hangar 2 Solvent Booth
REC 18 - Hangar 2 Radar/shielded Rooms
REC 19 - Hangar 3 Washing Area/Rotating Lift
REC 20 - Hangar 3 Compressor/Motor Room
REC 21 - Hangar 5 Painting/Stripping, and Acid Neutralization Areas
REC 22 - Hangar 4 Parachute Drying Area

***Main Terminal***
***Lockheed Martin, Martin State Airport***
***Middle River, Maryland***

0 100 200 400 Feet

N

DATE MODIFIED: 3/1/12

CREATED BY: MP

**Tetra Tech, Inc.**

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# Section 3
# Investigation Approach and Methodology

Information obtained during the 2010 environmental evaluations (i.e., the records search, historical review, and site visits) confirmed the presence of 18 recognized environmental conditions (RECs) and four potential RECs within the Main Terminal Area of Martin State Airport (MSA) (Tetra Tech, Inc. [Tetra Tech], 2010a and 2010b). The Phase II investigation conducted during May–July 2011 included surface and subsurface explorations and testing to evaluate the presence of hazardous substances that may have resulted from historical operations; past practices may have resulted in hazardous substances being placed, leaked, or spilled in RECs #1–9 and REC #14–22 of the Main Terminal Area. The following Phase II supplemental activities were conducted from April through August 2012:

- obtained utility clearances and associated permits for intrusive investigations from Lockheed Martin, MSA, and Maryland Aviation Administration (MAA) (as applicable)
- advanced five soil borings to a terminal depth of 25 feet below ground surface and collected soil samples using direct-push technology (DPT) for chemical analyses. The proposed soil boring locations were selected based on a review of soil gas and membrane-interface probe (MIP) data collected in connection with the RECs (RECs #2, 3, 9, and 21) evaluated in the 2011 Phase II investigation. Soil samples were also collected for chemical analyses.
- installed six two-inch-diameter groundwater monitoring wells using a low-profile mini-sonic rig
- collected and analyzed groundwater samples and obtained water levels from the six new wells and the six wells installed in 2011
- surveyed soil boring and monitoring well locations using a Maryland-licensed surveyor
- collected, stored, and characterized investigation-derived waste (IDW) and disposed of the waste at an off-site Lockheed Martin-approved treatment or disposal facility
- performed laboratory chemical analyses and chemical data validation on soil and groundwater samples

- evaluated environmental sampling data

These activities are described in detail in the following sections.

## 3.1 MOBILIZATION/DEMOBILIZATION

Following approval of the work plan (Tetra Tech, 2012), Tetra Tech conducted mobilization and demobilization activities, including:

- coordinating site access with Lockheed Martin and MSA facilities personnel
- obtaining utility clearance for the proposed soil borings and groundwater monitoring wells, using both Miss Utility and a private utility-locating firm, as described in Section 3.2
- mobilizing subcontractors, equipment, and materials to the site
- implementing the following:
    - a site-specific health and safety plan (HASP)
    - an emergency response plan
    - a sampling and analysis plan
    - a waste management plan conforming to Lockheed Martin's *Corporate Energy, Environment, Safety, and Health (EESH) Remediation Waste Management Procedure No: EROP-03 (Revision 4, effective April 17, 2009)* (Lockheed Martin, 2009)
    - a quality assurance/quality control plan
    - a data management plan
- designating a decontamination area
- demobilizing equipment and materials from the site at work completion
- site cleanup and trash removal at work completion
- restoring surfaces and repairing landscaping as necessary at work completion
- managing IDW, as described in section 3.3.6

The field operations leader coordinated mobilization and demobilization, purchasing and leasing equipment, and staging of equipment for efficient loading and transport to and from the site before and after each field activity. Before field operations began, Tetra Tech personnel reviewed

the site-specific HASP and the respective safe work permits included in the HASP. Tetra Tech conducted mandatory daily health and safety tailgate meetings before all field events. Subcontractors present for that day's field activities were included in these meetings. The field operations leader or their designee documented those in attendance and the topics covered.

## 3.2 SITE ACCESS, PERMITS, AND UTILITY CLEARANCE

Tetra Tech obtained required access agreements and permits and completed required utility-clearance activities before starting fieldwork. Site preparation included:

- notifying the underground-utility location center Miss Utility (1-800-257-7777; www.missutility.net)
- reviewing facility and site utility maps
- following Lockheed Martin Enterprise Operation 28 and the Lockheed Martin "digging authorization" form and obtaining the required signatures. Activities described in this report were not carried out on Lockheed Martin-owned or operated property, so signatures of Lockheed Martin representatives were obtained at the discretion of the approving personnel.
- Tetra Tech obtained required permits from the Maryland Aviation Administration (MAA) (airport zoning permit, building inspection permit, and the digging authorization permit) for the proposed work before beginning any drilling activities.
- obtained monitoring well permits
- contracted a private utility locating firm (Enviroscan, Inc. of Lancaster, Pennsylvania) to identify and mark any subsurface utilities/anomalies

Tetra Tech worked closely with MSA, MAA, and their tenants to make all parties aware of the field schedule. The project team conducted a site walk to observe current operations, structures, and ground conditions, including topography, vegetation, and ground-surface anomalies that could represent possible constraints on field activities.

Each drilling location was screened for subsurface utilities. In addition to calling in a Miss Utility ticket, Enviroscan, Inc. (Enviroscan) was contracted to mark any underground utilities and subsurface geophysical anomalies. Enviroscan used typical utility-locating equipment representing the best available technology, including a Fisher TW-6 electromagnetic pipe and cable locator/tracer, a Radiodetection® cable-avoidance tool (C.A.T.) and Genny pipe and cable locator/tracer, a Radiodetection® model RD4000 multi-frequency pipe and cable tracer, and a

GSSI SIR-2000 ground-penetrating radar (GPR) system. All utilities within a 30-foot radius of each designated location were located and marked with paint on the ground.

Soil boring and monitoring well locations were offset as necessary based on the location of subsurface utilities. Borings were located the minimum allowable distances from underground utilities, as stipulated in the HASP. Permits, the Miss Utility clearance, and the Enviroscan utility screening report are in Appendix A. Access to the Main Terminal Area was coordinated through MSA operations. Tetra Tech maintained radio communication with the MSA air traffic control tower during field activities regarding the daily field schedule.

## 3.3 FIELD METHODOLOGY

### 3.3.1 Soil Investigation

On July 9–10, 2012, Tetra Tech advanced five soil borings (MT-SB17 through MT-SB21) in targeted areas, including standalone RECs (e.g., RECs #2, 3, 9, and 21) and RECs near hangars 1, 4 and 5. Table 3-1 contains soil sampling details and rationales, and Figure 3-1 displays soil-sampling locations. Soil borings were drilled to a terminal depth of 25 feet below grade using a DPT drill-rig operated by a Maryland-licensed driller. Soil samples were collected continuously using a 1.5-inch-diameter, four-foot-long stainless-steel macro-core sampler fitted with a disposable acetate liner. The probe sampler was advanced to the target depth in four-foot increments. Retrieved soil samples were collected for soil screening, which included lithologic characterization and visual observations.

Soil samples were screened for volatile organic compounds (VOCs) using a portable photoionization detector (PID) and a consistent-headspace screening methodology (i.e., zip-top bag technique). The work plan specified collection of two soil samples for laboratory chemical analyses following field screening and visual inspection for possible contamination, such as staining, discoloration, and odors. Since no contamination was evident in any of the borings, soils from the depth interval near the ground surface (i.e., 0–2 feet) and the depth interval immediately above the groundwater interface (i.e., 8–10 feet) were submitted for laboratory chemical analyses. The groundwater table was determined by the moisture detected in the soil samples and from gauging nearby monitoring wells.

Backfilling the soil boreholes involved placing granular bentonite into the borehole annulus from the borehole bottom to the top of the soil matrix. The bentonite was hydrated using water from a local approved source (fire hydrant at MSA) to provide a low-permeability seal in the soil-boring annulus. In asphalt areas, the asphalt portion of the borehole was restored with an asphalt patch after the borehole backfilling/sealing were complete. The asphalt patch was finished smooth and flush with the existing grade. All pertinent information, including boring number, soil/lithology description, sample designation and depth, PID readings, sample collection time, etc., was recorded on boring-log and soil-sampling log sheets. Boring logs and soil-sampling log sheets are in Appendix B.

Eleven samples (two from each soil boring plus one additional sample for toxicity characteristic leaching procedure [TCLP] analysis) were collected and submitted to TestAmerica of North Canton, Ohio. Soil samples were analyzed for VOCs, semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), total metals (including mercury), total petroleum-hydrocarbon (TPH)-gasoline-range organics (GRO), TPH-diesel-range organics (DRO), and TCLP (one sample only), using the methods listed in Table 3-1. Trip blanks were used to monitor all shipments of VOC samples. No other quality assurance/quality control samples were collected in the field.

### 3.3.2 Groundwater Investigation

The groundwater investigation included the installation, development, and sampling of six shallow groundwater-monitoring wells (MT-MW07S through MT-MW12S) to further define the nature and extent of VOC and petroleum impacts identified in groundwater. These six new wells were installed based on the 2011 MIP profiles and analyses of groundwater samples collected in 2011 from the six existing wells (MT-MW01S through MT-MW06S). The six new wells were installed to assess the presence of chemicals possibly released from USTs or hangar operations, such as solvents, fuels, oils, or other hazardous chemicals, that may contaminate groundwater.

The groundwater monitoring well locations are presented in Figure 3-2. Table 3-2 presents additional details, and describes the rationale for the groundwater monitoring well installation and sampling program. The final locations of these wells were determined based on the locations of underground utilities and any airport permit restrictions. One well location (MT-MW08S) was offset approximately 10 feet north due to an automobile parked near the proposed location.

Groundwater samples from the new monitoring wells were submitted to an off-site laboratory for chemical analyses, as discussed in Section 3.3.5.5 and in Table 3-2.

#### 3.3.2.1 Borehole Drilling and Monitoring Well Installation/Construction

Monitoring well boreholes were advanced using a low-profile mini-sonic rig operated by a Maryland-licensed well driller to characterize groundwater conditions in the areas of study. The roto-sonic method used a four-inch by six-inch drill-rod/override-casing setup with temporary casing to install the monitoring wells to the desired depths. Soil was continuously sampled during drilling using a 5-foot-core barrel. Soil samples were collected for soil screening, including lithologic characterization, visual observation (e.g., staining, discolorations, etc.), and odor. Soil samples were screened for VOCs using a portable PID and a consistent-headspace screening methodology (e.g., zip-top-bag headspace technique). An experienced Tetra Tech field geologist logged lithologic data. All pertinent information, including boring location, soil/lithology descriptions, and PID readings, was recorded on a soil-boring log form (Appendix B).

Monitoring wells were constructed of two-inch-diameter, flush-threaded, schedule 40 polyvinyl chloride (PVC) well-casing and manufactured PVC well-screens. Well screens were between 10 and 20 feet long depending on the geology encountered, with 0.010-inch slotted or wire-wrapped openings. Approximately two feet of screen was installed above the top of the static groundwater surface to assess the possibility of light non-aqueous-phase liquids (e.g., floating petroleum product). A sand filter-pack of washed #1 filter sand was placed around and to a minimum of two feet above the top of the well screens.

Following placement of the sand pack, vibration from the roto-sonic head of the drill rig settled the sand pack around the well screens. The depth to sand was measured using a weighted tape. If settlement of the sand pack was noticed, additional sand was added to return the sand pack to the desired depth. A two-foot-thick bentonite seal was installed above the sand pack and hydrated during installation. Grout consisting of Type II Portland cement and powdered bentonite gel was placed above the bentonite seal to approximately two feet below the ground surface. Grout was made by mixing a ratio of one 94-pound bag of Type II Portland cement to nine pounds of powdered sodium-bentonite, and no more than eight gallons of water per bag of cement. The

relative thicknesses of the bentonite seal, the surface seal, and grout were adjusted to accommodate the well depth relative to ground surface.

A protective flush-mounted well cover was secured over the well casing to protect the monitoring well. The PVC well-casing was cut below grade and made watertight by installing a locking, expandable sanitary-seal in the well-casing top. At these locations, concrete was installed above the grout in the annular space between the well borehole and outer well casing, up to approximately six-inches below grade, to provide a surface seal for the monitoring well and support for the flush-mounted cover.

The top of the PVC well-casing was cut flat using an external PVC pipe cutter. The flat surface of the top of the well casing was surveyed by the land surveyor (see Section 3.3.6) and used to measure the depth to groundwater at the well. Monitoring well construction details were recorded in the field logbook and on well-construction forms, which are in Appendix B.

#### 3.3.2.2 Monitoring Well Development

Following well installations, each monitoring well was developed to remove fines from the well filter-pack and casing and to ensure a hydraulic connection between the well and the geologic formation. Wells were developed as soon as possible after installation, once a minimum of 24 hours had elapsed to allow the grout to set up. Monitoring wells were developed by hand bailing to remove heavy sediments and by gentle surging and purging with a submersible pump to remove fines and sediment from the sand pack and well screens. Development began at the bottom of the well screen, progressed to the top of the screened interval, and then incrementally back to the bottom of the well. Wells that did not produce sufficient water to allow sustained pumping (e.g., MT-MW09S) were only hand bailed.

During well development, water-level-drawdown measurements and groundwater parameters (including pH, temperature, specific conductance, dissolved oxygen [DO], and oxidation-reduction potential [ORP]) were collected periodically until pumping was complete and recorded in the appropriate site-specific logbook and on a well-development record. Water-quality parameters were measured using a water-quality meter. Water-turbidity readings were also collected using a separate turbidity meter and recorded in the field logbook and a well-development record.

Development was considered complete when the monitored water-quality parameters stabilized (in accordance with the description in the next paragraph), when three saturated well-casing volumes had been removed, or when the well had been purged dry. Well-development pumping/surging did not exceed two hours on any well. Well development logs are in Appendix B.

Stabilization was considered achieved when three consecutive readings, taken at five-minute intervals, were within ±0.1 standard units for pH, ±3% for specific conductance and temperature, ±10% for DO and ORP, and less than 50 nephalometric turbidity-units for turbidity. If a well was purged dry, the water level was allowed to recover a minimum of 80% of its initial static water level before reinitiating development. All development water was collected in United States Department of Transportation (USDOT)-approved 55-gallon steel drums that were staged in a location approved by MSA personnel.

#### 3.3.2.3 Synoptic Water-Level Measurements

Groundwater levels were measured on August 21–22, 2012 (during groundwater sampling) and on October 4, 2012 (during a full site-wide groundwater monitoring event) using an electronic water-level meter with gradations to 0.01-foot. Water level data provide information on groundwater flow characteristics for the lower surficial-aquifer. An audible tone, made once the meter's probe reached the air/water interface in the well, indicated that the depth to water had been reached, at which point the measurement on the water-level meter was recorded to the nearest 0.01 foot from the marked location on the top of the PVC well-casing.

Water-level measurements were recorded in the appropriate site-specific logbook and on a form for groundwater-level measurements. The total depth of each well was also recorded on this form when synoptic water-level measurements were collected. Groundwater levels were used to calculate groundwater elevations, which were then used to construct a groundwater contour map for the surficial aquifer. The October 4, 2012 water level records are in Appendix C, and the August 21–22, 2012 water level data are included on the groundwater sample record sheets in Appendix D.

#### 3.3.2.4 Monitoring Well Groundwater Sampling

Groundwater samples were collected from each of the six new monitoring wells (MT-MW07S through MT-MW12S) on August 21–22, 2012. In addition, the six monitoring wells (MT-MW01S through MT-MW06S) installed during the 2011 Main Terminal Phase II site investigation were sampled from April 23–25, 2012 as part of the MSA annual groundwater monitoring program. Data from these wells are included in this report and discussed in Section 4.2. Sampling was conducted using low-flow/purging methods and a submersible pump. Groundwater was withdrawn at flow rates of approximately 100 milliliters per minute.

The groundwater-quality parameters of pH, temperature, conductivity, ORP, DO, and turbidity were monitored using a Horiba U-52 water-quality meter and recorded every five minutes. Purging continued until these parameters stabilized. Stabilization was considered achieved when three consecutive readings were within ±0.1 standard unit for pH, ±3% for conductivity, ±10 millivolts for ORP, and ±10% for turbidity. All purged water was collected in USDOT-approved 55-gallon steel drums staged in an area approved by MSA facility personnel. Well purging and sampling records are in Appendix D.

#### 3.3.2.5 Groundwater Chemical Analyses

Groundwater samples from wells MT-MW07S through MT-MW012S collected on August 21-22, 2012 were analyzed for the following parameters (see Table 3-2):

- VOCs by SW846 Method 8260C
- SVOCs and 1,4-dioxane by SW846 Method 8270D
- TPH-GRO and TPH-DRO by SW846 Method 8015
- total and dissolved priority pollutant metals by SW846 Method 6010C/7470A

Groundwater samples from wells MT-MW01S through MT-MW06S collected on April 23-25, 2012 as part of the MSA annual monitoring program were analyzed for the following parameters:

- VOCs by SW846 Method 8260C
- 1,4-dioxane by SW846 Method 8270D

- TPH-GRO and TPH-DRO by SW846 Method 8015
- total and dissolved priority pollutant metals by SW846 Method 6010C/7470A
- perchlorate SW846 Method 6850
- hexavalent chromium SW846 Method 218.6

Groundwater samples for VOCs and TPH-GRO were collected first, followed by SVOCs/1,4-dioxane, TPH-DRO, and metals. Groundwater samples analyzed for dissolved metals were filtered in the field before sample preservation using a dedicated, disposable, 0.45-micron filter and a peristaltic pump. Trip blanks were analyzed at a rate of one per cooler containing VOC samples; no other quality assurance/quality control samples were collected. Groundwater samples were submitted for chemical analyses to TestAmerica of North Canton, Ohio.

### 3.3.3 Surveying

Subsequent to well installation, a qualified Maryland-licensed land-surveying chief and surveying crew (Tetra Tech, Newark, Delaware) provided horizontal and vertical coordinates for each new well location. Surveyed locations were accurate to the nearest 0.01-foot for vertical elevations using the North American Vertical Datum 1988 and 0.1-foot horizontal coordinates at the top of the well casings.

The surveyed point of each well was permanently marked in the field. Flush-mounted cover and ground elevations were also surveyed, with a vertical accuracy of 0.01-foot. A Tetra Tech geologist accompanied the survey crew to conduct site safety briefings and ensure that all wells were located, properly marked, and surveyed. Enviroscan, Inc. provided horizontal coordinates for the soil-boring sampling locations. The survey reports and global positioning system (GPS) coordinates for monitoring wells are in Appendix E, and the GPS coordinates for soil borings are in Appendix A.

### 3.3.4 General Sampling Documentation, Nomenclature, and Handling

A master site-logbook was maintained at the site as an overall record of field activities. Each sample received a unique sample-identification consisting of the site location, the boring or well number, sampling depth for soil samples, and a six-digit sampling date for groundwater samples, as follows:

- Soil samples received a sample-identification tag consisting of the designation MT-SS (Main Terminal soil sample) for soil samples, followed by the boring number, followed by the sample's collection depth. For example, MT-SS20-8-10 designates that the soil sample was collected from the Main Terminal Area at soil boring location 20 at a depth of eight to 10 feet below grade.

- Groundwater-monitoring-well samples are designated MT-MW (main terminal monitoring well), followed by the location number and a six-digit number indicating the date the sample was collected. For example, a groundwater sample collected on August 21, 2012 from the Main Terminal Area monitoring well MT-MW12S would be labeled MT-MW12S-082112.

- Trip blanks are labeled with a TB prefix, followed by a six-digit submittal date (e.g., TB082112).

Sample handling includes field-related considerations concerning the selection of sample containers, preservatives, allowable holding times, and analyses requested. Proper custody procedures were followed throughout all phases of sample collection and handling. Chain of custody (COC) protocols were used throughout sample handling to establish the evidentiary integrity of sample containers. These protocols demonstrate that the samples were handled and transferred in a manner that would eliminate or detect possible tampering.

Sample containers were released under signature from the laboratory and accepted under signature by the samplers or an individual responsible for maintaining custody until the sample containers were transferred to the sampling team. Each sample container was placed on ice in a cooler immediately after being filled and labeled. Trip blanks were placed on ice in a cooler at the beginning of each day and remained in the cooler along with VOC samples at all times. Coolers being returned to the laboratory were sealed with strapping tape and a tamper-proof custody seal. The custody seal includes the signature of the individual releasing the transport container, along with the date and time.

### 3.3.5 Equipment Decontamination

Well drilling and DPT equipment at each boring location was cleaned using a high-pressure steam cleaner. For well drilling, a decontamination pad was set up at the site. After steam cleaning, the decontamination water was transferred to USDOT-approved 55-gallon steel drums for storage. All well drilling and DPT equipment was also cleaned before beginning work, between drilling locations, and at the conclusion of the drilling/DPT program. During groundwater sampling, reusable groundwater-level measuring and sampling equipment

(e.g., water-level meter, pumps, and wire) were decontaminated before and after each use. Dedicated and disposable equipment (such as pump tubing) was used for groundwater purging and sampling. Decontamination of reusable small equipment consisted of the following steps:

- Alconox® and potable-water wash
- potable-water rinse
- air drying

All decontamination fluids were collected in USDOT-approved 55-gallon steel drums, which were stored in an area approved by MSA facility personnel.

### 3.3.6 Waste Management

IDW for this project consisted of soil cuttings from drilling and soil sampling, decontamination-rinsate water, well-development water, groundwater-sampling purge water, and used personal protective equipment (PPE). PPE IDW was brushed off, placed in trash bags, and disposed of in an MSA trash receptacle designated by facility personnel. Soil cuttings from drilling, rinsates from decontamination, well-development water, and groundwater-sampling purge water were stored in USDOT-approved 55-gallon steel drums. After task completion, drums were moved to a staging area identified by MSA facility personnel.

After completing the field investigation, 24 drums of IDW were removed from the site on October 12, 2012 under a nonhazardous waste profile by a Lockheed Martin-approved waste contractor (Clean Harbors of Baltimore, Maryland), and properly disposed of in accordance with federal, state, and local regulations. A representative from Lockheed Martin was on-site to oversee the drum removal, inspect the trucks, and sign the bills of lading. IDW disposal records are in Appendix F.

### 3.3.7 Site Restoration

Site restoration to match original conditions was completed as necessary and as required by MSA operations or MAA following completion of the field investigation. Site restoration included patching boreholes advanced through the asphalt.

## 3.4 DATA MANAGEMENT

Laboratory data-handling procedures met the requirements of the laboratory subcontract. All analytical and field data were maintained in Tetra Tech project files and include copies of the COC forms, sample log forms, sampling location maps, and documentation of quality assurance and quality control.

### 3.4.1 Data Tracking and Control

A cradle-to-grave sample-tracking system was used from the beginning to the end of the sampling event. Before field mobilization, the field operations leader coordinated and initiated the sample-tracking process. Sample labels were handwritten in the field or preprinted before entering the field. Labels were reviewed for accuracy and to ensure their adherence to the work plan. The project manager (PM) coordinated with the analytical laboratory to ensure that they were aware of the number and type of samples and analyses they would receive.

When field sampling was underway, the field operations leader forwarded COC forms to the PM or designee and to the laboratory for each day that samples were collected; the PM or designee confirmed that the COC forms provided the information required by the work plan. This data-tracking system ensured early detection of field errors so that adjustments could be made while the field team was still mobilized. After completion of all requested analyses, the laboratory submitted an electronic deliverable for every sample delivery group. When all electronic deliverables had been received from the laboratory, the PM or designee ensured that the laboratory had performed all requested analyses, and noted any discrepancies early enough so that all samples could be analyzed within the prescribed holding times.

### 3.4.2 Sample Information

Field measurement data were recorded on appropriate log sheets. Reducing field data entails summarizing and presenting these data in tabular form. Reducing laboratory data entails manipulating raw data-instrument output into reportable results. Field data such as temperature readings were verified daily by the field operations leader. Laboratory data were verified by the group supervisor and then by the laboratory's quality control/documentation department.

### 3.4.3 Project Data Compilation

The analytical laboratory generated an Adobe *Acrobat*® portable document file (PDF) of the analytical data-packages, as well as electronic-database deliverables. The electronic database was checked against the PDF file provided by the laboratory and updated as required, based on data-qualifier flags applied during data validation. Data generated during groundwater monitoring were incorporated into the MSA environmental geographical information system (EGIS) database. All data, such as units of measure and chemical nomenclature, were organized to assure consistency across the project database.

### 3.4.4 Geographical Information System

Data pertaining to the MSA sites (Dump Road Area, Strawberry Point [SP], Greater Strawberry Point [GSP], and Main Terminal Area) were managed to relate environmental information with a geographical information system (GIS). The relational database, collectively referred to as the EGIS, stores chemical, geological, hydrogeologic, and other environmental data collected during environmental investigations. Sample, chemical, and positional data were compiled and incorporated into the EGIS, and the EGIS then generated a variety of maps depicting Main Terminal Area data, including site locations, sampling locations, and contaminant tags, as needed.

### 3.4.5 Data Validation

Data validation entails having a party independent of the analytical laboratory review the analytical data to ensure that specific criteria have been met. These criteria are concerned with specifications that are not sample dependent; they specify performance requirements that should be fully under a laboratory's control. For organic data analyses, specific validation areas include blanks, performance-evaluation standard materials, and instrument performance checks. For inorganic data analyses, specific validation areas include blanks, calibration standards, calibration/verification standards, laboratory control standards, and interference check standards.

Chemical data were supplied by the laboratory as hard-copy reports and electronic databases. Following the investigation, chemical data were validated in accordance with established United States Environmental Protection Agency (USEPA) protocols to assess data reliability and accuracy. The data review was based on USEPA Region 3 modifications to the National

Functional Guidelines for data review (USEPA, 1993 and 1994) and the specifics of the analytical method employed. The data quality review is in Appendix G. Data-validation reports that include complete COC forms are also in Appendix G (on compact disc).

## Table 3-1

## Soil Sampling Details and Rationales
## Main Terminal Area Phase II Investigation, Martin State Airport, Middle River, Maryland

| Soil boring number | Soil boring location[1] | Number of borings/number of samples | Sampling depth (feet below grade[2]) | Analysis (method)[3] | Rationale/purpose |
|---|---|---|---|---|---|
| MT-SB17 | South of REC #3; northwest of hangar 1 | 1/2 | 0–2<br>8–10 | VOCs (8260B); SVOCs (8270D); PCBs (8082A); TPH-GRO/DRO (8015D); priority pollutant metals (6010C, 7471A) | To further delineate spatial distribution of petroleum hydrocarbons and benzene detected in REC #3 area based on 2011 MIP screening (MT-MIP04) and groundwater sampling (MT-MW02S) results (Tetra Tech, 2012). Boring was downgradient of the former fueling/defueling pits and fuel oil USTs, and farther downgradient from existing well MT-MW02S. To provide definitive chemical soil data to screen against human health and ecological risk criteria. |
| MT-SB18 | Southwest of REC #2; east of hangar 5 | 1/2 | 0–2<br>8–10 | VOCs (8260B); SVOCs (8270D); PCBs (8082A); TPH GRO/DRO (8015D); priority pollutant metals (6010C, 7471A); toxicity characteristic leaching procedure (TCLP; 1311) | To further delineate spatial distribution of petroleum hydrocarbons detected in REC #2 area based on 2011 MIP screening (MT-MIP22 and MT-MIP23) results. Boring was downgradient of the former fueling station and the 2011 MIP explorations. To provide definitive chemical soil data to screen against human health and ecological risk criteria. |
| MT-SB19 | Southwest of REC #21; southwest corner of hangar 5 | 1/2 | 0–2<br>8–10 | VOCs (8260B); SVOCs (8270D); PCBs (8082A); TPH GRO/DRO (8015D); priority pollutant metals (6010C, 7471A) | To further delineate spatial distribution of petroleum hydrocarbons based on 2011 MIP screening (MT-MIP19) and BTEX in soil gas (MT-SG19) downgradient of REC #21. To provide definitive chemical data for soil to screen against human health and ecological risk criteria. |
| MT-SB20<br>MT-SB21 | West and southwest of hangar 4 boiler room (REC #9) | 2/4 | 0–2<br>8–10 | VOCs (8260B); SVOCs (8270D); PCBs (8082A); TPH GRO/DRO (8015D); priority pollutant metals (6010C, 7471A) | To further delineate spatial distribution of VOCs detected in northern REC #9 (hangar 4 boiler room) and REC #22 (parachute drying) areas, based on a 2011 elevated MIP-screening result (MT-MIP21). Also, to help define the source of elevated TPH levels detected in groundwater downgradient of this area (MT-MW06S) and elevated soil gas volatiles (MT-SG20). To provide definitive chemical data for soil to screen against human health and ecological risk criteria. |

***Abbreviations:***

BTEX— benzene, toluene, ethylbenzene, xylenes
DRO— diesel-range organics
GRO— gasoline-range organics
MIP— membrane-interface probe
PCBs— polychlorinated biphenyls
REC— recognized environmental condition
SB— soil boring
SG— soil gas
SVOC— semivolatile organic compound
TCLP— toxicity characteristic leaching procedure
TPH— total petroleum hydrocarbons
UST— underground storage tank
VOCs— volatile organic compounds

[1]Sampling locations shown on Figure 3-1 were determined in the field based on the results of the soil-gas sampling and membrane-interface probes.

[2]Sampling depths adjusted in the field based on indications of contamination based on elevated photoionization detector readings, or the presence of sludge, debris, stained soils, or chemical odors.

[3]TCLP analysis performed on one select soil sample only, at MT-SB18, from eight to 10 feet below ground surface. Soil samples were obtained and containers for TCLP were filled from each boring. The sample exhibiting the greatest evidence of contamination based on field observations (e.g., staining, odors, etc.) was selected and submitted for TCLP analysis (one sample/one depth from one boring only).

**Table 3-2**

**Groundwater Monitoring Well Details and Rationales**
**Main Terminal Area Phase II Investigation, Martin State Airport, Middle River, Maryland**
**Page 1 of 2**

| Well number | Location[1] | Bottom well depth (feet) | Sample analysis (method) | Rationale/purpose |
|---|---|---|---|---|
| MT-MW07S<br>MT-MW08S | REC #3 area northwest of hangars 1-3 | 35 | VOCs (8260B)<br>SVOCs (8270D)<br>1,4-dioxane (8270D)<br>Priority pollutant metals—total and dissolved (6010C and 7470A)<br>TPH-GRO/DRO (8015D) | Provide risk-assessment-level groundwater-monitoring chemical data for the REC #3 area northwest of hangars 1–3. One well northwest of the former fueling/de-fueling pits and monitoring well MT-MW02S was installed in 2011. The well location is considered hydraulically upgradient and provides background groundwater-quality data relative to MT-MW02S, REC #3, and hangars 1–3. A second well provides additional data on groundwater quality cross-gradient of MT-MW02S and downgradient of the former REC #3 USTs and pits. These wells will supplement the existing monitoring well network at the Main Terminal Area to help estimate groundwater flow direction and rates. |
| MT-MW09S | West of REC #2; east of hangars 5 | 55 | VOCs (8260B)<br>SVOCs (8270D)<br>1,4-dioxane (8270D)<br>Priority pollutant metals—total and dissolved (6010C and 7470A)<br>TPH-GRO/DRO (8015D) | Provide risk-assessment-level groundwater-monitoring chemical data west (downgradient) of REC #2. This well provides data on groundwater possibly impacted by the former Fueling Station "B," based on elevated petroleum hydrocarbon levels detected in 2011 MIP explorations (MT-MIP22 and MT-MIP23). This well supplements the existing monitoring well network at the Main Terminal Area, to help estimate groundwater flow direction and rates. |
| MT-MW10S | REC #15 area, south of hangar 6 | 40 | VOCs (8260B)<br>SVOCs (8270D)<br>1,4-dioxane (8270D)<br>Priority pollutant metals—total and dissolved (6010C and 7470A)<br>TPH-GRO/DRO (8015D) | Provide risk-assessment-level groundwater-monitoring chemical data for the area near MIP-16, a 2011 MIP location where elevated petroleum hydrocarbon levels have been detected. The well helps estimate groundwater flow direction and rates, in conjunction with existing Main Terminal Area monitoring wells. |

**Table 3-2**

**Groundwater Monitoring Well Details and Rationales**
**Main Terminal Area Phase II Investigation**
**Martin State Airport, Middle River, Maryland**
**Page 2 of 2**

| Well number | Location[1] | Bottom well depth (feet) | Sample analysis (method) | Rationale/purpose |
|---|---|---|---|---|
| MT-MW11S | West of REC #21 | 49 | VOCs (8260B)<br>SVOCs (8270D)<br>1,4-dioxane (8270D)<br>Priority pollutant metals—total and dissolved (6010C and 7470A)<br>TPH-GRO/DRO (8015D) | Provide risk-assessment-level groundwater-monitoring chemical data downgradient of hangar 5 and REC #21. This well provides groundwater quality data in an area where 2011 MIP screening results (MT-MIP19) indicate elevated levels of petroleum hydrocarbons. This well supplements the existing monitoring well network at the Main Terminal Area to help estimate groundwater flow direction and rates. |
| MT-MW12S | West of hangar 5 Boiler Room/REC #9 | 35 | VOCs (8260B)<br>SVOCs (8270D)<br>1,4-dioxane (8270D)<br>Priority pollutant metals—total and dissolved (6010C and 7470A)<br>TPH-GRO/DRO (8015D) | Provide risk-assessment-level groundwater-monitoring chemical data downgradient of hangar 5 and REC #9. This well provides groundwater quality data in an area where 2011 Phase II data indicate elevated levels of VOCs in soil gas (MT-SG20) and of petroleum hydrocarbons (MT-MIP20). This well supplements the existing monitoring well network at the Main Terminal Area to help estimate groundwater flow direction and rates. |

***Abbreviations:***

DRO— diesel-range organics
GRO— gasoline-range organics
MIP— membrane-interface probe
REC— recognized environmental condition
SVOC— semivolatile organic compound
TPH— total petroleum hydrocarbons
UST— underground storage tank
VOC— volatile organic compound

[1]Well locations were adjusted in the field based on utility locations and/or permit restrictions.

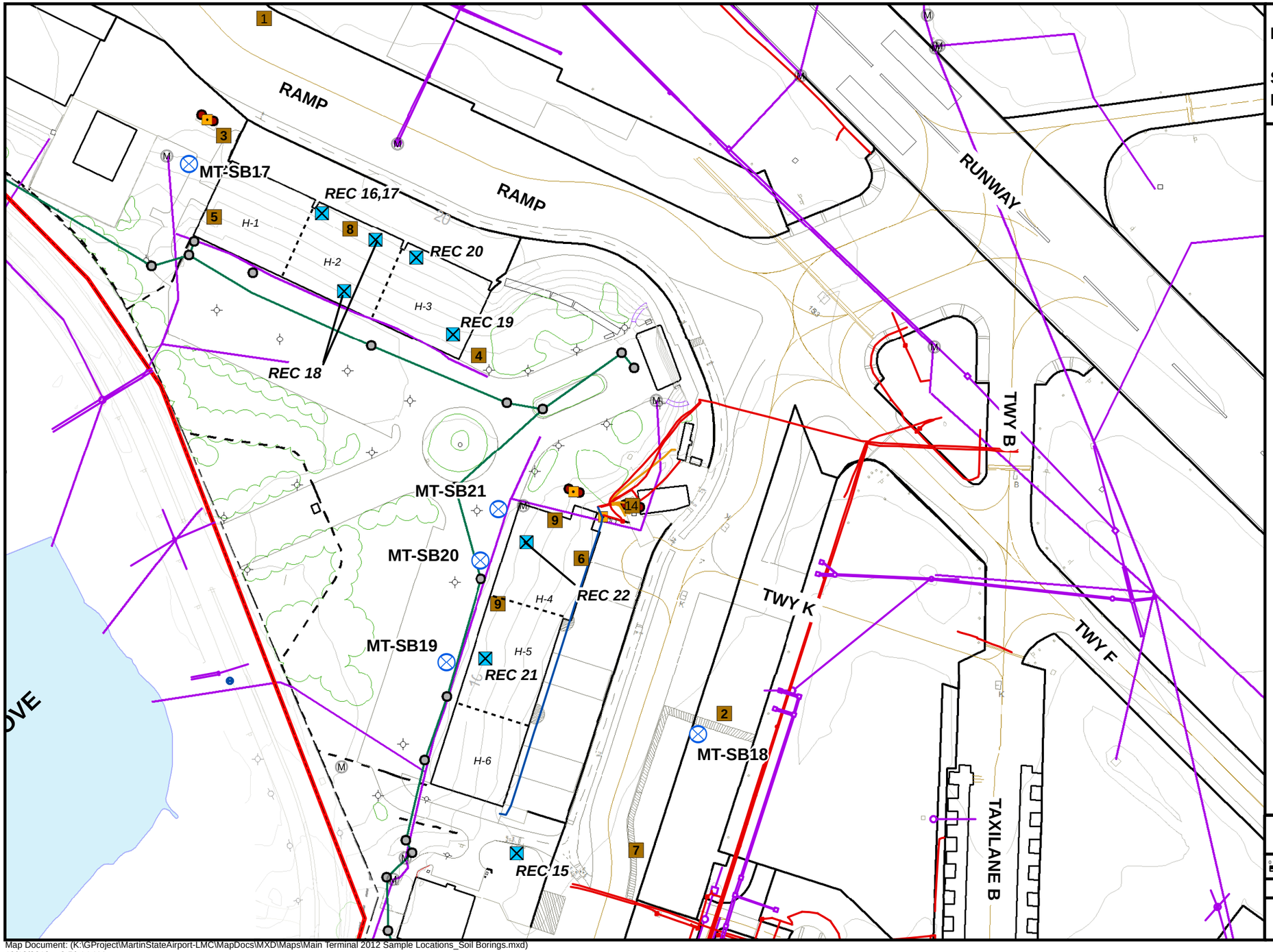



**FIGURE 3-1**

**SOIL BORING LOCATION MAP**
**MAIN TERMINAL AREA**

**Legend**

- Soil Boring (2012)
- REC Identified in Main Terminal Environmental Evaluation Report (Tetra Tech, 2010)
- Addendum REC
- MSA Manholes
- Sanitary MH
- MTN_Tanks
- MTN_WellsPipes
- Gas
- Sanitary Line
- Storm
- Water
- Electricity
- Telephone Line
- Subject Property Boundaries
- Electric Utilities
- H-1 Hangar No.

MSA – Martin State Airport
UST - Underground Storage Tank
MTN – Main Terminal
REC – Recognized Environmental Condition
MH - Manhole

| REC # | REC Name |
|---|---|
| REC 1 | - Former Fueling Station "A" near Hangar 1 |
| REC 2 | - Former Fueling Station "B" near Hangar 6 |
| REC 3 | - Former Fueling/De-Fueling Pits and Fuel Oil USTs at Hangar 1 |
| REC 4 | - Hangar 3 Historical Gasoline USTs |
| REC 5 | - Hangar 1 Former Propeller Cleaning Area |
| REC 6 | - Hangar 4 Former Machine Gun Cleaning/Assembly Area |
| REC 7 | - Missile Engine Test Area c. 1959 (estimated location) |
| REC 8 | - Hangar 2 Heating Room/Boiler |
| REC 9 | - Hangar 4 and 5 Heating/Boiler Rooms |
| REC 14 | - Current MAA Self-Fueling Station and Former 1,000 - gal oil UST |
| REC 15 | - Hangar 6 Former Fuel Oil USTs |
| REC 16 | - Hangar 2 Oil Room |
| REC 17 | - Hangar 2 Solvent Booth |
| REC 18 | - Hangar 2 Radar/shielded Rooms |
| REC 19 | - Hangar 3 Washing Area/Rotating Lift |
| REC 20 | - Hangar 3 Compressor/Motor Room |
| REC 21 | - Hangar 5 Painting/Stripping, and Acid Neutralization Areas |
| REC 22 | - Hangar 4 Parachute Drying Area |

***Main Terminal Area***
***Lockheed Martin, Martin State Airport***
***Middle River, Maryland***

0 60 120 240 Feet

N

DATE MODIFIED: 10/18/12

CREATED BY: MP

TETRA TECH

Map Document: (K:\GProject\MartinStateAirport-LMC\MapDocs\MXD\Maps\Main Terminal 2012 Sample Locations_Soil Borings.mxd)
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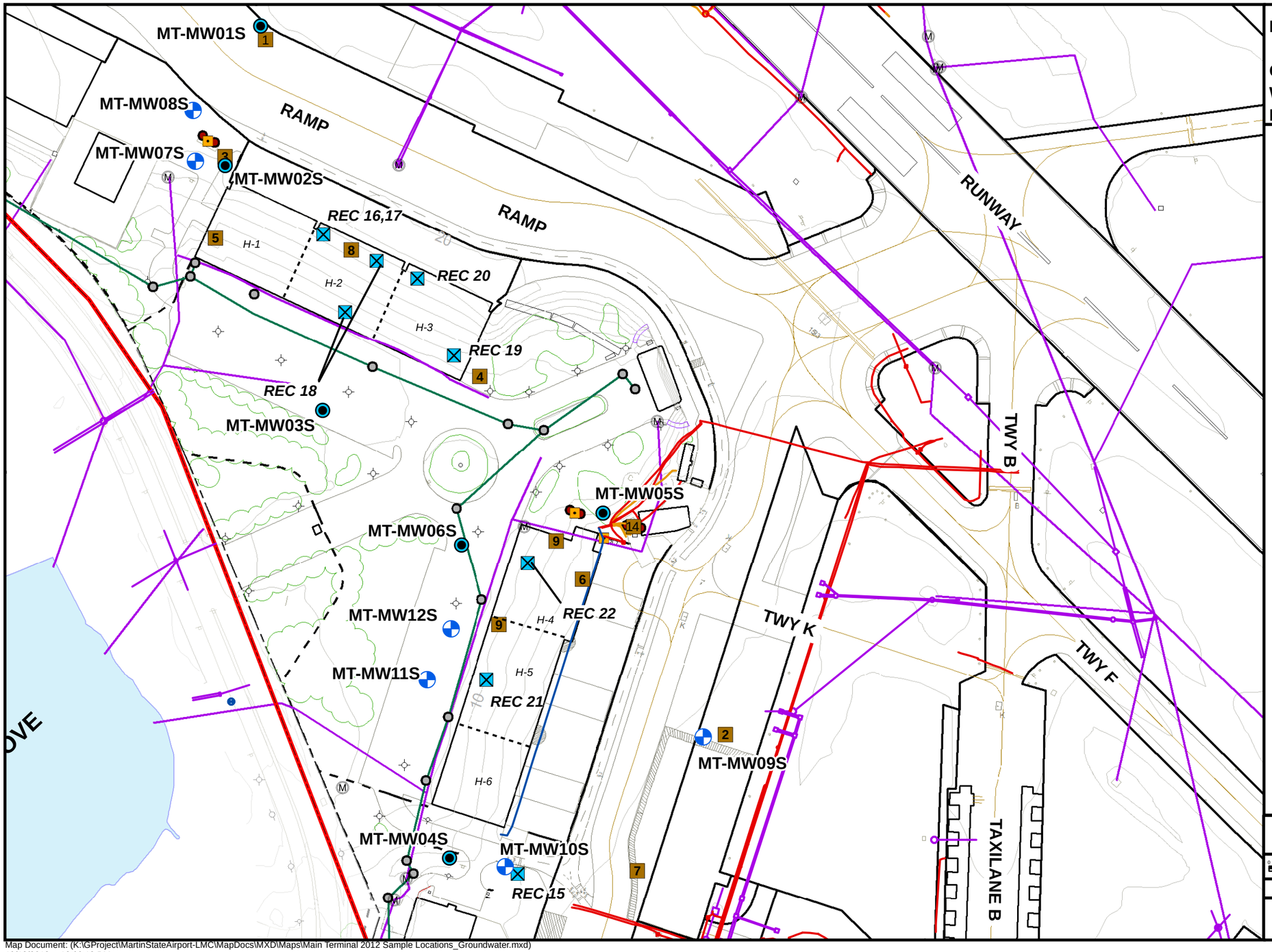



**FIGURE 3-2**

**GROUNDWATER MONITORING WELL LOCATION MAP MAIN TERMINAL AREA**

**Legend**

- Groundwater Monitoring Well (2012)
- Groundwater Monitoring Well (2011)
- REC Identified in Main Terminal Environmental Evaluation Report (Tetra Tech, 2010)
- Addendum REC
- MSA Manholes
- Gas
- Sanitary Line
- Storm
- Water
- Electricity
- Telephone Line
- Subject Property Boundaries
- Sanitary MH
- MTN_Tanks
- MTN_WellsPipes
- Electric Utilities
- H-1 Hangar No.

MSA – Martin State Airport
UST - Underground Storage Tank
MTN – Main Terminal
REC – Recognized Environmental Condition
MH - Manhole

| REC # | REC Name |
|---|---|
| REC 1 | Former Fueling Station "A" near Hangar 1 |
| REC 2 | Former Fueling Station "B" near Hangar 6 |
| REC 3 | Former Fueling/De-Fueling Pits and Fuel Oil USTs at Hangar 1 |
| REC 4 | Hangar 3 Historical Gasoline USTs |
| REC 5 | Hangar 1 Former Propeller Cleaning Area |
| REC 6 | Hangar 4 Former Machine Gun Cleaning/Assembly Area |
| REC 7 | Missile Engine Test Area c. 1959 (estimated location) |
| REC 8 | Hangar 2 Heating Room/Boiler |
| REC 9 | Hangar 4 and 5 Heating/Boiler Rooms |
| REC 14 | Current MAA Self-Fueling Station and Former 1,000 - gal oil UST |
| REC 15 | Hangar 6 Former Fuel Oil USTs |
| REC 16 | Hangar 2 Oil Room |
| REC 17 | Hangar 2 Solvent Booth |
| REC 18 | Hangar 2 Radar/shielded Rooms |
| REC 19 | Hangar 3 Washing Area/Rotating Lift |
| REC 20 | Hangar 3 Compressor/Motor Room |
| REC 21 | Hangar 5 Painting/Stripping, and Acid Neutralization Areas |
| REC 22 | Hangar 4 Parachute Drying Area |

***Main Terminal Area***
***Lockheed Martin, Martin State Airport***
***Middle River, Maryland***

0 60 120 240 Feet

N

DATE MODIFIED: 10/18/12

CREATED BY: MP

TETRA TECH

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# Section 4
# Results

This section presents the results of the supplemental Phase II main terminal soil sampling and groundwater investigation, along with the groundwater data collected from the six monitoring wells (MT-MW01S through MT-MW06S) installed during the 2011 main terminal Phase II site investigation that were sampled from April 23–25, 2012 as part of the Martin State Airport (MSA) annual groundwater monitoring program. This investigation included additional surface and subsurface explorations and testing to evaluate the presence of hazardous substances that may have been placed, leaked, or spilled during historical operations in the following recognized environmental conditions (RECs) in the Main Terminal Area: REC #2 (former fueling station B at hangar 6 apron); REC #3 (former fueling and defueling pits and fuel-oil underground storage tanks [USTs] at hangar 1); REC #9 (hangars 4 and 5 heating/boiler rooms); REC #15 (former fuel oil USTs at hangar 6); and REC #21 (hangar 5 painting/stripping area and acid-neutralization system). This investigation supplements the previous 2011 Phase II site investigation of the Main Terminal Area.

## 4.1 SOIL SAMPLING RESULTS

Samples were collected at two depth intervals (zero to two feet and eight to 10 feet) from five soil borings advanced in target areas to evaluate possible surface- and subsurface-soil chemical impacts. Ten soil samples (two per boring) were collected and chemically analyzed for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), total metals (including mercury), total petroleum hydrocarbon (TPH)-diesel-range organics (DRO), and TPH-gasoline-range organics (GRO). One additional sample (MT-TCLP-8-10) was collected from eight to 10 feet deep in boring MT-SB18 and analyzed by toxicity characteristic leaching procedure (TCLP). The validated data results were used to generate a summary table (Table 4-1) listing the concentrations of chemical analytes detected in the soil samples (a “positive hits” table).

Some data in Table 4-1 are qualified as estimated (*J*-qualified), indicating that although the analyte was positively identified in the sample, its concentration was below the laboratory quantitation limit and is therefore estimated. Several soil samples also had metals concentrations that were qualified with an "*L*" or a "*K*," indicating that the actual metal concentration in the sample may be either higher (*L*-qualified, or biased low) or lower (*K*-qualified, or biased high) than the concentration reported. Qualified data results are noted in Table 4-1. Appendix H includes a table of all chemical results, including non-detected values. Data-validation reports are included in Appendix G.

The analytical data obtained from these soil samples were compared to Maryland Department of the Environment (MDE) screening level standards for residential and non-residential land use (MDE, 2008). Residential standards were used for comparative purposes only, since access to the site is limited. Nonresidential screening criteria are the most appropriate screening levels for the current and projected future use of the property (i.e., continued use as an airport). Gray shading in Table 4-1 indicates results that exceed MDE residential soil standards only; black shading indicates results that exceed both residential and non-residential criteria.

VOCs were detected at low concentrations in five of the 10 soil samples, with all detected concentrations less than the residential soil standards. Trichloroethene (TCE) was detected in one soil sample (MT-SS21-8-10) at a concentration (110 micrograms per kilogram [µg/kg]) well below its residential soil standard (1,600 µg/kg). Benzene was detected in one soil sample (MT-SS18-8-10) at a concentration of 5.4 µg/kg, well below its residential soil standard (12,000 µg/kg).

Two samples (MT-SS17-0-2 and MT-SS17-8-10) from the same boring had SVOCs concentrations exceeding residential soil standards, but no samples had SVOCs results exceeding non-residential standards. In sample MT-SS17-0-2, concentrations of benzo(a)pyrene (150 µg/kg), benzo(a)pyrene equivalents (219 µg/kg), and dibenzo(a,h)anthracene (28 µg/kg) all exceed residential soil criteria. In sample MT-SS17-8-10, concentrations of benzo(a)anthracene (240 µg/kg), benzo(a)pyrene (310 µg/kg), benzo(a)pyrene equivalents (466 µg/kg), benzo(a)fluoranthene (440 µg/kg), dibenzo(a,h)anthracene (62 µg/kg), and indeno(1,2,3-cd)pyrene (230 µg/kg) all exceed residential soil criteria, but only the benzo(a)pyrene equivalents also exceed non-residential standards.

Six polycyclic aromatic hydrocarbons (PAHs) [benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, di-n-butyl phthalate, fluoranthene, and pyrene] were detected in subsurface soil sample MT-SB19-8-10, but all at concentrations below MDE residential and industrial soil screening levels. No SVOCs were detected above laboratory detection limits in the surface soil sample (MT-SS19-0-2) from the same boring. The results from boring MT-SB20 are similar; 10 PAHs were detected at low concentrations (below MDE screening criteria) in the deep sample (at eight to 10 feet), whereas three PAHs were detected in the surface sample (zero to two feet). In boring MT-SB21, SVOCs were detected at low concentrations (below MDE screening criteria in both surface and subsurface soil samples, with only seven and eight PAHs detected in each sample, respectively.

Three PAHs [bis(2-ethylhexyl)phthalate, di(n)butylphthalate, and fluoranthene] were detected in the surface soil sample (zero to two feet deep) at MT-SB18, but only one PAH [bis(2-ethylhexyl)phthalate] was detected in the deep sample (eight to10 feet); all concentrations are well below residential standards. Some of these detected constituents may be contaminants introduced during field sampling, as they are common laboratory equipment contaminants; bis(2-ethylhexyl)phthalate was qualified as a "laboratory blank contaminant" in four of 11 soil samples. 1,4-Dioxane, an emerging chemical of concern at the site, was not detected in these soil samples.

TPH-DRO exceeded its residential standard (230 milligram per kilogram [mg/kg]) in one sample (MT-SS17-0-2 at 240 mg/kg). The TPH-DRO concentration in MT-SS19-0-2 was qualified "*B*" by the laboratory, indicating laboratory blank contamination. TPH-GRO was detected in two samples (MT-SS17-0-2 and MT-SS18-0-2) at concentrations well below residential and non-residential screening criteria (230,000 µg/kg and 620,000 µg/kg, respectively). These results support the earlier conclusion that significant petroleum contamination is not present in this area (Tetra Tech, 2011). PCBs were not detected in any of the soil samples collected in the July 2012 main terminal investigation.

Concentrations of arsenic, chromium, and vanadium exceeded residential soil standards in one or more samples, as illustrated in Figures 4-1, 4-2, and 4-3, respectively. Past investigations in the Main Terminal Area have indicated that naturally occurring levels of arsenic, chromium, and vanadium in site soils commonly exceed residential and nonresidential risk-based concentrations.

Therefore, soil results for these three metals were also compared to MDE eastern Maryland region anticipated typical concentrations (ATC): 3.6 milligrams per kilogram (mg/kg), 28 mg/kg, and 30 mg/kg, for arsenic, chromium, and vanadium, respectively. MDE derived the ATCs to represent reference levels or background concentrations for seven metals in three geologic regions of Maryland. MDE allows the proposed use of an ATC concentration as an alternative to a (residential) risk-derived soil standard, provided the ATC exceeds the risk-derived standard.

Arsenic concentrations exceed the residential soil standard in 10 soil samples, and exceed the non-residential soil standard in nine of those 10 samples. Concentrations of arsenic detected in these samples range from an estimated (*J*-qualified) 1.0 mg/kg (MT-SS18-8-10) to 6.7 mg/kg (MT-SS18-0-2), with an average detected concentration of 4.64 mg/kg. However, arsenic in soil at these concentrations is not considered a concern, as it is a naturally occurring element that is ubiquitous in soil throughout this region of Maryland.

All but two arsenic concentrations (MT-SS17-8-10 [1.0 mg/kg] and MT-SS17-8-10 [2.4 mg/kg]) reported during this investigation exceed the MDE eastern region ATC (3.6 mg/kg). However, all arsenic concentrations are within the same order of magnitude or less than the MDE eastern region ATC. Since significant impacts from other metals or organic compounds are absent, the levels of arsenic detected in these soil samples are not likely the result of historical site-related industrial activities.

Total chromium and total vanadium concentrations exceed the residential soil standard in approximately half of all samples; however, none of the concentrations detected exceed non-residential soil standards. Total chromium concentrations detected in soil samples range from 19 mg/kg (MT-SS17-0-2) to 29 mg/kg (MT-SS18-0-2), with an average concentration of 22.9 mg/kg. Chromium was detected in five samples (MT-SS17-8-10, MT-SS18-02, MT-SS19-0-2, MT-SS20-8-10, and MT-SS21-0-2) at total concentrations that exceed its residential standard (23 mg/kg), but none of these concentrations exceeds the non-residential standard (310 mg/kg). Only one of five total chromium exceedances (MT- 29 mg/kg, at SS18-0-2) exceeds the ATC for chromium (28 mg/kg). Vanadium concentrations range from 14 mg/kg to 80 mg/kg, with an average concentration of 38.1 mg/kg. Vanadium exceeds its residential standard (7.8 mg/kg) in all 10 soil samples analyzed for total metals. Seven samples

also exceed the ATC for vanadium (30 mg/kg), but no sample concentration exceeds the non-residential standard (100 mg/kg).

Concentrations of total arsenic, vanadium, and chromium are more likely related to natural background rather than to historical industrial activities on site. The lack of organic compounds detected in these soil samples supports this conclusion. Other metals were also detected in these samples, but at concentrations that do not exceed regulatory standards. These metals include barium, beryllium, cobalt, copper, lead, nickel, selenium, and zinc.

One sample (MT-TCLP-8-10) from the eight- to 10-foot interval of soil boring MT-SB18 was submitted to a laboratory for toxicity characteristic leaching procedure (TCLP) analysis. Four TCLP metals were detected: barium (0.17 milligrams per liter [mg/L]), cadmium (0.0013 mg/L), chromium (0.0047 mg/L), and lead (0.05 mg/L). The low concentrations of metals detected in the TCLP analysis are all estimated, and do not exceed United States Environmental Protection Agency (USEPA) maximum contaminant concentration levels (i.e., the "D" list) for these metals (100 mg/L, 1.0 mg/L, 5 mg/L, and 5 mg/L, respectively). These results indicate that leaching of metals from soils (or sediments) to groundwater does not appear to be occurring in this area.

## 4.2 GROUNDWATER

The field program measured static groundwater levels (two events) and collected groundwater samples for laboratory chemical analyses from the six newly installed main terminal monitoring wells, along with the six previously installed main terminal monitoring wells. This section presents groundwater elevation data collected on August 21–22, 2012 (during groundwater sampling), and on October 4, 2012 (during a full site-wide groundwater monitoring event). The chemical results from the April 23–25, 2012 and August 21–22, 2012 groundwater sampling events are also presented. Groundwater samples from wells MT-MW01S through MT-MW06S were analyzed for VOCs, 1,4-dioxane, total and dissolved metals, TPH-DRO and TPH-GRO, perchlorate, and hexavalent chromium. Groundwater samples from wells MT-MW07S through MT-MW12S were analyzed for VOCs, SVOCs, 1,4-dioxane, total and dissolved metals, TPH-DRO, and TPH-GRO.

### 4.2.1 Groundwater Level Data

Table 4-2 presents the August and October 2012 groundwater level measurements and computed elevations for the six newly installed Main Terminal Area monitoring wells (MT-MW07S to MT-MW12S), along with the six wells (MT-MW01S to MT-MW06S) installed as part of the 2011 investigation. Figure 4-4 presents a groundwater-elevation contour map for the upper ("S") surficial-aquifer wells during the October 2012 monitoring event. Depth to groundwater in October 2012 ranged from 2.19 feet below top of casing at well MT-MW06S to 14.19 feet below top of casing at well MT-MW02S. The water level in monitoring well MT-MW03S was not recorded because the water level at the time of monitoring was above the top of the casing. The water level in monitoring well MT-MW11S was not recorded because an automobile was parked over the well and it could not be accessed. From the Main Terminal Area, groundwater flows southwest and west toward Dark Head Cove.

### 4.2.2 Groundwater Chemical Data

Validated chemical data for groundwater samples were used to generate a summary table (Table 4-3) of the analytes detected in the Main Terminal Area groundwater samples collected from April 23–25, 2012 and on August 21 and 22, 2012. Gray shading indicates results that exceed MDE groundwater standards. The data validation reports are in Appendix G; Appendix H contains a table of all chemical results, including non-detects. Figure 4-5 illustrates metals exceedances detected during the two groundwater sampling events. The following sections discuss the results of the groundwater chemical analyses.

#### 4.2.2.1 VOCs and SVOCs

During the April 2012 sampling event (MT-MW-01S through MT-MW-06S), one VOC (benzene) exceeded the MDE groundwater standard in groundwater samples collected from the Main Terminal Area. Benzene was detected at a concentration of 87 µg/L in well MW-02S, which is consistent with the concentration of 50.5 µg/L detected during the previous June 2011 sampling event. Eight different VOCs (acetone, benzene, carbon disulfide, carbon tetrachloride, chloroform, chloromethane, naphthalene, and toluene) were detected in groundwater samples collected from the Main Terminal Area during the August 2012 sampling event (MT-MW-07S through MT-MW-12S). None of the detected VOC concentrations exceeds their respective MDE groundwater standards.

Two different SVOCs [bis(2-ethylhexyl)phthalate and caprolactam] were detected in groundwater samples collected from the Main Terminal Area during the August 2012 sampling event. Bis(2-ethylhexyl)phthalate was detected in five of six groundwater samples at concentrations below MDE screening criteria, and caprolactam was detected in only two samples (MDE has no groundwater standard for caprolactam). These constituents are recognized as possible laboratory equipment or method-blank contaminants. 1,4-Dioxane was not detected in any groundwater samples from the April or August 2012 sampling events.

#### 4.2.2.2 Metals

Groundwater samples were analyzed for both total (i.e., unfiltered) and dissolved (i.e., filtered) metals. Thirteen metals were detected at varying concentrations in groundwater samples collected from the previously installed monitoring wells (MW-01S through MW-06S), and 14 metals were detected at varying concentrations in groundwater samples collected from the newly installed monitoring wells (MW-07S through MW-12S). Three metals (beryllium, nickel and vanadium) were detected at concentrations exceeding MDE groundwater standards.

Beryllium exceeded the MDE standard (4 µg/L) in four unfiltered samples: MT-MW05S (36 µg/L), MT-MW06S (81 µg/L), MT-MW10S (23 µg/L) and MT-MW12S (4.9 µg/L); and in three filtered samples: MT-MW05S (36 µg/L), MT-MW06S (80 µg/L), and MT-MW10S (22 µg/L). Nickel exceeded its standard (73 µg/L) in both unfiltered and filtered samples collected from the following wells:

| Well ID: | Total nickel (µg/L) | Filtered nickel (µg/L) |
|---|---|---|
| MT-MW-04S | 330 | 320 |
| MT-MW-05S | 870 | 870 |
| MT-MW-06S | 1,200 | 1,200 |
| MT-MW-10S | 380 | 370 |
| MT-MW-11S | 140 | 83 |
| MT-MW-12S | 690 | 680 |

Vanadium exceeded the MDE standard (3.7 µg/L) in one unfiltered sample (MT-MW03S) at an estimated concentration of 6.0 µg/L. Concentrations of these three metals detected in wells

MT-MW01S through MT-MW06S are consistent with the concentrations detected during the previous June 2011 sampling event.

#### 4.2.2.3 Petroleum Hydrocarbons

TPH-GRO was detected in one well (MT-MW02S) at a concentration of 1,400 µg/L, which is more than 30 times its MDE groundwater standard (47 µg/L). This concentration is similar to the 1,540 µg/L detected during the previous June 2011 sampling event. TPH-DRO was also detected in one well (MT-MW02S) at a concentration of 3,700 µg/L, which is approximately 80 times its MDE groundwater standard (47 µg/L). This concentration is similar to the 4,900 µg/L detected during the previous June 2011 sampling event. The remaining total petroleum hydrocarbon fraction results are qualified because of contamination in the associated laboratory-method preparation blanks. Concentrations in environmental samples, which were qualified with a *B* data validation flag, are comparable to those reported in the associated method blanks and are within a factor of five times the concentration present in the method blanks. Therefore, these reported TPH-GRO and TPH-DRO concentrations do not appear representative of the actual sample concentrations.

#### 4.2.2.4 Hexavalent Chromium and Perchlorate

Samples from monitoring wells MT-MW-01S through MT-MW06S, sampled in April 2012, were analyzed for hexavalent chromium and perchlorate. Hexavalent chromium was not detected in any of the six samples. Perchlorate was detected in one sample (MT-MW06S) at an estimated concentration of 0.16 µg/L.

**Table 4-1**

**Analytes Detected in Soil Samples, July 2012**
**Main Terminal Area Phase II Investigation**
**Martin State Airport, Middle River, Maryland**


| SAMPLE ID: / SAMPLE DATE: / LOCATION: | MDE RESIDENTIAL SOIL CRITERIA | MDE NON-RESIDENTIAL SOIL CRITERIA | MDE EASTERN REGION ATC | MT-SS17-0-2 7/10/2012 MT-SB17 | MT-SS17-8-10 7/10/2012 MT-SB17 | MT-SS18-0-2 7/10/2012 MT-SB18 |
|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS (µg/kg)** | | | | | | |
| 1,2,3-TRIMETHYLBENZENE | NA | NA | NA | 1.9 J | -- | 33 J |
| 1,2,4-TRIMETHYLBENZENE | NA | NA | NA | 2.3 J | -- | 34 J |
| 2-BUTANONE | 4700000 | 61000000 | NA | 4.1 J | 3 J | -- |
| 4-ISOPROPYLTOLUENE | NA | NA | NA | 1.3 J | -- | 26 J |
| ACETONE | 7000000 | 92000000 | NA | 42 | 65 | -- |
| BENZENE | 12000 | 52000 | NA | -- | -- | -- |
| CARBON DISULFIDE | 780000 | 10000000 | NA | 3 J | -- | -- |
| CARBON TETRACHLORIDE | 4900 | 22000 | NA | -- | -- | 490 |
| CHLOROFORM | 78000 | 1000000 | NA | -- | -- | 55 J |
| CIS-1,2-DICHLOROETHENE | 78000 | 1000000 | NA | 5.2 | -- | -- |
| ETHYLBENZENE | 780000 | 10000000 | NA | 0.34 J | -- | 27 J |
| ISOPROPYLBENZENE | 780000 | 10000000 | NA | 0.24 J | -- | 8.3 J |
| M+P-XYLENES | NA | NA | NA | -- | -- | 67 J |
| METHYLENE CHLORIDE | 85000 | 380000 | NA | -- | -- | -- |
| NAPHTHALENE | 160000 | 2000000 | NA | 0.62 B | -- | 23 J |
| O-XYLENE | NA | NA | NA | 0.46 J | -- | 49 J |
| SEC-BUTYLBENZENE | NA | NA | NA | 0.64 J | -- | -- |
| TERT-BUTYLBENZENE | NA | NA | NA | -- | -- | -- |
| TOLUENE | 630000 | 8200000 | NA | 0.49 J | 0.28 J | -- |
| TOTAL XYLENES | 1600000 | 20000000 | NA | -- | -- | 120 J |
| TRICHLOROETHENE | 1600 | 7200 | NA | -- | -- | -- |
| VINYL CHLORIDE | 90 | 4000 | NA | 2.5 J | -- | -- |
| **SEMIVOLATILE ORGANIC COMPOUNDS (µg/kg)** | | | | | | |
| 2,4-DIMETHYLPHENOL | 160000 | 2000000 | NA | 25 J | -- | -- |
| 2-METHYLNAPHTHALENE | 31000 | 410000 | NA | 18 | -- | -- |
| ACENAPHTHYLENE | 470000 | 6100000 | NA | 15 | 17 | -- |
| ACETOPHENONE | NA | NA | NA | 25 J | -- | -- |
| ANTHRACENE | 2300000 | 31000000 | NA | 25 | 39 | -- |
| BAP EQUIVALENT-HALFND | 22 | 390 | NA | 218.95 | 465.65 | -- |
| BAP EQUIVALENT-POS | 22 | 390 | NA | 218.95 | 465.65 | -- |
| BENZO(A)ANTHRACENE | 220 | 3900 | NA | 110 | 240 | -- |
| BENZO(A)PYRENE | 22 | 390 | NA | 150 | 310 | -- |
| BENZO(B)FLUORANTHENE | 220 | 3900 | NA | 190 | 440 | -- |
| BENZO(G,H,I)PERYLENE | 230000 | 3100000 | NA | 130 | 280 | -- |
| BENZO(K)FLUORANTHENE | 2200 | 39000 | NA | 99 | 230 | -- |
| BIS(2-ETHYLHEXYL)PHTHALATE | 46000 | 200000 | NA | 38 J | 58 J | 34 J |
| CHRYSENE | 22000 | 390000 | NA | 160 | 350 | -- |
| DIBENZO(A,H)ANTHRACENE | 22 | 390 | NA | 28 | 62 | -- |

**Table 4-1**

**Analytes Detected in Soil Samples, July 2012**
**Main Terminal Area Phase II Investigation**
**Martin State Airport, Middle River, Maryland**


| SAMPLE ID: / SAMPLE DATE: / LOCATION: | MDE RESIDENTIAL SOIL CRITERIA | MDE NON-RESIDENTIAL SOIL CRITERIA | MDE EASTERN REGION ATC | MT-SS17-0-2 7/10/2012 MT-SB17 | MT-SS17-8-10 7/10/2012 MT-SB17 | MT-SS18-0-2 7/10/2012 MT-SB18 |
|---|---|---|---|---|---|---|
| DI-N-BUTYL PHTHALATE | 780000 | 10000000 | NA | 35 J | 29 J | 20 J |
| FLUORANTHENE | 310000 | 4100000 | NA | 190 | 510 | 8.7 |
| FLUORENE | 310000 | 4100000 | NA | -- | 10 | -- |
| INDENO(1,2,3-CD)PYRENE | 220 | 3900 | NA | 98 | 230 | -- |
| NAPHTHALENE | 160000 | 2000000 | NA | 30 | -- | -- |
| PHENANTHRENE | 2300000 | 31000000 | NA | 65 | 150 | -- |
| PHENOL | 2300000 | 31000000 | NA | 37 J | -- | -- |
| PYRENE | 230000 | 3100000 | NA | 210 | 450 | -- |
| **TOTAL METALS (mg/kg)** | | | | | | |
| ARSENIC | 0.43 | 1.9 | 3.6 | 5.7* | 2.4 L | 6.7* |
| BARIUM | 1600 | 20000 | NA | 20 J | 13 J | 9.3 J |
| BERYLLIUM | 16 | 200 | NA | 2.4 | 1.8 | 2.4 |
| CHROMIUM | 23 | 310 | 28 | 19 | 25 | 29 |
| COBALT | NA | NA | NA | 9.7 | 4.7 | 7 |
| COPPER | 310 | 4100 | NA | 17 | 13 | 36 |
| LEAD | 400 | 1000 | NA | 7.8 | 5.2 | 1.9 |
| NICKEL | 160 | 2000 | NA | 22 | 17 | 16 |
| SELENIUM | 39 | 510 | NA | -- | -- | 0.98 J |
| VANADIUM | 7.8 | 100 | 30 | 28 | 46 | 80 |
| ZINC | 2300 | 31000 | NA | 79 | 17 | 20 |
| **PETROLEUM HYDROCARBONS (mg/kg)** | | | | | | |
| DIESEL RANGE ORGANICS | 230 | 620 | NA | 240 | 28 | -- |
| **PETROLEUM HYDROCARBONS (µg/kg)** | | | | | | |
| GASOLINE RANGE ORGANICS | 230000 | 620000 | NA | 130 | -- | 380 |
| **TOXICITY CHARACTERISTIC LEACHING PROCEDURE METALS (mg/L)** | | | | | | |
| BARIUM | NA | NA | NA | NA | NA | NA |
| CADMIUM | NA | NA | NA | NA | NA | NA |
| CHROMIUM | NA | NA | NA | NA | NA | NA |
| LEAD | NA | NA | NA | NA | NA | NA |

**Table 4-1**

**Analytes Detected in Soil Samples, July 2012**
**Main Terminal Area Phase II Investigation**
**Martin State Airport, Middle River, Maryland**


| SAMPLE ID: | MDE RESIDENTIAL SOIL CRITERIA | MDE NON-RESIDENTIAL SOIL CRITERIA | MDE EASTERN REGION ATC | MT-SS18-8-10 | MT-SS19-0-2 | MT-SS19-8-10 |
|---|---|---|---|---|---|---|
| SAMPLE DATE: | | | | 7/10/2012 | 7/9/2012 | 7/9/2012 |
| LOCATION: | | | | MT-SB18 | MT-SB19 | MT-SB19 |
| **VOLATILE ORGANIC COMPOUNDS (µg/kg)** | | | | | | |
| 1,2,3-TRIMETHYLBENZENE | NA | NA | NA | 3.9 J | -- | -- |
| 1,2,4-TRIMETHYLBENZENE | NA | NA | NA | -- | -- | -- |
| 2-BUTANONE | 4700000 | 61000000 | NA | -- | -- | -- |
| 4-ISOPROPYLTOLUENE | NA | NA | NA | -- | -- | -- |
| ACETONE | 7000000 | 92000000 | NA | -- | -- | -- |
| BENZENE | 12000 | 52000 | NA | 5.4 | -- | -- |
| CARBON DISULFIDE | 780000 | 10000000 | NA | 4.2 J | -- | -- |
| CARBON TETRACHLORIDE | 4900 | 22000 | NA | 78 | -- | -- |
| CHLOROFORM | 78000 | 1000000 | NA | 32 | -- | -- |
| CIS-1,2-DICHLOROETHENE | 78000 | 1000000 | NA | -- | -- | -- |
| ETHYLBENZENE | 780000 | 10000000 | NA | -- | -- | -- |
| ISOPROPYLBENZENE | 780000 | 10000000 | NA | 0.95 J | -- | -- |
| M+P-XYLENES | NA | NA | NA | -- | -- | -- |
| METHYLENE CHLORIDE | 85000 | 380000 | NA | 0.71 J | 1.9 B | 3 B |
| NAPHTHALENE | 160000 | 2000000 | NA | 1.1 B | -- | 1.6 B |
| O-XYLENE | NA | NA | NA | 2.5 J | -- | -- |
| SEC-BUTYLBENZENE | NA | NA | NA | 0.54 J | -- | -- |
| TERT-BUTYLBENZENE | NA | NA | NA | 0.45 J | -- | -- |
| TOLUENE | 630000 | 8200000 | NA | 0.48 J | -- | -- |
| TOTAL XYLENES | 1600000 | 20000000 | NA | 2.5 J | -- | -- |
| TRICHLOROETHENE | 1600 | 7200 | NA | -- | -- | -- |
| VINYL CHLORIDE | 90 | 4000 | NA | -- | -- | -- |
| **SEMIVOLATILE ORGANIC COMPOUNDS (µg/kg)** | | | | | | |
| 2,4-DIMETHYLPHENOL | 160000 | 2000000 | NA | -- | -- | -- |
| 2-METHYLNAPHTHALENE | 31000 | 410000 | NA | -- | -- | -- |
| ACENAPHTHYLENE | 470000 | 6100000 | NA | -- | -- | -- |
| ACETOPHENONE | NA | NA | NA | -- | -- | -- |
| ANTHRACENE | 2300000 | 31000000 | NA | -- | -- | -- |
| BAP EQUIVALENT-HALFND | 22 | 390 | NA | -- | -- | 9.55965 |
| BAP EQUIVALENT-POS | 22 | 390 | NA | -- | -- | 7.279 |
| BENZO(A)ANTHRACENE | 220 | 3900 | NA | -- | -- | -- |
| BENZO(A)PYRENE | 22 | 390 | NA | -- | -- | 6.6 J |
| BENZO(B)FLUORANTHENE | 220 | 3900 | NA | -- | -- | 6.3 J |
| BENZO(G,H,I)PERYLENE | 230000 | 3100000 | NA | -- | -- | -- |
| BENZO(K)FLUORANTHENE | 2200 | 39000 | NA | -- | -- | 4.9 J |
| BIS(2-ETHYLHEXYL)PHTHALATE | 46000 | 200000 | NA | 25 J | -- | 26 B |
| CHRYSENE | 22000 | 390000 | NA | -- | -- | -- |
| DIBENZO(A,H)ANTHRACENE | 22 | 390 | NA | -- | -- | -- |

**Table 4-1**

**Analytes Detected in Soil Samples, July 2012**
**Main Terminal Area Phase II Investigation**
**Martin State Airport, Middle River, Maryland**


| SAMPLE ID: | MDE RESIDENTIAL SOIL CRITERIA | MDE NON-RESIDENTIAL SOIL CRITERIA | MDE EASTERN REGION ATC | MT-SS18-8-10 | MT-SS19-0-2 | MT-SS19-8-10 |
|---|---|---|---|---|---|---|
| SAMPLE DATE: | | | | 7/10/2012 | 7/9/2012 | 7/9/2012 |
| LOCATION: | | | | MT-SB18 | MT-SB19 | MT-SB19 |
| DI-N-BUTYL PHTHALATE | 780000 | 10000000 | NA | -- | -- | 34 J |
| FLUORANTHENE | 310000 | 4100000 | NA | -- | -- | 15 |
| FLUORENE | 310000 | 4100000 | NA | -- | -- | -- |
| INDENO(1,2,3-CD)PYRENE | 220 | 3900 | NA | -- | -- | -- |
| NAPHTHALENE | 160000 | 2000000 | NA | -- | -- | -- |
| PHENANTHRENE | 2300000 | 31000000 | NA | -- | -- | -- |
| PHENOL | 2300000 | 31000000 | NA | -- | -- | -- |
| PYRENE | 230000 | 3100000 | NA | -- | -- | 16 |
| **TOTAL METALS (mg/kg)** | | | | | | |
| ARSENIC | 0.43 | 1.9 | 3.6 | 1 J | 6.2* | 6.4* |
| BARIUM | 1600 | 20000 | NA | 10 J | 13 J | 13 J |
| BERYLLIUM | 16 | 200 | NA | 0.44 B | 1.6 | 2.7 |
| CHROMIUM | 23 | 310 | 28 | 20 | 24 L | 23 L |
| COBALT | NA | NA | NA | 1.8 L | 7.5 | 14 |
| COPPER | 310 | 4100 | NA | 4.7 | 33 | 25 |
| LEAD | 400 | 1000 | NA | 1 J | 6.7 | 3.8 |
| NICKEL | 160 | 2000 | NA | 3.3 J | 30 J | 52 J |
| SELENIUM | 39 | 510 | NA | -- | -- | -- |
| VANADIUM | 7.8 | 100 | 30 | 14 | 43 L | 29 L |
| ZINC | 2300 | 31000 | NA | 4.9 J | 38 | 72 |
| **PETROLEUM HYDROCARBONS (mg/kg)** | | | | | | |
| DIESEL RANGE ORGANICS | 230 | 620 | NA | -- | 11 B | -- |
| **PETROLEUM HYDROCARBONS (µg/kg)** | | | | | | |
| GASOLINE RANGE ORGANICS | 230000 | 620000 | NA | -- | -- | -- |
| **TOXICITY CHARACTERISTIC LEACHING PROCEDURE METALS (mg/L)** | | | | | | |
| BARIUM | NA | NA | NA | NA | NA | NA |
| CADMIUM | NA | NA | NA | NA | NA | NA |
| CHROMIUM | NA | NA | NA | NA | NA | NA |
| LEAD | NA | NA | NA | NA | NA | NA |

**Table 4-1**

**Analytes Detected in Soil Samples, July 2012**
**Main Terminal Area Phase II Investigation**
**Martin State Airport, Middle River, Maryland**


| SAMPLE ID: / SAMPLE DATE: / LOCATION: | MDE RESIDENTIAL SOIL CRITERIA | MDE NON-RESIDENTIAL SOIL CRITERIA | MDE EASTERN REGION ATC | MT-SS20-0-2 7/9/2012 MT-SB20 | MT-SS20-8-10 7/9/2012 MT-SB20 | MT-SS21-0-2 7/9/2012 MT-SB21 |
|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS (µg/kg)** | | | | | | |
| 1,2,3-TRIMETHYLBENZENE | NA | NA | NA | -- | -- | -- |
| 1,2,4-TRIMETHYLBENZENE | NA | NA | NA | -- | -- | -- |
| 2-BUTANONE | 4700000 | 61000000 | NA | -- | -- | -- |
| 4-ISOPROPYLTOLUENE | NA | NA | NA | -- | -- | -- |
| ACETONE | 7000000 | 92000000 | NA | -- | -- | -- |
| BENZENE | 12000 | 52000 | NA | -- | -- | -- |
| CARBON DISULFIDE | 780000 | 10000000 | NA | -- | -- | -- |
| CARBON TETRACHLORIDE | 4900 | 22000 | NA | -- | -- | -- |
| CHLOROFORM | 78000 | 1000000 | NA | -- | -- | -- |
| CIS-1,2-DICHLOROETHENE | 78000 | 1000000 | NA | -- | -- | -- |
| ETHYLBENZENE | 780000 | 10000000 | NA | -- | -- | -- |
| ISOPROPYLBENZENE | 780000 | 10000000 | NA | -- | -- | -- |
| M+P-XYLENES | NA | NA | NA | -- | -- | -- |
| METHYLENE CHLORIDE | 85000 | 380000 | NA | 1.7 B | 0.78 B | 1 B |
| NAPHTHALENE | 160000 | 2000000 | NA | 0.24 B | -- | -- |
| O-XYLENE | NA | NA | NA | -- | -- | -- |
| SEC-BUTYLBENZENE | NA | NA | NA | -- | -- | -- |
| TERT-BUTYLBENZENE | NA | NA | NA | -- | -- | -- |
| TOLUENE | 630000 | 8200000 | NA | -- | -- | -- |
| TOTAL XYLENES | 1600000 | 20000000 | NA | -- | -- | -- |
| TRICHLOROETHENE | 1600 | 7200 | NA | -- | -- | -- |
| VINYL CHLORIDE | 90 | 4000 | NA | -- | -- | -- |
| **SEMIVOLATILE ORGANIC COMPOUNDS (µg/kg)** | | | | | | |
| 2,4-DIMETHYLPHENOL | 160000 | 2000000 | NA | -- | -- | -- |
| 2-METHYLNAPHTHALENE | 31000 | 410000 | NA | -- | -- | -- |
| ACENAPHTHYLENE | 470000 | 6100000 | NA | -- | -- | -- |
| ACETOPHENONE | NA | NA | NA | -- | -- | -- |
| ANTHRACENE | 2300000 | 31000000 | NA | -- | -- | -- |
| BAP EQUIVALENT-HALFND | 22 | 390 | NA | -- | 21.683 | 8.2315 |
| BAP EQUIVALENT-POS | 22 | 390 | NA | -- | 19.683 | 6.067 |
| BENZO(A)ANTHRACENE | 220 | 3900 | NA | -- | 11 | 6 J |
| BENZO(A)PYRENE | 22 | 390 | NA | -- | 16 | 4.9 J |
| BENZO(B)FLUORANTHENE | 220 | 3900 | NA | -- | 15 | 5.6 J |
| BENZO(G,H,I)PERYLENE | 230000 | 3100000 | NA | -- | 15 | -- |
| BENZO(K)FLUORANTHENE | 2200 | 39000 | NA | -- | 7.2 J | -- |
| BIS(2-ETHYLHEXYL)PHTHALATE | 46000 | 200000 | NA | 34 B | 28 B | 24 B |
| CHRYSENE | 22000 | 390000 | NA | -- | 11 | 7 J |
| DIBENZO(A,H)ANTHRACENE | 22 | 390 | NA | -- | -- | -- |

**Table 4-1**

**Analytes Detected in Soil Samples, July 2012**
**Main Terminal Area Phase II Investigation**
**Martin State Airport, Middle River, Maryland**


| SAMPLE ID: / SAMPLE DATE: / LOCATION: | MDE RESIDENTIAL SOIL CRITERIA | MDE NON-RESIDENTIAL SOIL CRITERIA | MDE EASTERN REGION ATC | MT-SS20-0-2 7/9/2012 MT-SB20 | MT-SS20-8-10 7/9/2012 MT-SB20 | MT-SS21-0-2 7/9/2012 MT-SB21 |
|---|---|---|---|---|---|---|
| DI-N-BUTYL PHTHALATE | 780000 | 10000000 | NA | 24 J | -- | -- |
| FLUORANTHENE | 310000 | 4100000 | NA | 5.7 J | 13 | 14 |
| FLUORENE | 310000 | 4100000 | NA | -- | -- | -- |
| INDENO(1,2,3-CD)PYRENE | 220 | 3900 | NA | -- | 10 | -- |
| NAPHTHALENE | 160000 | 2000000 | NA | -- | -- | -- |
| PHENANTHRENE | 2300000 | 31000000 | NA | -- | 9.4 | 11 |
| PHENOL | 2300000 | 31000000 | NA | -- | -- | -- |
| PYRENE | 230000 | 3100000 | NA | 4.8 J | 19 | 14 |
| **TOTAL METALS (mg/kg)** | | | | | | |
| ARSENIC | 0.43 | 1.9 | 3.6 | 3.9* | 5* | 4.4* |
| BARIUM | 1600 | 20000 | NA | 19 J | 18 J | 16 J |
| BERYLLIUM | 16 | 200 | NA | 2.9 | 4 | 3.8 |
| CHROMIUM | 23 | 310 | 28 | 20 L | 24 L | 24 L |
| COBALT | NA | NA | NA | 14 | 13 | 10 |
| COPPER | 310 | 4100 | NA | 24 | 38 | 15 |
| LEAD | 400 | 1000 | NA | 4.4 | 6.3 | 4.1 |
| NICKEL | 160 | 2000 | NA | 45 J | 44 J | 34 J |
| SELENIUM | 39 | 510 | NA | -- | -- | -- |
| VANADIUM | 7.8 | 100 | 30 | 31 L | 38 L | 36 L |
| ZINC | 2300 | 31000 | NA | 69 | 73 | 49 |
| **PETROLEUM HYDROCARBONS (mg/kg)** | | | | | | |
| DIESEL RANGE ORGANICS | 230 | 620 | NA | -- | -- | -- |
| **PETROLEUM HYDROCARBONS (µg/kg)** | | | | | | |
| GASOLINE RANGE ORGANICS | 230000 | 620000 | NA | -- | -- | -- |
| **TOXICITY CHARACTERISTIC LEACHING PROCEDURE METALS (mg/L)** | | | | | | |
| BARIUM | NA | NA | NA | NA | NA | NA |
| CADMIUM | NA | NA | NA | NA | NA | NA |
| CHROMIUM | NA | NA | NA | NA | NA | NA |
| LEAD | NA | NA | NA | NA | NA | NA |

**Table 4-1**

**Analytes Detected in Soil Samples, July 2012**
**Main Terminal Area Phase II Investigation**
**Martin State Airport, Middle River, Maryland**


| SAMPLE ID: / SAMPLE DATE: / LOCATION: | MDE RESIDENTIAL SOIL CRITERIA | MDE NON-RESIDENTIAL SOIL CRITERIA | MDE EASTERN REGION ATC | MT-SS21-8-10 7/9/2012 MT-SB21 | MT-TCLP-8-10 7/10/2012 MT-TCLP |
|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS (µg/kg)** | | | | | |
| 1,2,3-TRIMETHYLBENZENE | NA | NA | NA | -- | NA |
| 1,2,4-TRIMETHYLBENZENE | NA | NA | NA | -- | NA |
| 2-BUTANONE | 4700000 | 61000000 | NA | -- | NA |
| 4-ISOPROPYLTOLUENE | NA | NA | NA | -- | NA |
| ACETONE | 7000000 | 92000000 | NA | -- | NA |
| BENZENE | 12000 | 52000 | NA | -- | NA |
| CARBON DISULFIDE | 780000 | 10000000 | NA | -- | NA |
| CARBON TETRACHLORIDE | 4900 | 22000 | NA | 4.4 J | NA |
| CHLOROFORM | 78000 | 1000000 | NA | -- | NA |
| CIS-1,2-DICHLOROETHENE | 78000 | 1000000 | NA | -- | NA |
| ETHYLBENZENE | 780000 | 10000000 | NA | -- | NA |
| ISOPROPYLBENZENE | 780000 | 10000000 | NA | -- | NA |
| M+P-XYLENES | NA | NA | NA | -- | NA |
| METHYLENE CHLORIDE | 85000 | 380000 | NA | 0.66 B | NA |
| NAPHTHALENE | 160000 | 2000000 | NA | -- | NA |
| O-XYLENE | NA | NA | NA | -- | NA |
| SEC-BUTYLBENZENE | NA | NA | NA | -- | NA |
| TERT-BUTYLBENZENE | NA | NA | NA | -- | NA |
| TOLUENE | 630000 | 8200000 | NA | -- | NA |
| TOTAL XYLENES | 1600000 | 20000000 | NA | -- | NA |
| TRICHLOROETHENE | 1600 | 7200 | NA | 110 | NA |
| VINYL CHLORIDE | 90 | 4000 | NA | -- | NA |
| **SEMIVOLATILE ORGANIC COMPOUNDS (µg/kg)** | | | | | |
| 2,4-DIMETHYLPHENOL | 160000 | 2000000 | NA | -- | NA |
| 2-METHYLNAPHTHALENE | 31000 | 410000 | NA | -- | NA |
| ACENAPHTHYLENE | 470000 | 6100000 | NA | -- | NA |
| ACETOPHENONE | NA | NA | NA | -- | NA |
| ANTHRACENE | 2300000 | 31000000 | NA | -- | NA |
| BAP EQUIVALENT-HALFND | 22 | 390 | NA | 12.1729 | NA |
| BAP EQUIVALENT-POS | 22 | 390 | NA | 10.0084 | NA |
| BENZO(A)ANTHRACENE | 220 | 3900 | NA | 9.3 | NA |
| BENZO(A)PYRENE | 22 | 390 | NA | 8.2 | NA |
| BENZO(B)FLUORANTHENE | 220 | 3900 | NA | 8.7 | NA |
| BENZO(G,H,I)PERYLENE | 230000 | 3100000 | NA | 5.4 J | NA |
| BENZO(K)FLUORANTHENE | 2200 | 39000 | NA | -- | NA |
| BIS(2-ETHYLHEXYL)PHTHALATE | 46000 | 200000 | NA | -- | NA |
| CHRYSENE | 22000 | 390000 | NA | 8.4 | NA |
| DIBENZO(A,H)ANTHRACENE | 22 | 390 | NA | -- | NA |

**Table 4-1**

**Analytes Detected in Soil Samples, July 2012**
**Main Terminal Area Phase II Investigation**
**Martin State Airport, Middle River, Maryland**


| SAMPLE ID: | MDE RESIDENTIAL SOIL CRITERIA | MDE NON-RESIDENTIAL SOIL CRITERIA | MDE EASTERN REGION ATC | MT-SS21-8-10 | MT-TCLP-8-10 |
|---|---|---|---|---|---|
| SAMPLE DATE: | | | | 7/9/2012 | 7/10/2012 |
| LOCATION: | | | | MT-SB21 | MT-TCLP |
| DI-N-BUTYL PHTHALATE | 780000 | 10000000 | NA | -- | NA |
| FLUORANTHENE | 310000 | 4100000 | NA | 11 | NA |
| FLUORENE | 310000 | 4100000 | NA | -- | NA |
| INDENO(1,2,3-CD)PYRENE | 220 | 3900 | NA | -- | NA |
| NAPHTHALENE | 160000 | 2000000 | NA | -- | NA |
| PHENANTHRENE | 2300000 | 31000000 | NA | 6.9 J | NA |
| PHENOL | 2300000 | 31000000 | NA | -- | NA |
| PYRENE | 230000 | 3100000 | NA | 18 | NA |
| **TOTAL METALS (mg/kg)** | | | | | |
| ARSENIC | 0.43 | 1.9 | 3.6 | 4.7* | NA |
| BARIUM | 1600 | 20000 | NA | 12 J | NA |
| BERYLLIUM | 16 | 200 | NA | 5.8 | NA |
| CHROMIUM | 23 | 310 | 28 | 21 L | NA |
| COBALT | NA | NA | NA | 14 | NA |
| COPPER | 310 | 4100 | NA | 19 | NA |
| LEAD | 400 | 1000 | NA | 5.1 | NA |
| NICKEL | 160 | 2000 | NA | 49 J | NA |
| SELENIUM | 39 | 510 | NA | -- | NA |
| VANADIUM | 7.8 | 100 | 30 | 36 L | NA |
| ZINC | 2300 | 31000 | NA | 78 | NA |
| **PETROLEUM HYDROCARBONS (mg/kg)** | | | | | |
| DIESEL RANGE ORGANICS | 230 | 620 | NA | -- | NA |
| **PETROLEUM HYDROCARBONS (µg/kg)** | | | | | |
| GASOLINE RANGE ORGANICS | 230000 | 620000 | NA | -- | NA |
| **TOXICITY CHARACTERISTIC LEACHING PROCEDURE METALS (mg/L)** | | | | | |
| BARIUM | NA | NA | NA | NA | 0.17 J |
| CADMIUM | NA | NA | NA | NA | 0.0013 J |
| CHROMIUM | NA | NA | NA | NA | 0.0047 J |
| LEAD | NA | NA | NA | NA | 0.05 J |

MDE - Maryland Department of the Environment, June 2008
ATC- antipated typical concentration
-- not detected at listed detection limit
B - laboratory blank contamination
J - positive result considered estimated as a result of technical noncompliance
K - result biased high due to technical noncompliance
L - result biased low due to technical noncompliance
NA - Not Applicable/Analyzed
NJ - compound is tentatively identified; result is estimated
µg/kg - micrograms per kilogram
mg/kg - milligrams per kilogram
mg/L - milligrams per liter
Gray shaded values exceed MDE residential screening criteria.
Black shaded values exceed MDE industrial and residential soil criteria.
* Asterisk indicates metals concentration exceeds the Eastern Maryland ATC.
BaPEq Pos - Benzo(a)pyrene equiavalents calculated based on postive detections only.
BaPEq HalfND- Benzo(a)pyrene equiavalents calculated using tabulated values for non-detects.
Chromium concentration reported is total chromium.

**Table 4-2**

**Groundwater Levels and Elevations, August and October 2012**
**Main Terminal Area**
**Martin State Airport, Middle River, Maryland**

| Well ID: | Top of Casing Elevation (Feet) | Total Well Depth (Feet) | Water Level Reading (Feet Below Top of Casing) August 21-22, 2012 | Groundwater Level Elevation August 21-22, 2012 | Water Level Reading (Feet Below Top of Casing) October 4, 2012 | Groundwater Level Elevation October 4, 2012 |
|---|---|---|---|---|---|---|
| MT-MW01S | 17.61 | 18 | NM | NM | 5.45 | 12.16 |
| MT-MW02S | 17.76 | 18 | NM | NM | 14.19 | 3.57 |
| MT-MW03S | 3.68 | 30 | NM | NM | *NM | NM |
| MT-MW04S | 12.59 | 25 | NM | NM | 8.99 | 3.60 |
| MT-MW05S | 12.37 | 25 | NM | NM | 5.32 | 7.05 |
| MT-MW06S | 6.79 | 16 | NM | NM | 2.19 | 4.60 |
| MT-MW07S | 16.89 | 35 | 9.34 | 7.55 | 9.79 | 7.10 |
| MT-MW08S | 18.19 | 35 | 9.35 | 8.84 | 10.75 | 7.44 |
| MT-MW09S | 15.33 | 55 | 11.83 | 3.50 | 4.98 | 10.35 |
| MT-MW10S | 15.1 | 40 | 10.94 | 4.16 | 12.05 | 3.05 |
| MT-MW11S | 7.33 | 49 | 1.05 | 6.28 | NM | NM |
| MT-MW12S | 7.55 | 35 | 2.52 | 5.03 | 3.98 | 3.57 |

* - water level above top of casing
NM-Not measured

**Table 4-3**

**Analytes Detected in Groundwater Samples, August 2012**
**Main Terminal Area Phase II Investigation**
**Martin State Airport, Middle River, Maryland**


| SAMPLE ID: | MDE | MT-MW01S-042512 | MT-MW02S-043012 | MT-MW03S-042512 |
|---|---|---|---|---|
| SAMPLE DATE: | GROUNDWATER | 20120425 | 20120430 | 20120425 |
| LOCATION: | STANDARD | MT-MW01S | MT-MW02S | MT-MW03S |
| **VOLATILES (UG/L)** | | | | |
| 1,2,3-TRIMETHYLBENZENE | NA | -- | 2.4 J | -- |
| 1,2,4-TRIMETHYLBENZENE | NA | -- | 9.2 | -- |
| 1,2-DICHLOROETHANE | 5 | -- | 3.8 J | -- |
| 4-ISOPROPYLTOLUENE | NA | -- | 1.6 J | -- |
| 4-METHYL-2-PENTANONE | 630 | -- | 2.5 J | -- |
| ACETONE | 550 | -- | 90 | -- |
| BENZENE | 5 | 0.13 J | 87 | -- |
| CARBON DISULFIDE | 100 | -- | -- | 0.51 J |
| CARBON TETRACHLORIDE | 5 | -- | -- | -- |
| CHLOROFORM | 80 | -- | -- | -- |
| CHLOROMETHANE | 19 | -- | -- | -- |
| CIS-1,2-DICHLOROETHENE | 70 | -- | 4.8 J | -- |
| ETHYLBENZENE | 700 | -- | 180 | -- |
| ISOPROPYLBENZENE | 66 | -- | 31 | -- |
| M+P-XYLENES | NA | -- | 50 | -- |
| NAPHTHALENE | 0.65 | -- | -- | -- |
| N-PROPYLBENZENE | NA | -- | 9.7 | -- |
| O-XYLENE | NA | -- | 22 | -- |
| SEC-BUTYLBENZENE | NA | -- | 0.75 J | -- |
| TOLUENE | 1000 | 0.29 J | -- | -- |
| TOTAL XYLENES | 10000 | -- | 72 | -- |
| TRICHLOROETHENE | 5 | -- | -- | -- |
| **SEMIVOLATILES (UG/L)** | | | | |
| BIS(2-ETHYLHEXYL)PHTHALATE | 6 | NA | NA | NA |
| CAPROLACTAM | NA | NA | NA | NA |

**Table 4-3**

**Analytes Detected in Groundwater Samples, August 2012**
**Main Terminal Area Phase II Investigation**
**Martin State Airport, Middle River, Maryland**
**Page 2 of 6**

| SAMPLE ID: | MDE | MT-MW01S-042512 | MT-MW02S-043012 | MT-MW03S-042512 |
|---|---|---|---|---|
| SAMPLE DATE: | GROUNDWATER | 20120425 | 20120430 | 20120425 |
| LOCATION: | STANDARD | MT-MW01S | MT-MW02S | MT-MW03S |
| **METALS (UG/L)** | | | | |
| ANTIMONY | 6 | -- | -- | 0.21 J |
| ARSENIC | 10 | 4.7 J | 2.3 J | 1.9 J |
| BARIUM | 2000 | 110 | 120 | 26 |
| BERYLLIUM | 4 | 0.59 J | 0.74 J | 0.41 J |
| CADMIUM | 5 | -- | -- | -- |
| CHROMIUM | 100 | -- | -- | 5.3 |
| COBALT | NA | 140 | 30 | 2.3 |
| COPPER | 1300 | 0.6 B | 1.4 B | 7.3 |
| LEAD | 15 | 0.26 B | 1.3 K | 2.6 |
| MERCURY | 2 | -- | -- | -- |
| NICKEL | 73 | 67 | 48 | 5.9 |
| SELENIUM | 50 | -- | -- | -- |
| VANADIUM | 3.7 | 0.94 J | -- | 6 J |
| ZINC | 5000 | 12 B | 100 | 640 |
| **FILTERED METALS (UG/L)** | | | | |
| ANTIMONY | 6 | -- | -- | -- |
| ARSENIC | 10 | 5 K | 1.7 J | 0.86 J |
| BARIUM | 2000 | 120 | 110 | 20 |
| BERYLLIUM | 4 | 0.36 J | 0.68 J | -- |
| CADMIUM | 5 | -- | -- | -- |
| COBALT | NA | 120 | 23 | 1.1 |
| COPPER | 1300 | 0.4 B | 0.62 B | -- |
| LEAD | 15 | -- | 1 K | -- |
| NICKEL | 73 | 55 | 39 | 1.7 J |
| SELENIUM | 50 | -- | -- | -- |
| TUNGSTEN | NA | -- | -- | -- |
| VANADIUM | 3.7 | 0.65 J | -- | -- |
| ZINC | 5000 | 8.3 B | 57 | 860 |
| **MISCELLANEOUS PARAMETERS (UG/L)** | | | | |
| PERCHLORATE | 2.6 | -- | -- | -- |
| **PETROLEUM HYDROCARBONS (UG/L)** | | | | |
| TPH (C06-C10) | 47 | 64 B | 1400 | 49 B |
| TPH (C10-C32) | 47 | 540 B | 3700 | 290 B |

**Table 4-3**

**Analytes Detected in Groundwater Samples, August 2012**
**Main Terminal Area Phase II Investigation**
**Martin State Airport, Middle River, Maryland**


| SAMPLE ID: | MDE | MT-MW04S-042412 | MT-MW05S-042512 | MT-MW06S-042412 | MT-MW07S-082212 |
|---|---|---|---|---|---|
| SAMPLE DATE: | GROUNDWATER | 20120424 | 20120425 | 20120424 | 20120822 |
| LOCATION: | STANDARD | MT-MW04S | MT-MW05S | MT-MW06S | MT-MW07S |
| **VOLATILES (UG/L)** | | | | | |
| 1,2,3-TRIMETHYLBENZENE | NA | -- | -- | -- | -- |
| 1,2,4-TRIMETHYLBENZENE | NA | -- | -- | -- | -- |
| 1,2-DICHLOROETHANE | 5 | -- | -- | -- | -- |
| 4-ISOPROPYLTOLUENE | NA | -- | -- | -- | -- |
| 4-METHYL-2-PENTANONE | 630 | -- | -- | -- | -- |
| ACETONE | 550 | -- | -- | -- | -- |
| BENZENE | 5 | -- | -- | -- | -- |
| CARBON DISULFIDE | 100 | -- | -- | -- | 0.16 J |
| CARBON TETRACHLORIDE | 5 | -- | -- | -- | -- |
| CHLOROFORM | 80 | 0.62 J | -- | -- | -- |
| CHLOROMETHANE | 19 | -- | 0.35 J | 0.47 J | -- |
| CIS-1,2-DICHLOROETHENE | 70 | -- | -- | -- | -- |
| ETHYLBENZENE | 700 | -- | -- | -- | -- |
| ISOPROPYLBENZENE | 66 | -- | -- | -- | -- |
| M+P-XYLENES | NA | -- | -- | -- | -- |
| NAPHTHALENE | 0.65 | -- | -- | -- | -- |
| N-PROPYLBENZENE | NA | -- | -- | -- | -- |
| O-XYLENE | NA | -- | -- | -- | -- |
| SEC-BUTYLBENZENE | NA | -- | -- | -- | -- |
| TOLUENE | 1000 | -- | -- | -- | -- |
| TOTAL XYLENES | 10000 | -- | -- | -- | -- |
| TRICHLOROETHENE | 5 | -- | 0.35 J | -- | -- |
| **SEMIVOLATILES (UG/L)** | | | | | |
| BIS(2-ETHYLHEXYL)PHTHALATE | 6 | NA | NA | NA | 0.91 J |
| CAPROLACTAM | NA | NA | NA | NA | -- |

**Table 4-3**

**Analytes Detected in Groundwater Samples, August 2012**
**Main Terminal Area Phase II Investigation**
**Martin State Airport, Middle River, Maryland**


| SAMPLE ID: | MDE | MT-MW04S-042412 | MT-MW05S-042512 | MT-MW06S-042412 | MT-MW07S-082212 |
|---|---|---|---|---|---|
| SAMPLE DATE: | GROUNDWATER | 20120424 | 20120425 | 20120424 | 20120822 |
| LOCATION: | STANDARD | MT-MW04S | MT-MW05S | MT-MW06S | MT-MW07S |
| **METALS (UG/L)** | | | | | |
| ANTIMONY | 6 | -- | -- | -- | 0.17 J |
| ARSENIC | 10 | 0.71 J | 1 J | 1.5 J | -- |
| BARIUM | 2000 | 76 | 20 | 96 | 20 |
| BERYLLIUM | 4 | 3.3 | 36 | 81 | 3 |
| CADMIUM | 5 | 0.14 J | 0.85 J | 2 | -- |
| CHROMIUM | 100 | -- | -- | -- | 5.2 |
| COBALT | NA | 210 | 430 | 540 | 20 |
| COPPER | 1300 | 43 | 32 | 46 | 3.4 K |
| LEAD | 15 | 0.71 B | 1.3 B | 2.3 | 0.55 J |
| MERCURY | 2 | -- | -- | -- | 0.39 |
| NICKEL | 73 | 330 | 870 | 1200 | 31 |
| SELENIUM | 50 | -- | 0.74 J | 1.2 J | -- |
| VANADIUM | 3.7 | -- | -- | -- | 2.4 J |
| ZINC | 5000 | 340 | 2500 | 1900 | 53 |
| **FILTERED METALS (UG/L)** | | | | | |
| ANTIMONY | 6 | 0.21 B | -- | -- | 0.13 J |
| ARSENIC | 10 | 0.69 J | 1.2 J | 1.3 J | -- |
| BARIUM | 2000 | 76 | 20 | 94 | 17 |
| BERYLLIUM | 4 | 3.1 | 36 | 80 | 2.9 |
| CADMIUM | 5 | 0.23 J | 0.9 J | 2.1 | -- |
| COBALT | NA | 200 | 430 | 530 | 21 |
| COPPER | 1300 | 44 | 35 | 48 | 1.5 B |
| LEAD | 15 | 0.64 B | 1.3 B | 2.3 | -- |
| NICKEL | 73 | 320 | 870 | 1200 | 31 |
| SELENIUM | 50 | -- | -- | 0.63 J | -- |
| TUNGSTEN | NA | 0.78 J | -- | -- | NA |
| VANADIUM | 3.7 | -- | -- | -- | -- |
| ZINC | 5000 | 330 | 2500 | 1900 | 51 |
| **MISCELLANEOUS PARAMETERS (UG/L)** | | | | | |
| PERCHLORATE | 2.6 | -- | -- | 0.16 J | NA |
| **PETROLEUM HYDROCARBONS (UG/L)** | | | | | |
| TPH (C06-C10) | 47 | 49 B | 52 B | 64 B | 36 B |
| TPH (C10-C32) | 47 | 440 B | 430 B | 480 B | 400 B |

**Table 4-3**

**Analytes Detected in Groundwater Samples, August 2012**
**Main Terminal Area Phase II Investigation**
**Martin State Airport, Middle River, Maryland**


| SAMPLE ID: | MDE | MT-MW08S-082212 | MT-MW09S-082112 | MT-MW10S-082212 | MT-MW11S-082112 | MT-MW12S-082112 |
|---|---|---|---|---|---|---|
| SAMPLE DATE: | GROUNDWATER | 20120822 | 20120821 | 20120822 | 20120821 | 20120821 |
| LOCATION: | STANDARD | MT-MW08S | MT-MW09S | MT-MW10S | MT-MW11S | MT-MW12S |
| **VOLATILES (UG/L)** | | | | | | |
| 1,2,3-TRIMETHYLBENZENE | NA | -- | -- | -- | -- | -- |
| 1,2,4-TRIMETHYLBENZENE | NA | -- | -- | -- | -- | -- |
| 1,2-DICHLOROETHANE | 5 | -- | -- | -- | -- | -- |
| 4-ISOPROPYLTOLUENE | NA | -- | -- | -- | -- | -- |
| 4-METHYL-2-PENTANONE | 630 | -- | -- | -- | -- | -- |
| ACETONE | 550 | 2.8 J | 1.9 J | -- | 2.8 J | -- |
| BENZENE | 5 | -- | -- | 1.9 | -- | -- |
| CARBON DISULFIDE | 100 | 1.3 | 2.9 | 0.67 J | 0.46 J | -- |
| CARBON TETRACHLORIDE | 5 | -- | -- | -- | -- | 0.34 J |
| CHLOROFORM | 80 | -- | -- | -- | 0.36 J | 11 |
| CHLOROMETHANE | 19 | 0.37 J | -- | -- | -- | -- |
| CIS-1,2-DICHLOROETHENE | 70 | -- | -- | -- | -- | -- |
| ETHYLBENZENE | 700 | -- | -- | -- | -- | -- |
| ISOPROPYLBENZENE | 66 | -- | -- | -- | -- | -- |
| M+P-XYLENES | NA | -- | -- | -- | -- | -- |
| NAPHTHALENE | 0.65 | -- | -- | -- | -- | 0.54 J |
| N-PROPYLBENZENE | NA | -- | -- | -- | -- | -- |
| O-XYLENE | NA | -- | -- | -- | -- | -- |
| SEC-BUTYLBENZENE | NA | -- | -- | -- | -- | -- |
| TOLUENE | 1000 | 0.16 J | -- | 0.27 J | -- | -- |
| TOTAL XYLENES | 10000 | -- | -- | -- | -- | -- |
| TRICHLOROETHENE | 5 | -- | -- | -- | -- | -- |
| **SEMIVOLATILES (UG/L)** | | | | | | |
| BIS(2-ETHYLHEXYL)PHTHALATE | 6 | 0.79 J | 1.5 J | -- | 1.5 J | 1.1 J |
| CAPROLACTAM | NA | 0.78 J | 1.7 J | -- | -- | -- |

**Table 4-3**

**Analytes Detected in Groundwater Samples, August 2012**
**Main Terminal Area Phase II Investigation**
**Martin State Airport, Middle River, Maryland**


| SAMPLE ID: | MDE | MT-MW08S-082212 | MT-MW09S-082112 | MT-MW10S-082212 | MT-MW11S-082112 | MT-MW12S-082112 |
|---|---|---|---|---|---|---|
| SAMPLE DATE: | GROUNDWATER | 20120822 | 20120821 | 20120822 | 20120821 | 20120821 |
| LOCATION: | STANDARD | MT-MW08S | MT-MW09S | MT-MW10S | MT-MW11S | MT-MW12S |
| **METALS (UG/L)** | | | | | | |
| ANTIMONY | 6 | 0.4 J | 1.9 J | 0.15 J | 1.3 J | 0.49 J |
| ARSENIC | 10 | -- | 0.6 J | 0.56 J | 1.2 J | 0.75 J |
| BARIUM | 2000 | 63 | 59 | 63 | 120 | 100 |
| BERYLLIUM | 4 | -- | 1.8 | 23 | 0.44 J | 4.9 |
| CADMIUM | 5 | -- | -- | -- | -- | 0.75 J |
| CHROMIUM | 100 | 1.8 J | 1.8 J | 2.5 | 21 | 1.2 J |
| COBALT | NA | 5.9 | 7.6 | 250 | 86 | 390 |
| COPPER | 1300 | 2.1 B | 2.2 B | 1.5 B | 2.8 K | 12 |
| LEAD | 15 | 0.29 J | 0.79 J | 0.44 J | 0.76 J | 0.54 J |
| MERCURY | 2 | -- | -- | -- | -- | 0.12 J |
| NICKEL | 73 | 11 | 12 | 380 | 140 | 690 |
| SELENIUM | 50 | -- | 0.62 J | -- | -- | 0.79 J |
| VANADIUM | 3.7 | 0.61 J | 0.84 J | 0.53 J | 2.6 J | 0.87 J |
| ZINC | 5000 | 12 B | 43 | 370 | 160 | 670 |
| **FILTERED METALS (UG/L)** | | | | | | |
| ANTIMONY | 6 | 0.31 J | 3 | 0.14 J | 1.1 J | 0.28 J |
| ARSENIC | 10 | -- | 0.52 J | -- | 0.74 J | -- |
| BARIUM | 2000 | 62 | 47 | 62 | 110 | 110 |
| BERYLLIUM | 4 | -- | 1.7 | 22 | -- | 1.9 |
| CADMIUM | 5 | -- | -- | -- | -- | 0.42 J |
| COBALT | NA | 5.5 | 7.5 | 250 | 54 | 400 |
| COPPER | 1300 | 1.4 B | 0.41 B | 0.29 B | 0.39 B | 0.31 B |
| LEAD | 15 | -- | -- | -- | -- | -- |
| NICKEL | 73 | 11 | 12 | 370 | 83 | 680 |
| SELENIUM | 50 | -- | -- | -- | -- | -- |
| TUNGSTEN | NA | NA | NA | NA | NA | NA |
| VANADIUM | 3.7 | -- | -- | -- | 0.89 J | -- |
| ZINC | 5000 | 12 B | 43 | 360 | 11 B | 580 |
| **MISCELLANEOUS PARAMETERS (UG/L)** | | | | | | |
| PERCHLORATE | 2.6 | NA | NA | NA | NA | NA |
| **PETROLEUM HYDROCARBONS (UG/L)** | | | | | | |
| TPH (C06-C10) | 47 | 40 B | 56 B | 41 B | 61 B | 64 B |
| TPH (C10-C32) | 47 | -- | 470 B | 330 B | 410 B | 240 B |

MDE - Maryland Department of the Environment, June 2008
-- - Not detected at listed detection limit
B - Laboratory blank contamination
J - Positive result is considered estimated as a result of technical noncompliance.
K - Positive result is considered to be biased high as a result of technical noncompliance.
Gray shading indicates the value exceeds screening criteria.

*u* g/L - microgram per liter
NA - not available

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Figure 4-1

Figure 4-2

Figure 4-3

Figure 4-4

Figure 4-5

Table 4-1

Table 4-2

Table 4-3

# Section 5
# Summary and Recommendations

A supplemental Phase II investigation of the Main Terminal Area of Martin State Airport (MSA) was conducted in July and August 2012 to identify and characterize possible chemical contamination in soil and groundwater. The soil boring and well locations were completed based on the results of the soil gas, membrane-interface probes (MIPs), and groundwater analyses obtained during the 2011 Main Terminal Phase II investigation. The recognized environmental conditions (RECs) specifically investigated as part of this supplemental Phase II investigation include: REC #2 (former fueling station B at hangar 6 apron); REC #3 (former fueling and defueling pits and fuel-oil underground storage tanks [USTs] at hangar 1); REC #9 (hangars 4 and 5 Heating/Boiler Rooms); REC #15 (former fuel oil USTs at hangar 6); and REC #21 (hangar 5 painting/stripping area and acid-neutralization system). In addition, the six wells installed as part of the main terminal Phase II site investigation were sampled during the Martin State Airport annual monitoring program.

## 5.1 SUMMARY

Here is a summary of the 2012 main terminal characterization activities:

- obtained utility clearances and associated permits for intrusive investigations from Lockheed Martin Corporation, Martin State Airport, and Maryland Aviation Administration (MAA) (as applicable)

- advanced five soil borings to a terminal depth of 25 feet below ground surface and collected soil samples using direct-push technology (DPT) to assess chemical impacts in soil. The proposed soil boring locations were selected based on a review of soil gas and membrane-interface probe data collected and evaluated from the RECs (RECs #2, 3, 9, and 21) in the 2011 Phase II investigation. Soil samples were collected for chemical analyses.

- installed six two-inch-diameter groundwater monitoring wells using a low-profile mini-sonic rig

- collected and analyzed groundwater samples and water levels from the six new wells and the six wells installed in 2011

- surveyed soil boring and monitoring well locations using a Maryland-licensed surveyor

- collected, stored, and characterized investigation-derived waste (IDW) and disposed of it at an off-site Lockheed Martin Corporation-approved treatment or disposal facility

- performed laboratory chemical analyses and chemical-data validation on soil and groundwater samples

A summary of the 2012 findings follows:

- Volatile organic compounds were detected at low concentrations in five of 10 soil samples. All detected concentrations are less than residential soil standards.

- Two soil samples from boring SB-17 (MT-SS17-0-2 and MT-SS17-8-10) had semivolatile organic compound concentrations exceeding Maryland Department of the Environment (MDE) residential soil standards, but no samples had results exceeding non-residential standards. Because these concentrations do not exceed non-residential standards, these results support the conclusion that significant petroleum contamination has not been detected in this area.

- Total petroleum hydrocarbons (TPH)-diesel-range organic (DRO) results exceed its residential standard (230 milligram per kilogram [mg/kg]) in one soil sample (MT-SS17-0-2 at 240 mg/kg), whereas concentrations of TPH-gasoline-range organics (GRO) are below screening criteria in all samples. These results support the conclusion that significant petroleum contamination has not been detected in this area.

- Although detected total concentrations of arsenic, vanadium, and chromium in some soil samples exceed regulatory standards, these relatively high concentrations are more likely related to natural background rather than historical industrial activities conducted on site.

- Other metals were detected in these samples, but at concentrations not exceeding regulatory standards. These metals include barium, beryllium, cobalt, copper, lead, nickel, selenium, and zinc.

- During the April 2012 sampling event, one VOC (benzene) exceeded the MDE groundwater standard. Benzene was detected at a concentration of 87 micrograms per liter (µg/L) in well MW-02S, which is consistent with the concentration of 50.5 µg/L detected during the previous June 2011 sampling event.

- Eight different VOCs (acetone, benzene, carbon disulfide, carbon tetrachloride, chloroform, chloromethane, naphthalene, and toluene) were detected in groundwater samples during the August 2012 sampling event. None of the detected volatile organic compounds concentrations exceeds its respective Maryland Department of the Environment groundwater standard.

- During the August 2012 sampling event, no semivolatile organic compounds were detected above their respective Maryland Department of the Environment groundwater standards. 1,4-Dioxane was not detected in any groundwater samples from the April or August 2012 sampling events.

- Groundwater samples were analyzed for both total (i.e., unfiltered) and dissolved (i.e., filtered) metals. Thirteen metals were detected at varying concentrations in groundwater samples collected from the previously installed monitoring wells (MW-01S through MW-06S), and 14 metals were detected at varying concentrations in groundwater samples collected from the newly installed monitoring wells (MW-07S through MW-12S). Three metals (beryllium, nickel and vanadium) were detected at concentrations exceeding Maryland Department of the Environment groundwater standards.

- Beryllium exceeded the Maryland Department of the Environment standard (4 µg/L) in four unfiltered samples: MT-MW05S (36 µg/L), MT-MW06S (81 µg/L), MT-MW10S (23 µg/L) and MT-MW12S (4.9 µg/L); and in three filtered samples: MT-MW05S (36 µg/L), MT-MW06S (80 µg/L), and MT-MW10S (22 µg/L).

- Nickel exceeded its standard (73 µg/L) in both unfiltered and filtered samples collected from wells MT-MW-04S (330 µg/L and 320 µg/L, respectively), MT-MW-05S (870 µg/L and 870 µg/L, respectively), MT-MW-06S (1,200 µg/L and 1,200 µg/L, respectively), MT-MW-10S (380 µg/L and 370 µg/L, respectively), MT-MW-11S (140 µg/L and 83 µg/L, respectively), and MT-MW-12S (690µg/L and 680µg/L, respectively).

- Vanadium exceeded the Maryland Department of the Environment standard (3.7 µg/L) in one unfiltered sample (MT-MW03S), at an estimated concentration of 6.0 µg/L.

- TPH-GRO was detected in one well (MT-MW02S) at a concentration of 1,400 µg/L, which is more than 30 times its Maryland Department of the Environment groundwater standard (47 µg/L). This concentration is similar to the 1,540 µg/L detected during the previous June 2011 sampling event. TPH-DRO was also detected in one well (MT-MW02S) at a concentration of 3,700 µg/L, which is approximately 80 times its Maryland Department of the Environment groundwater standard (47 µg/L). This concentration is similar to the 4,900 µg/L detected during the previous June 2011 sampling event.

- Samples from monitoring wells MT-MW-01S through MT-MW06S sampled in April 2012 were analyzed for hexavalent chromium and perchlorate. Hexavalent chromium was not detected in any of the six samples, and perchlorate was detected in one sample (MT-MW06S) at an estimated concentration of 0.16 µg/L.

## 5.2 RECOMMENDATIONS

Supplemental data collected at the Main Terminal Area during July–August 2012 do not reveal any significant additional contamination in RECs #2, 3, 9, 15, and 21. Based on the findings summarized in Section 4, we recommend no further site characterization; however, we also recommend future monitoring of existing groundwater monitoring wells to document chemical concentrations over time.

# Section 6
# References


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13. Tetra Tech, Inc. (Tetra Tech), 2010c. *Remedial Investigation Report, Martin State Airport, 701 Wilson Point Road, Middle River, Maryland*. Report prepared by Tetra Tech, Inc., Germantown, Maryland for Lockheed Martin Corporation, Bethesda, Maryland. November.

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17. United States Environmental Protection Agency (USEPA), Region 3, 1994. *Region III Modifications to the National Functional Guidelines for Organic Data Review*. September.

18. Vroblesky, D. A and W. B. Fleck, 1991. *Hydrogeologic Framework of the Coastal Plain of Maryland, Delaware, and the District of Columbia Regional Aquifer System Analysis, Northern Atlantic Coastal Plain.* U.S. Geological Survey Professional Paper 1404E. U.S. Government Printing Office, Washington, D.C. 45 pp.

# APPENDIX A—
# PERMITS, MISS UTILITY CLEARANCE, AND UTILITY-CLEARANCE REPORT

Maryland Aviation Administration

Martin O'Malley
Governor

Anthony G. Brown
Lt. Governor

Beverley K. Swaim-Staley
Secretary

Paul J. Wiedefeld
Executive Director

June 8, 2012

Mr. Tony Apanavage
Tetra Tech
20251 Century Boulevard Suite 200
Germantown, Maryland 20874

Dear Mr. Apanavage:

**SUBJECT: Permit BP-12-023 Geotechnical Investigations for Martin State Airport Main Terminal Areas**

Please find enclosed the approved Permit for the above referenced project. Permit approval is subject to compliance with provisions and stipulations contained in the Permits Information Guide and Tenant Directive 007.01. The issuance or granting of this permit shall not be construed to be an approval of any violation of other Maryland Aviation Administration (MAA) or Code of Maryland (COMAR) regulations. MAA reserves the right to suspend or revoke the permit whenever it is deemed to be issued on the basis of incorrect, inaccurate or incomplete information provided by the applicant.

Please see the attached list of MAA departments and offices that need to be contacted prior to the start of work. Also, please refer to the Permits Information Guide to see if any other permit or authorization is required. The approved Permit, Permit Plan Set and Permit Comments shall be kept at the project location until the completion of the project. Revisions to design shall be submitted to and approved by MAA Division of Document & Permits prior to construction. ***As Built Drawings are to be received no later than 70 days from Final Inspection acceptance.***

This permit shall become invalid unless the work on the site authorized by this permit is commenced within 180 days after issuance, or if the work is suspended or abandoned for a period of 180 days after the work is commenced. The issuance of this permit shall not relieve the applicant from his/her responsibility to ensure proper design and construction of this project.

Sincerely,

Syed Shariq R.A., Manager
Division of Documents & Permits

# MARYLAND DEPARTMENT OF TRANSPORTATION
# MARYLAND AVIATION ADMINISTRATION

# CONSTRUCTION PERMIT

| | |
|---|---|
| X | **Building Permit** |
| | **Installation Permit** |
| | **Single Trade Permit** |
| | **Demolition Permit** |

## Permit Information

| | | | |
|---|---|---|---|
| Project Name: **Geotechnical Investigation at MTN** | Airport: | | BWI |
| | | X | MTN |
| Project Location: **Main Terminal Areas Hangars 1,4,5 &6** | Tenant Space No. | | |
| Permit Issued to: **Lockheed Martin / Tetra Tech** | Tel.: 301-233-8230 | | |
| | E-mail: tony.apanavage@tetratech.com | | |
| Contact Person: **Tony Appanavage** | Tel.:301-233-8230 | | |
| | E-mail: | | |
| Mailing Address: **20251 Century Boulevard Suite 200 Germantown MD 20874** | Emergency Tel. Number: **301-233-8230** | | |

## Contractor/ Installer

| | |
|---|---|
| Construction Company/Organization: **Boart Longyear** | MD Const. License No: MWD 575 |
| | Expiration: 6-1-2013 |
| Address: | Tel: 740-373-2190 |
| | E-mail: |
| Contact Person: **Larry Hunsberger/Jim McCombs** | Emergency Tel. Number:740-350-6611 |
| | **E-mail: jim.mccombs@boartlongyear.com** |

## Additional Permits/Authorizations Required Prior to Start of Work

| | | | |
|---|---|---|---|
| **Airport Zoning Permit** | X if applicable | **Hot Work/Welding Permit/ Hydrant Use Permit** | X |
| *Contact MAA Fac. Planning: 410-859-7793* | | Contact BWI Fire & Rescue: 410-859-7511 | |
| **Utility Modification/Digging Authorization** | X | **Department of Health Approval** | |
| Contact MAA Inspections: 410-859-7796 | | *Contact AA County DOH: 410-222-7238* | |
| **Confined Space Entry Permit** | | **Liquor License** | |
| *Contact MAA Inspections: 410-859-7796* | | *Contact AA County Liquor Board: 410-222-1148* | |
| **State Highway Admin. Access Permit** | | **MAA Tenant Advisory** | X |
| *Contact State Highway Administration* | | *Contact MAA Operations: 410-859-7974* | |

**Call MAA Division of Documents & Permits to schedule a Preconstruction Meeting Before Start of Work**

| | |
|---|---|
| **Approval** | Permit No. **BP-12-023** |
| Syed Sharif, R.A.<br>Manager, Division of Documents & Permits | Date Issued: 6-8-12 |

**THIS PERMIT IS ISSUED BY MARYLAND AVIATION ADMINISTRATION AS AUTHORIZATION TO PERFORM APPROVED CONSTRUCTION ACTIVITIES AS DESCRIBED AND SHOWN ON APPROVED PERMIT PLANS AND SPECIFICATIONS**

**Building Permit No. BP-12-023** is ***approved as noted*** and subject to compliance with the applicable codes, MAA Design Standards and the follow comments:

1. Contact Airport Operations 48 hours prior to working on or near Taxilane "K" or disrupting any landside traffic flow

## GENERAL COMMENTS

1. Applicable Codes & Regulations as per Tenant Directive 007.1 apply.
2. Display MAA Permit on site at all times
3. Secure all tools and equipment in public/sterile areas and ensure that all doors are locked when no one is present in the construction area. No tools are to be left unattended. Follow proper escort procedures in the SIDA.
4. All loose debris/trash, on or about AOA, shall be deposited in an acceptable, covered trash receptacle. No debris/trash shall be left about roof; spaces open to the AOA, conveyance, or near open trash receptacles at any time.
5. Firestop penetrations through fire rated assemblies and seal all unused/abandoned openings using appropriate UL-listed firestopping systems.
6. Sleeves:
   - Sleeves shall be installed for cable and raceway penetrations of concrete slabs, masonry and fire rated gypsum walls and other floor and wall assemblies.
   - Sleeves will be installed during erection of concrete and masonry walls.
   - Sleeves shall be installed in concrete slabs supported by pan decking to ensure full sealing of the uneven lower surface around the pan.
   - New concrete slabs are acceptable to be poured with the concrete surrounding the new conduit without the use of sleeves.
7. Provide support to structural member for any mechanical, electrical or other building elements not scheduled for removal but attached to items being demolished.

8. Core drilling, concrete floor cutting or other removal methods (on-grade, elevated, and post tensioned) shall be preceded by NDT to show that no embedded conduits or structural reinforcing will be disturbed in the proposed locations. The MAA Design Standard DST 2007-01 Core Drilling of Concrete Floors shall be used as reference.

9. Electrical:
   - Electrical, communication, security or fire safety wiring/systems shall not be interrupted without notification and coordination with authority having jurisdiction and written approval by said authority.
   - MC/FMC ¾ inch minimum size, 6 foot maximum length; except as allowed to fish existing walls per MAA Design Standards. Cont'
   - Raceway size shall be ¾" minimum.
   - All conduit fittings shall be steel.
   - All wire/cable shall be plenum rated.
   - Only brushed stainless steel device covers allowed.
   - Exothermic weld required for electrical grounding to building steel per MAA-DST.
   - Install expansion joints at points required.
10. Mechanical/Plumbing:
    - Roof mounted equipment issues:
      -Gas pipe exposure on the roof shall be minimized.
      -Roof mounted equipment condensate drains shall be routed to the nearest roof drain.
      -Condensate drains shall not rest directly on the roof.
      -Existing roof warranties shall be maintained.
    - High pressure stainless steel couplings shall be used on all sanitary waste and vent piping.
11. Hot Work & Welding:
    - Open flame welding and cutting shall not be allowed without burning permit as issued.
    - During flame welding and flame/mechanical cutting operations install protective weld screens and non-flammable fire protection blankets.

Maryland Aviation Administration

Martin O'Malley
Governor

Anthony G. Brown
Lt. Governor

Beverley K. Swaim-Staley
Secretary

Paul J. Wiedefeld, A.A.E.
Executive Director

June 12, 2012

**Sent VIA Email:** tony.apanavage@tetratech.com
Mr. Tony Apanavage
Tetra Tech
20251 Century Boulevard, Suite 200
Germantown MD 20874

Dear Mr. Apanavage:

SUBJECT: Airport Zoning Permit No. 12-111 (Drilling Rig Operation at Martin State Airport (MTN), Terminal Location)

Maryland Aviation Administration's (MAA) Office of Planning and Environmental Services (OPES) has received and reviewed the subject Airport Zoning Permit and determined that the proposed project lies within the MTN Airport Zoning District. To ensure the safety of the traveling public, the Code of Maryland Regulations (COMAR) authorizes MAA to review each project proposed within the Airport Zoning District, which is defined as the area within 3.3 miles of a fixed point on MTN.

The MAA has reviewed the application to ensure that the proposed project poses no hazard to the airspace surrounding MTN. The MAA analysis revealed that the drilling rig operation of 35 feet AGL/49 feet MSL would not be an obstruction to the Federal Aviation Regulations (FAR) Part 77 surfaces.

The MAA hereby approves application No. 12-111 for the drilling rig operation of 35 feet AGL/49 feet MSL. If you have any questions concerning this review, please contact me at 410-859-7692.

Sincerely,

J. Richard Shepley, Airport Planner
Division of Airport Facilities Planning

Enclosures

cc: Mr. Charles Baublitz, Chief, Airport Operations, MTN, **Sent VIA Email Only**

# MARYLAND DEPARTMENT OF TRANSPORTATION
# MARYLAND AVIATION ADMINISTRATION

## *APPLICATION FOR AIRPORT ZONING PERMIT*

Approval of this application is not a substitute for any other permits or approvals required by the State or Local Jurisdiction.

**Section I:** *Administrative Use Only*

PERMIT NO. 12-111 MARYLAND AIRPORT ZONING PERMIT

Application No.:

Date Received: 6-6-12 Date Issued: 6-12-12

Airport: ☐ BWI ☐ Martin State ☐ Other

County: ☐ Anne Arundel ☐ Howard ☐ Baltimore ☐ Other

Approval Required: ☐ Noise Zone ☐ Obstructions

**Section II:** ***Applicant Information*** MAIN TERMINAL

1.) Application for (Check One)
(For the purposes of this form antenna, satellite dish, HVAC equipment, etc., should be considered "structures.")

☐ New Subdivision (Plat Approval) Subdivision No.: _____

☐ Structure Only ☐ Structure + Crane County Permit No.: _____

☒ Crane Only, for construction or installation that will not add height to an existing structure.

RECEIVED JUN - 6 2012 MD Aviation Administration PLANNING & ENGINEERING

2.) Location: **Required:** ADC Map reference Martin State Airport

**In addition, please complete at least one of the following types.**

a) Tax Map, Grid _____, Parcel _____, Lot/block (if any) _____

b) Street Address 701 Wilson Point Road, Baltimore, MD 21220

c) N.S.E.W. side of _____, @ _____ ft. from intersection with _____

_____

***For Structures***

3.) Type of improvement: ☐ New Building ☐ Addition ☐ Alteration ☐ Repair ☒ Other

4.) Contract price or estimated value of improvement: $100,000

5.) Proposed Use(s):

a) Residential: ☐ One family ☐ Two Family ☐ Multi-family (No. units _____) ☐ Other

b) Non-residential:

☐ Hospital, Nursing Home, Institution

☐ School, Library, Church, Place of Assembly

☐ Hotel, Motel, Transient Lodging

☐ Outdoor Spectator Sports, Park, Playground

☐ Office, Store, Theater, Restaurant

☐ Agriculture, Industry: type: _____

☐ Tower, Tank: type: _____

☒ Other Environmental Investigation

_____

6.) Describe proposed structures: No permanent structures will be installed above grade for this project

_____

7.) Present use if different from proposed: _____

8.) Size of Structure: Height _____, Length _____, Width _____

A site plan showing the property boundaries and the location of any existing/proposed structures is required with application.

***Elevations***

*MLS=Mean Sea Level. All height restrictions in the vicinity of the airport use MSL as a reference point. If you do not know the elevation of your site, you can obtain this information at the County Office of Planning & Code Enforcement, Map Room.

9.) Ground elevation of site: 9 ft MSL*

10.) Maximum elevation: (Height of structure + elevation of site) 9 ft (all permanent work will be finished at or below grade) _____ MSL*

***For Cranes***

11.) Ground elevation at crane location: Drill rig mast 9 ft MSL@ Martin State Airport

12.) Height of crane(s) 35 ft

13.) Maximum elevation: (ground elevation + height of crane) 44 ft MSL*

The applicant hereby certified and agrees as follows: 1) that he/she is authorized to make this application; 2) that the information is correct; 3) that he/she will comply with all regulations that are applicable hereto; and 4) that he/she will perform no work on the subject property not specifically described in this application.

APPLICANT (Please Print)

Tetra Tech on behalf of Lockheed Martin

Address: 20251 Century Blvd, Suite 200

| City | State | Zipcode |
|---|---|---|
| Germantown | MD | 20874 |

Phone No.: 301-528-3021 office 301-233-8230 cell

Signature: [signature] 5/15/12

Connection to Property: Environmental consultant to Lockheed Martin

PROPERTY OWNER (Please Print)

Martin State Airport

Address: 701 Wilson Point Road

| City | State | Zipcode |
|---|---|---|
| Baltimore | MD | 21220 |

**Section III *Approvals***

Obstruction: ☑ Approved for maximum height of 49' MSL ☐ Denied ☐ N/A

By: J. Kirk Shipley Date: 6-12-12

Noise: ☐ Approved ☐ Denied ☑ N/A

By: J. Kirk Shipley Date: 6-12-12

Approval of this application, if granted, will terminate if construction does not begin within one year of approved date.
Approval of this permit does not preclude disturbance of applicant or occupants from aircraft operations. Please return application to: Maryland Aviation Administration, Aircraft Noise & Abatement Office, P.O. Box 8766, BWI Airport, MD 21240. Please direct inquiries to 410-859-7070.

# MARYLAND DEPARTMENT OF TRANSPORTATION
# MARYLAND AVIATION ADMINISTRATION

Division of Documents & Permits
P.O. Box 8766, BWI Airport
Maryland 21240-0766
Tel. 410-859-7796
Fax: 410-859-5440

## APPLICATION FOR BUILDING PERMIT

**GENERAL INFORMATION** (To be completed by the applicant, please print)

| | |
|---|---|
| Project Name: Main Terminal Investigation | Airport: ☐ BWI X MTN |
| Project Location (Bldg./Terminal, Level, Holdroom, Room No. etc.): Near Hangars 1, 4, 5 and 6 and near TWY K | Tenant Space No.: |
| Name of Tenant: On behalf of Lockheed Martin | Tel.: 301-233-8230 |
| | E-mail: tony.apanavage@tetratech.com |
| Applicant/Contact Person: Tony Apanavage | Tel.: 301-528-3021 |
| Representing: Tetra Tech on behalf of Lockheed Martin | Cell No.: 301-233-8230 |
| Mailing Address: 20251 Century Blvd, Suite 200, Germantown, MD 20874 | Fax: 301-528-3000 |
| | E-mail: tony.apanavage@tetratech.com |
| Brief Description of Project: 5 soil borings and 6 groundwater monitoring wells will be installed for an environmental investigation. | **Check Appropriate Box:** MAA ☐ Funding Source: Existing Tenant X New Tenant ☐ |
| Estimated Cost of Construction (**Required**): $100,000 | |
| Name of Architect/Engineer: Tetra Tech | Tel.: 301-233-8230 |
| Address: 20251 Century Blvd, Suite 200, Germantown, MD 20874 | Fax: 302-528-3000 |
| | E-mail: tony.apanavage@tetratech.com |
| Name of Contact: Tony Apanavage | |
| Name of Contractor: Boart Longyear | Tel.: 740-373-2190 |
| | Cell/Emergency No: 740-350-6611 |
| Name of Contact: Larry Hunsberger/Jim McCombs | E-mail: Jim.Mccombs@boartlongyear.com |
| Maryland Contractor's License Number: MWD575 | Expiration Date: 06/01/2013 |
| * Attach Photocopy of Current MD Contractors License and Insurance Certificate. | |

Maryland Aviation Administration
AIRPORT FIRE & RESCUE DEPARTMENT
FIRE PREVENTION DIVISION
☐ REJECTED W[illegible]
☐ REVISE AS NOTED AND RESUBMIT AS REQUIRED
☐ APPROVED WITH REQUIRED REVISIONS
☐ APPROVED AS SUBMITTED 5/30/12
BY [signature] AM-11

**Check Appropriate Box:**

| | Yes | No | | Yes | No |
|---|---|---|---|---|---|
| Will a crane be used during construction? | ☐ | X | Will the work be done in a "Confined Space"? | ☐ | X |
| Will the work involve "Hot Work/Welding"? | ☐ | X | Will the work involve Trenching and Excavation? | ☐ | X |
| Will rooftop equipment be provided? | ☐ | X | | | |

If the answer to any of these questions is Yes, additional permits or authorizations may be required. (See Permit Information & Guidelines for definitions and list of supplementary permits).

Applicant's Signature: [signature] Date: 5/15/12

**FOR OFFICE USE ONLY**

| | Yes | No | | Yes | No |
|---|---|---|---|---|---|
| Complete Application Form | ☐ | ☐ | Safety Plan | ☐ | ☐ |
| Insurance Certification | ☐ | ☐ | Commercial Management Authorization | ☐ | ☐ |
| Copy of Contractor's License | ☐ | ☐ | Check List | ☐ | ☐ |
| Dwgs. Stamped by Licensed Architect/Engineer | ☐ | ☐ | CD | ☐ | ☐ |

RECEIVED
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DIVISION OF DOCUMENTS & PERMITS

| | |
|---|---|
| Permit Coordinator: | Date: |
| Date Received: | BP Number: BP 12 023 |
| Date of Meeting: | |
| Date of Release: | |

**MARYLAND DEPARTMENT OF TRANSPORTATION**
**MARYLAND AVIATION ADMINISTRATION**

# UTILITY MODIFICATION/DIGGING AUTHORIZATION

**Tenant Improvements Section**
P.O. Box 8766, BWI Airport
Maryland 21240-0766
Tel.: 410-859-7796
Fax: 410-859-5440
E-mail address:
MAATIS@Bwiairport.com

**GENERAL INFORMATION** (To be completed by the applicant, please print)

Project Name: Soil and groundwater environmental investigations

Airport: ☐ BWI ☒ MTN

Project Location (Bldg./Terminal, Level, Holdroom, Room No. etc.):
Main Terminal near hangars 1, 4, 5, 6 and tax

Tenant Space No.:
NA

Name of Tenant:
Lockheed Martin

Tel.:
E-mail:

Applicant/Contact Person: Tony Apanavage

Tel.: 301-528-3021

Contractor: Tetra Tech

Cell: 301-233-8230

Mailing Address:

Fax:

E-mail:

**STEP 1**

**Scope:** *(Define Scope and Boundaries of Proposed Work. Attach Drawings or Sketches as Required.)*
Reference Fire Marshal approved drawings 5/30/2012

| **Utilities: List all Utilities as Identified in Contract Drawings** | **Contract Drawing Reference** |
|---|---|
| | |

**STEP 2** *Gray areas to be filled out by MAA Inspector*

| | | | |
|---|---|---|---|
| MAA Utilities* | Name: [illegible] | Signature: Charles Baublitz | Date: 6/14/12 |
| MAA Design* | Name: | Signature: | Date: |
| MAA IT* | Name: | Signature: | Date: |
| FAA * | Name: | Signature: | Date: |
| BGE | Name: | Signature: | Date: |
| MISS UTILITY | Name: | Signature: | Date: |

**List additional utilities identified by MAA/PB/FAA/BGE/Miss Utility/Others**

**STEP 3**

The following utilities have been test pitted, located, and identified (Digging authorization is subject to resubmission if utilities require re-marking and re-test pitting due to removal or disturbance of identifying markers)

**Signature of Contractor:** **Date:**

*MAA/FAA sign off does not necessarily indicate accuracy of information but rather denotes that there are no known utilities other than those that may be listed. MAA/FAA and their employees and authorized agents are not liable for accurately identifying or locating any or all utilities. MAA/FAA sign-offs do not relieve the Contractor of responsibility for locating and protecting all utilities near the work. Contractor should use extreme caution for all underground work; cutting or damaging utilities could result in, among other things, disruption of service at the airport.

**FOR OFFICE USE ONLY**

**Signature of Inspector** **Date:**

Name of Inspector: *Print*
Date Application Received:
Date Application Approved/Denied:

**BP/IP Number:** BP-12-023

ENVIROSCAN, INC.

# Final Report
# Geophysical Survey
# Utility/Structure Clearance for 5 Soil Borings and 6 Monitoring Wells
# RFP # 357691 Martin State Airport
# Middle River, MD
# Enviroscan Reference Number 071202

**Prepared For: Tetra Tech NUS, Inc.**
**Prepared By: Enviroscan, Inc.**
**July 27, 2012**

1051 Columbia Avenue • Lancaster, PA 17603 • 717.396.8922 • Fax 717.396.8746 • email@enviroscan.com • www.enviroscan.com

ENVIROSCAN, INC.

July 27, 2012

Mr. Tony Apanavage
**Tetra Tech NUS, Inc.**
20251 Century Boulevard
Suite 200
Germantown, MD 20874-7114

**RE:** Geophysical Survey
Utility/Structure Clearance for 5 Soil Borings and 6 Monitoring Wells
RFP # 357691 Martin State Airport
Middle River, MD
Enviroscan Reference Number 071202

Dear Mr. Apanavage,

Pursuant to the specifications of our proposal, dated July 2, 2012, Enviroscan, Inc. conducted a multi-technique geophysical survey at the above-referenced site on July 3, 2012. The purpose of the survey was to perform utility clearance for 11 proposed soil borings.

## Methods

The utility survey was completed using standard and/or routinely accepted practices of the geophysical industry and equipment representing the best available technology, including:

- a Radiodetection RD8000 Multi-Frequency pipe and cable tracer;
- a Radiodetection C.A.T. and Genny pipe and cable locator/tracer;
- a Fisher TW-6 electromagnetic (EM) pipe and cable locator/tracer;
- a GSSI SIR-2000 ground penetrating radar (GPR) system.

The principles of these techniques are detailed below.

## RD8000

Utility tracing was conducted using a Radiodetection RD8000 digital cable and pipe tracer. The transmitter can be directly coupled to exposed portions of a metallic pipe, cable, or wire or indirectly (inductively) to a subsurface metallic utility of known location/orientation. The transmitter remains stationary and energizes the metallic utility at a frequency selected by the operator (512 Hz, 8 kHz, 33 kHz, or 65 kHz), which is received at the ground surface by the digital locator. When the transmitter is directly coupled to the metallic utility, the digital receiver can also calculate the depth of the utility to an accuracy of ±10% of the actual depth of the utility. Please note the close proximity to bends in the traced line or poor signal strength can result in erroneous depth estimations.

## C.A.T. and Genny

The survey areas were also scanned with a Radiodetection C.A.T. and Genny pipe and cable locator and tracer. In Power mode, the C.A.T. detects the 50 to 60 Hertz (Hz) electromagnetic field generated by live power cables and other metallic utilities to which a live line is grounded. In Radio mode, the C.A.T. detects buried conductors (cables or metallic pipes) as they conduct and re-transmit commercial broadcast radio energy. In Genny mode, the C.A.T. detects signal generated by the Genny transmitter. The Genny transmitter can be coupled directly (conductively) to exposed portions of a metallic pipe, cable, or wire or inductively to a subsurface metallic utility with known location and orientation.

## TW-6

In order to detect unknown utilities, Enviroscan employed a Fisher TW-6 pipe and cable locator and tracer. In pipe and cable search mode, the TW-6 is essentially a deep-sensing metal detector that detects any highly electrically conductive materials (e.g. metals) by creating an electromagnetic field with a transmitting coil. A receiving coil at a fixed separation from the transmitter measures the field strength. As the instrument is swept along the ground surface, subsurface metallic bodies distort the transmitted field. The change in field strength/orientation is sensed by the receiver, setting off an audible alarm and/or causing deflection of an analog meter. The TW-6 can nominally detect a 2-inch metal pipe to a depth of 8 feet and a 10-inch metal pipe to a depth of 14 feet.

In pipe and cable tracing mode, the TW-6 transmitter can be coupled directly (conductively) to exposed portions of a metallic pipe, cable, or wire or inductively to a subsurface metallic utility with known location and orientation. The transmitter remains stationary and energizes or excites the metallic utility to be traced with an 81.92-kilohertz signal that can be traced at the ground surface using the mobile TW-6 receiver wand or probe.

### GPR

GPR systems produce cross-sectional images of subsurface features and layers by continuously emitting pulses of radar-frequency energy from a scanning antenna as it is towed along a survey profile. The radar pulses are reflected by interfaces between materials with differing dielectric properties. The reflections return to the antenna and are displayed on a video monitor as a continuous cross section in real time. Since the electrical properties of metal are distinctly different from soil and backfill materials, metallic pipes and other structures commonly produce dramatic and characteristic reflections. Fiberglass, plastic, concrete, and terra-cotta pipes and structures also produce recognizable, but less dramatic reflections. Scanning was performed using a GSSI SIR-2000 GPR controller with an internal hard drive and a color display, and both a high-frequency, high-resolution 500 megaHertz (MHz) antenna or transducer, and a lower frequency deep-penetrating 200 MHz transducer.

## Results Summary

The utility clearance survey results are depicted in four separate panels in Figure 1 for the borings around the Main Terminal Area. The mapped utilities located during the survey are overlain on a basemap of the site. Several proposed borings needed to be relocated due to nearby utilities. These new locations are noted in Table 1. Please note that the new coordinates of boring locations moved during geoprobing (by others) to avoid marked utilities or obstructions to drilling do not appear on Table 1.

## Limitations

The above-referenced geophysical survey was completed using standard and/or routinely accepted practices of the geophysical industry and equipment representing the best available technology. Enviroscan does not accept responsibility for survey limitations due to inherent technological limitations or unforeseen site-specific conditions. However, we make every effort to identify and notify the client of such limitations or conditions. In particular, please note the following specific limitations and recommendations:

- Enviroscan's field markings should be considered accurate to within approximately +/-18 inches for single lines. In contrast, since electromagnetic tracing of duct banks provides only a centerline, the bank itself may extend for 2 to 3 feet beyond the marked trace.

- The completion of this survey does not relieve any party of applicable legal obligations to notify the appropriate One-Call center prior to digging or drilling.

As always, we appreciate this opportunity to have worked with you. If you have any questions, please do not hesitate to contact me.

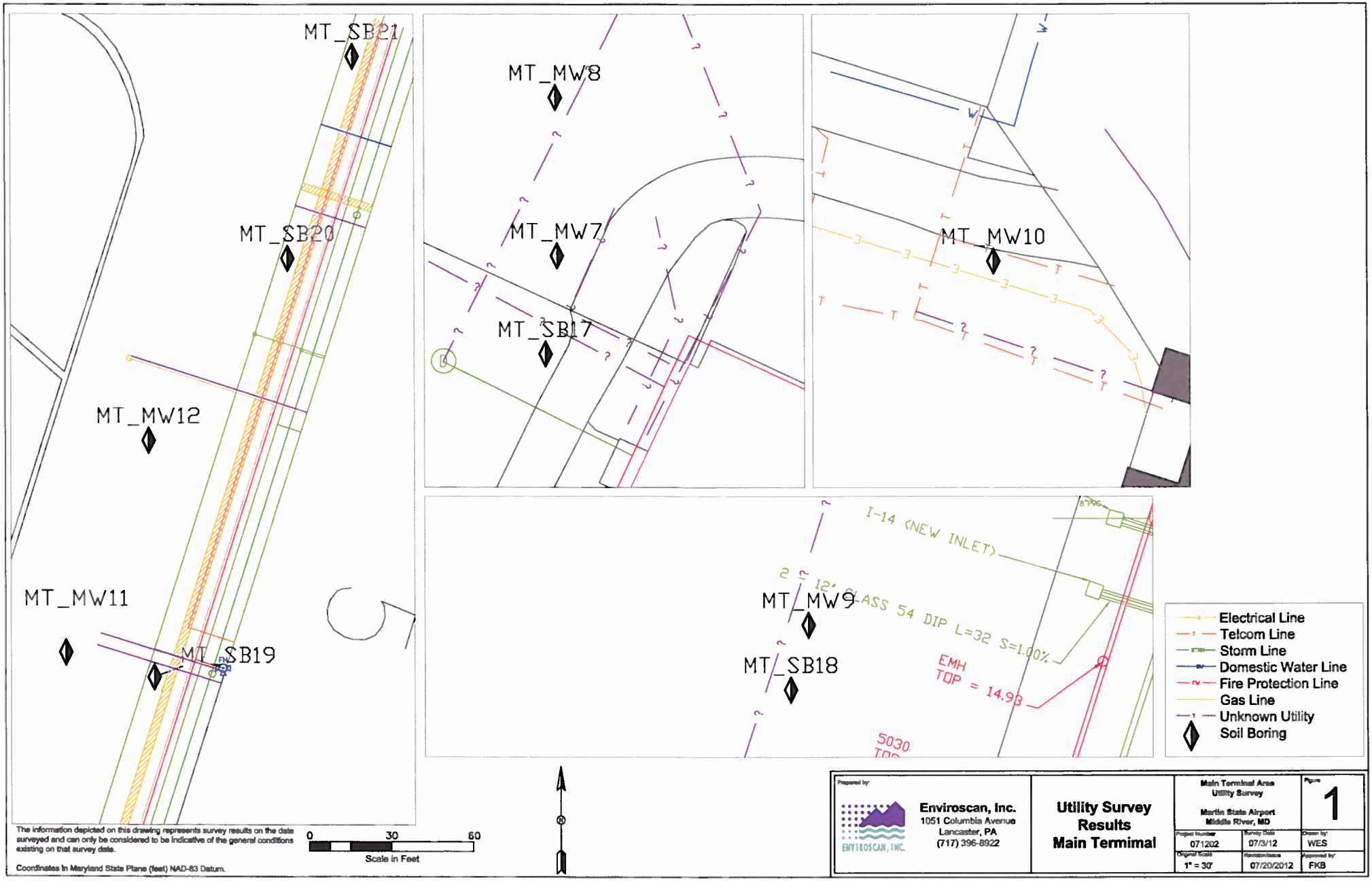
Sincerely,
**Enviroscan, Inc.**

William E. Steinhart III, M.Sc., P.G.
Principal Geophysicist

Technical Review By:
**Enviroscan, Inc.**

Felicia Kegel Bechtel, M.Sc., P.G.
President

enc.: Figure 1 Utility Survey Results Main Terminal
Table 1 – Utility Clearance Results Main Terminal Area




The information depicted on this drawing represents survey results on the date surveyed and can only be considered to be indicative of the general conditions existing on that survey date.

Coordinates in Maryland State Plane (feet) NAD-83 Datum.

0 30 60

Scale in Feet

Prepared by:

Enviroscan, Inc.
1051 Columbia Avenue
Lancaster, PA
(717) 396-8922

**Utility Survey Results Main Termimal**

Main Terminal Area Utility Survey

Martin State Airport
Middle River, MD

Figure 1

| Project Number | Survey Date | Drawn by: |
|---|---|---|
| 071202 | 07/3/12 | WES |
| Original Scale | Revision/Issue | Approved by: |
| 1" = 30' | 07/20/2012 | FKB |

# Table 1
# Utility Clearance Results
# Main Terminal Area

| Boring ID | Final Easting | Final Northing | Boring Moved due to Utility or Obstruction |
|---|---|---|---|
| MT_MW10 | 605210 | 1475841 | |
| MT_MW11 | 605506.504 | 1475717.233 | X |
| MT_MW12 | 605593 | 1475751 | |
| MT_MW7 | 606343.334 | 1475339.583 | X |
| MT_MW8 | 606408 | 1475339 | |
| MT_MW9 | 605416.347 | 1476159.227 | X |
| MT_SB17 | 606303.213 | 1475334.876 | X |
| MT_SB18 | 605390 | 1476152 | |
| MT_SB19 | 605505.357 | 1475747.991 | X |
| MT_SB20 | 605668.258 | 1475802.582 | X |
| MT_SB21 | 605749.993 | 1475831.432 | X |

MISS UTILITY

The Greater Chesapeake Damage Prevention Training Conference November 7-9 2012

HOME
SELECT YOUR STATE
SEARCH & STATUS
ITIC
FACILITY OWNERS
EXCAVATORS
TRAINING & SAFETY
HOMEOWNERS
CALL CENTER INFORMATION
CONTACT
IT'S THE LAW

Before you dig, every dig. It's the law. 1.800.257.7777

HOMEOWNERS Click Here for an Internet Locate Request!

811 Know what's below. Call before you dig.

PRINTER FRIENDLY
TELL A FRIEND

## : Search & Status

**Miss Utility Ticket No: 123[illegible]453**

VIEW STATUS HISTORY

| Company Name | District Code | Status | Date/Time |
|---|---|---|---|
| AT&T TRANSMISSION | ATM01 | Clear/No conflict | 07/18/2012 10:04:04 |
| BALT CO GOVT/S&N LOC | BCGOIT | Clear/No conflict | 07/18/2012 10:56:38 |
| BGE ELECTRIC-UTILIQUEST | BGEBA | Clear/No conflict | 07/20/2012 13:20:54 |
| BGE GAS-UTILIQUEST | BGEBAG | Clear/No conflict | 07/20/2012 13:20:54 |
| BALTIMORE CITY DPW-OCCLS | CBW04 | Marked up to privately owned utility | 07/20/2012 11:05:54 |
| COMCAST - UTILIQUEST | CTV01 | Clear/No conflict | 07/20/2012 13:20:54 |
| COMCAST- FIBER/UTILIQUEST | HTV02 | Clear/No conflict | 07/24/2012 10:10:16 |
| MD AVIATION ADMINISTRATION | MAA02 | Not complete/In progress REQUIRES PRIVATE LOCATOR | 07/19/2012 10:52:48 |
| QWEST COMMUNICATIONS | QWESTM01 | Clear/No conflict | 07/18/2012 11:10:49 |
| VERIZON - LAMBERT CABLE | VBT | Clear/No conflict | 07/20/2012 13:20:54 |

**Facility Owner-Members/Locator Contact Information**

| CODE | DEFINITION |
|---|---|
| 1 | Clear/No Conflict. ***Maryland***:Clear/No Conflict: Owner-member has reported that they have no underground facilities in the vicinity of the excavation or demolition. |
| 2 | Marked. ***Maryland***: Marked: Owner-member has reported that the excavation/demolition may proceed in a careful and prudent manner. |
| 3 | 24-hour delay - Member requested a 24-hour locate extension. |
| 4 | 48-hour delay - Member requested a 48-hour locate extension. |
| 5 | Not Complete/In Progress: Locator has spoken to excavator and they have agreed to this message. |
| 6 | Locate discrepancy. |
| 7 | Not Complete/In Progress: Dispute. |
| 8 | Utility Locator has not yet responded. |
| 9 | Marked up to privately owned utility. |
| 10/A | Incorrect address information. Please call Miss Utility to reschedule. |
| 11/B (Delaware only) | Installation, Maps or other documentation has been provided. |
| 12/C (Delaware only) | Locator could not gain access to property. |
| 13/D (Delaware only) | No Locate - Contractor work completed. |
| 14/E (Delaware only) | No Locate - Locator requests meeting with excavator. |
| 15/F (Delaware only) | No Locate - Locator requests white lining of area due to large scope of work or unclear extent of work. |

Choose your state:
List of States GO


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## Apanavage, Tony

**From:** ticketcheck@managetickets.com
**Sent:** Tuesday, July 24, 2012 10:15 AM
**To:** Apanavage, Tony
**Subject:** Ticket Check Status for MD Ticket 12369453

Ticket Number: **12369453**
Location: UNNAMED PARKING LOT MIDDLE RIVER, MD

As of **07/24/2012 10:15:00 EST**, participating facility owners have responded to Ticket Check as follows:

| District Code | Status |
|---|---|
| AT&T TRANSMISSION | Clear/No conflict |
| BALT CO GOVT/S&N LOC | Clear/No conflict |
| BGE ELECTRIC-UTILIQUEST | Clear/No conflict |
| BGE GAS-UTILIQUEST | Clear/No conflict |
| BALTIMORE CITY DPW-OCCLS | Marked up to privately owned utility |
| COMCAST - UTILIQUEST | Clear/No conflict |
| COMCAST-FIBER/UTILIQUEST | Clear/No conflict |
| MD AVIATION ADMINISTRATION | Not complete/In progress |
| QWEST COMMUNICATIONS | Clear/No conflict |
| VERIZON - LAMBERT CABLE | Clear/No conflict<br>To review this ticket in its entirety, visit Search and Status® on **www.managetickets.com**. |

Does not participate in Ticket Check: This member does not post their positive response status back to this system. It does not mean that they were not notified of the request to excavate.

Please direct all questions and concerns to your one call center.

# APPENDIX B—
# SOIL BORINGS, WELL CONSTRUCTION DIAGRAMS, AND WELL DEVELOPMENT RECORDS

Tetra Tech

# SOIL & SEDIMENT SAMPLE LOG SHEET



Project Site Name: Main Terminal
Project No.: 112IC04054 - 04

Sample ID No.: MT-SB17
Sample Location:
Sampled By: S.Cameron / W. Pryor
C.O.C. No.:

[X] Surface Soil
[X] Subsurface Soil
[ ] Sediment
[ ] Other:
[ ] QA Sample Type:

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

**GRAB SAMPLE DATA:**

| Time | Depth Interval | Color | Description (Sand, Silt, Clay, Moisture, etc.) |
|---|---|---|---|
| | | | |

**COMPOSITE SAMPLE DATA:**

| Date: | Time | Depth Interval | Color | Description (Sand, Silt, Clay, Moisture, etc.) |
|---|---|---|---|---|
| 7/10/12 | 1025 | 0-2 | brn-red/brn | Sandy SILT + CLAY w/trace organics. |
| Method: | | | | Slightly moist. |
| Grab | | | | |
| Monitor Readings | 1030 | 8-10 | light brn | Low plasticity silty CLAY w/ |
| (Range in ppm): | | | | trace fine grained sand. |
| 0.0 | | | | |
| | | | | |
| | | | | |
| | | | | |

**SAMPLE COLLECTION INFORMATION:**

| Analysis | Container Requirements | Collected | Other |
|---|---|---|---|
| VOCs | 3 - 40 mL vials / 1 - 4 oz Jar | ✓ | |
| SVOCs | 1 - 4 oz Jar | ✓ | |
| Metals | 1 - 4 oz Jar | ✓ | |
| TPH-GRO | 1 - 4 oz Jar | ✓ | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

**OBSERVATIONS / NOTES:**

**MAP:**

**Circle if Applicable:**

| MS/MSD | Duplicate ID No.: |
|---|---|
| | |

**Signature(s):**

S. Cameron

Tetra Tech, Inc.

# BORING LOG

**PROJECT NAME:** Main Terminal Phase II
**BORING No.:** MT-SB 17
**PROJECT NUMBER:** 112IC04054 - 04
**DATE:** 7/10/12
**DRILLING COMPANY:** Ground Zero
**GEOLOGIST:** S. Cameron
**DRILLING RIG:** DPT
**DRILLER:** G. Sorto

| Sample No. and Type or RQD | Depth (Ft.) or Run No. | Sample Recovery / Sample Length | Lithology change (Depth/Ft.) or Screened Interval | MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness | Color | USCS | Material Classification | Remarks | PID/FID Reading (PPM) |
|---|---|---|---|---|---|---|---|---|---|
| | 0-0.5 | | | Soft | Dark brn | | Fine grained sandy SILT w/ | Slightly moist, | 0-2' 0.0 |
| | | | | | | | trace organics (grass & roots). | (Topsoil) | 2-4' 0.0 |
| | 0.5-1 | | | loose | Gray | | Sandy GRAVEL w/ trace silt. | Slightly Moist | 4-6' 0.0 |
| | 1-2.5 | | | Soft | red/brn | | Low plasticity silty CLAY w/ | moist | 6-8' 0.0 |
| | | | | | | | trace organics to 1.5'. | | 8-10' 0.0 |
| | 2.5-5 | | | | | | No Recovery | | 10-12' 0.0 |
| | 5-8 | | | Soft | red/brn | | Low plasticity silty CLAY | moist | 12-14' 0.0 |
| | 8-10 | | | Soft | light brn | | Low plasticity silty CLAY | moist | 14-16' 0.0 |
| | | | | | | | w/ trace fine grained sand. | | 16-18' 0.0 |
| | 10-15 | | | Hard | red/brn | | Medium plasticity CLAY w/ | Slightly moist | 18-20' 0.0 |
| | | | | | mottled cream | | some silt. | | 20-22' 0.0 |
| | 15-17 | | | Soft | red/brn | | Medium plasticity CLAY w/ | Slightly moist | 22-24' 0.0 |
| | | | | | | | some silt & trace gravel | | 24-25' 0.0 |
| | 17-22 | | | Soft | light brn | | Low plasticity silty CLAY. | Slightly moist | |
| | | | | | mottled red/brn | | | (wet in 20-25 sleeve) | |
| | 22-25 | | | Hard | red/brn | | Medium plasticity CLAY w/ | Slightly Moist. | |
| | | | | | mottled cream | | some silt. | | |

**Remarks:** Sample intervals of 0-2 & 8-10.

**Drilling Area Background (PPM):** 0.0

**Convert to Well:** Yes: No: x

**Well I.D. #:**

Tetra Tech

# SOIL & SEDIMENT SAMPLE LOG SHEET



Project Site Name: Main Terminal
Project No.: 112IC04054 - 04

Sample ID No.: MT-SB18
Sample Location: SB18
Sampled By: S.Cameron / W. Pryor
C.O.C. No.:

[X] Surface Soil
[X] Subsurface Soil
[ ] Sediment
[ ] Other:
[ ] QA Sample Type:

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

**GRAB SAMPLE DATA:**

| Date: | Depth Interval | Color | Description (Sand, Silt, Clay, Moisture, etc.) |
|---|---|---|---|
| Time: | | | |
| Method: | | | |
| Grab | | | |

**COMPOSITE SAMPLE DATA:**

| Date: | Time | Depth Interval | Color | Description (Sand, Silt, Clay, Moisture, etc.) |
|---|---|---|---|---|
| 7/10/12 | 0915 | 0-2 | brn/red mottled | Medium plasticity CLAY W/ trace |
| Method: | | | Cream | Silt, hard, slightly moist. |
| Grab | | | | |
| Monitor Readings | 0920 | 8-10 | Same as above | Same as above |
| (Range in ppm): | | | | |
| 1.2-53.8 | 0925 | 8-10 | | Collected for TCLP analysis |
| | | | | |
| | | | | |

**SAMPLE COLLECTION INFORMATION:**

| Analysis | Container Requirements | Collected | Other |
|---|---|---|---|
| VOCs | 3 - 40 mL vials / 1 - 4 oz Jar | ✓ | |
| SVOCs | 1 - 4 oz Jar | ✓ | |
| Metals | 1 - 4 oz Jar | ✓ | |
| TPH-GRO | 1 - 4 oz Jar | ✓ | |
| TCLP | 1-4oz Jar / 1-32oz Jar | ✓ | |
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**OBSERVATIONS / NOTES:**

**MAP:**

**Circle if Applicable:**

| MS/MSD | Duplicate ID No.: |
|---|---|
| | |

**Signature(s):**

S. Cameron

Tetra Tech, Inc.

# BORING LOG

**PROJECT NAME:** Main Terminal Phase II
**BORING No.:** MT-SB18
**PROJECT NUMBER:** 112IC04054 - 04
**DATE:** 7-10-12
**DRILLING COMPANY:** Ground Zero
**GEOLOGIST:** S. Cameron
**DRILLING RIG:** DPT
**DRILLER:** G. Sorto

| Sample No. and Type or RQD | Depth (Ft.) or Run No. | Sample Recovery / Sample Length | Lithology change (Depth/Ft.) or Screened Interval | MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness | Color | USCS | Material Classification | Remarks | PID/FID Reading (PPM) |
|---|---|---|---|---|---|---|---|---|---|
| | 0-1.5 | | | Dense | Gray | | Gravelly SILT w/ some | Slightly moist | 0-2' 53.8 |
| | | | | | | | sand & clay. | (Asphalt) | 2-4' 38.5 |
| | 1.5-2.5 | | | Compact | Gray/brn | | Gravelly, Silty SAND | Slightly moist | 4-6' 22.5 |
| | 2.5-22 | | | Hard | brn mottled | | Medium plasticity CLAY w/ | Slightly moist | 6-8' 17.8 |
| | | | | | red/brn & cream | | trace Silt. | | 8-10' 29.5 |
| | 22-25 | | | moderately Hard | red/brn | | Low plasticity silty CLAY | Slightly moist | 10-12' 19.8 |
| | | | | | | | | | 12-14' 13.3 |
| | | | | | | | | | 14-16' 1.2 |
| | | | | | | | | | 16-18' 6.1 |
| | | | | | | | | | 18-20' 10.4 |
| | | | | | | | | | 20-22' 12.1 |
| | | | | | | | | | 22-24' 11.4 |
| | | | | | | | | | 24-25' 15.9 |
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**Remarks:** Sample intervals of 0-2 & 8-10

**Drilling Area Background (PPM):** 0.0

**Convert to Well:** Yes: No: x

**Well I.D. #:**

Tetra Tech

# SOIL & SEDIMENT SAMPLE LOG SHEET



Project Site Name: Main Terminal
Project No.: 112IC04054 - 04

Sample ID No.: MT-SB19
Sample Location: SB19
Sampled By: S.Cameron / W. Pryor
C.O.C. No.:

[X] Surface Soil
[X] Subsurface Soil
[ ] Sediment
[ ] Other:
[ ] QA Sample Type:

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

**GRAB SAMPLE DATA:**

| Date | Depth Interval | Color | Description (Sand, Silt, Clay, Moisture, etc.) |
|---|---|---|---|
| Time | | | |
| Method: | | | |
| Monitor Readings (Range in ppm): | | | |

**COMPOSITE SAMPLE DATA:**

| Date: | Time | Depth Interval | Color | Description (Sand, Silt, Clay, Moisture, etc.) |
|---|---|---|---|---|
| 7/9/12 | 1140 | 0-2 | light brn / red brn | Low plasticity silty CLAY w/ some sand & gravel, slightly moist, hard. |
| Method: | | | | |
| Grab | | | | |
| Monitor Readings | 1145 | 8-10 | red/brn mottled | Low plasticity silty CLAY w/ trace |
| (Range in ppm): | | | cream | sand. Slightly moist, hard. |
| 0.0 | | | | |
| | | | | |
| | | | | |

**SAMPLE COLLECTION INFORMATION:**

| Analysis | Container Requirements | Collected | Other |
|---|---|---|---|
| VOCs | 3 - 40 mL vials / 1 - 4 oz Jar | ✓ | |
| SVOCs | 1 - 4 oz Jar | ✓ | |
| Metals | 1 - 4 oz Jar | ✓ | |
| TPH-GRO | 1 - 4 oz Jar | ✓ | |
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**OBSERVATIONS / NOTES:**

**MAP:**

**Circle if Applicable:**

MS/MSD

Duplicate ID No.:

**Signature(s):**

S. Cameron

Tetra Tech, Inc.

# BORING LOG

**PROJECT NAME:** Main Terminal Phase II
**BORING No.:** MT-SB19
**PROJECT NUMBER:** 112IC04054 - 04
**DATE:** 7-9-12
**DRILLING COMPANY:** Ground Zero
**GEOLOGIST:** S. Cameron
**DRILLING RIG:** DPT
**DRILLER:** G. Sorto

| Sample No. and Type or RQD | Depth (Ft.) or Run No. | Sample Recovery / Sample Length | Lithology change (Depth/Ft.) or Screened Interval | MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness | Color | USCS | Material Classification | Remarks | PID/FID Reading (PPM) |
|---|---|---|---|---|---|---|---|---|---|
| | 0-0.5 | | | Loose | Gray | | Coarse, Angular GRAVEL | DRY (Asphalt) | 0-2' 0.0 |
| | 0.5-1.5 | | | Loose | Blk/light brn | | Silty, gravelly, coarse grained | Slightly Moist | 2-4' 0.0 |
| | | | | | | | SAND. | | 4-6' 0.0 |
| | 1.5-17.5 | | | Hard | red/brn | | Low plasticity silty CLAY | Slightly Moist | 6-8' 0.0 |
| | | | | | Mottled Cream | | w/ trace sand. | | 8-10' 0.0 |
| | 17.5-19 | | | Soft | cream/brn | | Fine grained sandy, clayey | Slightly Moist | 10-12' 0.0 |
| | | | | | mottled red/brn | | SILT. | | 12-14' 0.0 |
| | 19-21.5 | | | Dense/Hard | red/brn | | Fine grained sandy, clayey SILT. | Slightly Moist (moist @ 21') | 14-16' 0.0 |
| | | | | | | | | | 16-18' 0.0 |
| | 21.5-25 | | | Hard/dense | red/brn | | Low plasticity silty CLAY. | Slightly Moist | 18-20' 0.0 |
| | | | | | Mottled Cream/ brn | | | | 20-22' 0.0 |
| | | | | | | | | | 22-24' 0.0 |
| | | | | | | | | | 24-25' 0.0 |

**Remarks:** Sample intervals 0-2 & 8-10

**Drilling Area Background (PPM):** 0.0

**Convert to Well:** Yes: No: x

**Well I.D. #:**

Tetra Tech

# SOIL & SEDIMENT SAMPLE LOG SHEET



Project Site Name: Main Terminal
Project No.: 112IC04054 - 04

Sample ID No.: MT-SB20
Sample Location: SB20
Sampled By: S.Cameron / W. Pryor
C.O.C. No.:

[X] Surface Soil
[X] Subsurface Soil
[ ] Sediment
[ ] Other:
[ ] QA Sample Type:

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

**GRAB SAMPLE DATA:**

| Date | Depth Interval | Color | Description (Sand, Silt, Clay, Moisture, etc.) |
|---|---|---|---|
| Time | | | |
| Method | | | |
| Monitor Reading (ppm) | | | |

**COMPOSITE SAMPLE DATA:**

| Date: 7/9/12 | Time | Depth Interval | Color | Description (Sand, Silt, Clay, Moisture, etc.) |
|---|---|---|---|---|
| | 1340 | 0-2 | red/brn | Low plasticity silty CLAY w/ some |
| Method: | | | mottled cream | sand & gravel, slightly moist & hard. |
| Grab | | | | |
| Monitor Readings | 1345 | 8-10 | Same as above | Same as above |
| (Range in ppm): | | | | |
| 0.0 | | | | |
| | | | | |
| | | | | |
| | | | | |

**SAMPLE COLLECTION INFORMATION:**

| Analysis | Container Requirements | Collected | Other |
|---|---|---|---|
| VOCs | 3 - 40 mL vials / 1 - 4 oz Jar | ✓ | |
| SVOCs | 1 - 4 oz Jar | ✓ | |
| Metals | 1 - 4 oz Jar | ✓ | |
| TPH-GRO | 1 - 4 oz Jar | ✓ | |
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**OBSERVATIONS / NOTES:**

**MAP:**

**Circle if Applicable:**

MS/MSD

Duplicate ID No.:

**Signature(s):**

S. Cameron

Tetra Tech, Inc.

# BORING LOG

**PROJECT NAME:** Main Terminal Phase II
**BORING No.:** MT-SB 20
**PROJECT NUMBER:** 112IC04054 - 04
**DATE:** 7/9/12
**DRILLING COMPANY:** Ground Zero
**GEOLOGIST:** S. Cameron
**DRILLING RIG:** DPT
**DRILLER:** G. Sorto

| Sample No. and Type or RQD | Depth (Ft.) or Run No. | Sample Recovery / Sample Length | Lithology change (Depth/Ft.) or Screened Interval | MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness | Color | USCS | Material Classification | Remarks | PID/FID Reading (PPM) |
|---|---|---|---|---|---|---|---|---|---|
| | 0-0.25 | | | | Gray | | Coarse, Angular GRAVEL | Dry (Asphalt) | 0-2': 0.0 |
| | 0.25-0.5 | | | loose | dark brn | | Silty, gravelly, coarse grained | Slightly moist | 2-4': 0.0 |
| | | | | | | | poorly sorted SAND. | | 4-6': 0.0 |
| | 0.5-14 | | | Hard | red/brn | | Low plasticity silty CLAY w/ | Slightly Moist | 6-8': 0.0 |
| | | | | | Mottled Cream | | trace sand. (No Recovery 2.5-5') | | 8-10': 0.0 |
| | 14-17 | | | medium hard | cream becoming | | Clayey SILT w/ trace | Slightly moist | 10-12': 0.0 |
| | | | | | red/brn @14.5 | | fine grained sand. | | 12-14': 0.0 |
| | 17-22 | | | Hard | red/brn | | Medium plasticity CLAY w/ | Slightly moist | 14-16': 0.0 |
| | | | | | | | trace silt. | | 16-18': 0.0 |
| | 22-25 | | | Hard | red/brn | | Clayey SILT w/ trace fine | Slightly Moist | 18-20': 0.0 |
| | | | | | mottled cream | | grained sand | | 20-22': 0.0 |
| | | | | | | | | | 22-24': 0.0 |
| | | | | | | | | | 24-25': 0.0 |

**Remarks:** Sample interval 0-2 & 8-10

**Drilling Area Background (PPM):** 0.0

**Convert to Well:** Yes: No: x

**Well I.D. #:**

Tetra Tech

# SOIL & SEDIMENT SAMPLE LOG SHEET



Project Site Name: Main Terminal
Project No.: 112IC04054 - 04

Sample ID No.: MT-SB21
Sample Location: SB21
Sampled By: S.Cameron / W. Pryor
C.O.C. No.:

[X] Surface Soil
[X] Subsurface Soil
[ ] Sediment
[ ] Other:
[ ] QA Sample Type:

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

**GRAB SAMPLE DATA:**

| Date | Depth Interval | Color | Description (Sand, Silt, Clay, Moisture, etc.) |
|---|---|---|---|
| Time | | | |
| Method | | | |
| Monitor Readings (Range in ppm) | | | |

**COMPOSITE SAMPLE DATA:**

| Date: 7/9/12 | Time | Depth Interval | Color | Description (Sand, Silt, Clay, Moisture, etc.) |
|---|---|---|---|---|
| | 1430 | 0-2 | red/brn & cream | Silty CLAY w/ trace sand, Slightly moist. |
| Method: Grab | 1435 | 8-10 | red/brn mottled cream | Low plasticity silty CLAY w/ trace sand, Slightly moist, hard. |
| Monitor Readings (Range in ppm): 0.0 | | | | |

**SAMPLE COLLECTION INFORMATION:**

| Analysis | Container Requirements | Collected | Other |
|---|---|---|---|
| VOCs | 3 - 40 mL vials / 1 - 4 oz Jar | ✓ | |
| SVOCs | 1 - 4 oz Jar | ✓ | |
| Metals | 1 - 4 oz Jar | ✓ | |
| TPH-GRO | 1 - 4 oz Jar | ✓ | |

**OBSERVATIONS / NOTES:**

**MAP:**

**Circle if Applicable:**

MS/MSD | Duplicate ID No.:

**Signature(s):**

Tetra Tech, Inc.

# BORING LOG

**PROJECT NAME:** Main Terminal Phase II
**BORING No.:** MT-SB 21
**PROJECT NUMBER:** 112IC04054 - 04
**DATE:** 7-9-12
**DRILLING COMPANY:** Ground Zero
**GEOLOGIST:** S. Cameron
**DRILLING RIG:** DPT
**DRILLER:** G. Sorto

| Sample No. and Type or RQD | Depth (Ft.) or Run No. | Sample Recovery / Sample Length | Lithology change (Depth/Ft.) or Screened Interval | MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness | Color | USCS | Material Classification | Remarks | PID/FID Reading (PPM) |
|---|---|---|---|---|---|---|---|---|---|
| | 0-0.5 | | | | Gray | | Coarse Angular GRAVEL | Dry (Asphalt) | 0-2' 0.0 |
| | 0.5-1.5 | | | Loose | blk/light brn | | Silty, gravelly, coarse SAND | Slightly moist | 2-4' 0.0 |
| | 1.5-11 | | | Hard | red/brn | | Low plasticity silty CLAY w/ | Slightly moist | 4-6' 0.0 |
| | | | | | mottled cream | | trace sand. | | 6-8' 0.0 |
| | 11-19 | | | Hard | Red/brn | | Medium plasticity CLAY w/ | slightly moist | 8-10' 0.0 |
| | | | | | | | trace silt. | | 10-12' 0.0 |
| | 19-22 | | | medium Hard | Red/brn | | Clayey SILT w/trace sand. | Slightly Moist | 12-14' 0.0 |
| | 22-25 | | | | Red/brn | | Low plasticity silty CLAY w/ | Slightly moist | 14-16' 0.0 |
| | | | | | Mottled Cream | | trace fine grained sand. | | 16-18' 0.0 |
| | | | | | | | | | 18-20' 0.0 |
| | | | | | | | | | 20-22' 0.0 |
| | | | | | | | | | 22-24' 0.0 |
| | | | | | | | | | 24-25' 0.0 |

**Remarks:** Sample Intervals 0-2 & 8-10

**Drilling Area Background (PPM):** 0.0

**Convert to Well:** Yes: No: x

**Well I.D. #:**

Tetra Tech NUS, Inc.

# BORING LOG



PROJECT NAME: SUPPLEMENTAL PHASE II INVEST. MSA
PROJECT NUMBER:
DRILLING COMPANY: BOART LONGYEAR
DRILLING RIG: SPIDER SONIC ROTOSONIC

BORING No.: MA-MW-7S
DATE: 7/27/2012
GEOLOGIST: W. ONEIL
DRILLER: LARRY HUNSBERGER

| Sample No. and Type or RQD | Depth (Ft.) or Run No. | Blows / 6" or RQD (%) | Sample Recovery / Sample Length | Lithology Change (Depth/Ft.) or Screened Interval | MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness | Color | Material Classification | USCS * | Remarks | PID/FID Reading (ppm): Sample | Sampler BZ | Borehole** | Driller BZ** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | | | | | | ASPHALT | | off scale | | | | |
| | | | | | | | GRAY BROWN GRAVEL TO SILT FILL DRY AT TOP | | off scale | | | | |
| | 5 | | | | | | WET A 4'-5' (perched water) | | 700 | | | | |
| | | | | | | | RED BROWN CLAY SLIGHTLY PLIABLE V. SLIGHTLY MOIST | | 672 | | | | |
| | 10 | | | | | | RED TO BROWN ORGANIC-RICH CLAY TO SILTY CLAY, PLIABLE TO SOFT VI SLIGHTLY MOIST (RED) TO SLIGHTLY MOIST (BROWN) LIKELY FILL MATERIAL | | 55.1 | | | | |
| | | | | | | | | | 0.0 | | | | |
| | | | | | | | BROWN ORANGE GRAY CLAY W/ GRAVEL AND DEBRIS, PLIABLE VI SLIGHTLY MOIST LIKELY FILL MATERIAL | | 1.5 | | | | |
| | 15 | | | | | | | | 0.0 | | | | |
| | | | | | | | RED, ORANGE, GRAY CLAY, DENSE, STIFF DRY | | 0.0 | | | | |
| | 20 | | | | | | | | 0.0 | | | | |
| | | | | | | | | | 0.0 | | | | |
| | | | | | | | ORANGE & RED GRAY CLAY DENSE, STIFF, DRY | | 0.0 | | | | |
| | 25 | | | | | | | | | | | | |

* When rock coring, enter rock brokeness

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm): 0.0

Converted to Well: Yes X No ____ Well I.D. #: MA-MW-7S

Tetra Tech NUS, Inc.

# BORING LOG



PROJECT NAME: SUPPLEMENTAL PHASE II INVEST. MSA
PROJECT NUMBER:
DRILLING COMPANY: BOART LONGYEAR
DRILLING RIG: SPIDER SONIC ROTOSONIC

BORING No.: MT-MW-75
DATE: 7/27/2012
GEOLOGIST: W. ONEIL
DRILLER: Larry Hunsberger

| Sample No. and Type or RQD | Depth (Ft.) or Run No. | Blows / 6" or RQD (%) | Sample Recovery / Sample Length | Lithology Change (Depth/Ft.) or Screened Interval | MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness | Color | Material Classification | USCS * | Remarks | PID/FID Reading (ppm): Sample | Sampler BZ | Borehole** | Driller BZ** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 25 | | | | | | RED ORANGE GRAY SANDY SILT, SOFT, MOIST | | 0.0 | | | | |
| | | | | | | | | | 0.0 | | | | |
| | | | | | | | RED, ORANGE, GRAY CLAY STIFF, DRY | | | | | | |
| | | | | | | | | | 0.0 | | | | |
| | 30 | | | | | | | | | | | | |
| | | | | | | | RED ORANGE GRAY | | 0.0 | | | | |
| | | | | | | | SANDY SILT, med. soft MOIST | | | | | | |
| | | | | | | | | | 0.0 | | | | |
| | | | | | | | GRAY TO RED CLAY DENSE, STIFF, DRY | | | | | | |
| | 35 | | | | | | ORANGE RED SILTY SAND / RED ORANGE GRAY CLAY | SOFT, MOIST | 0.0 | | | | |
| | | | | | | | STIFF, DENSE, DRY | | | | | | |

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm):

Remarks:

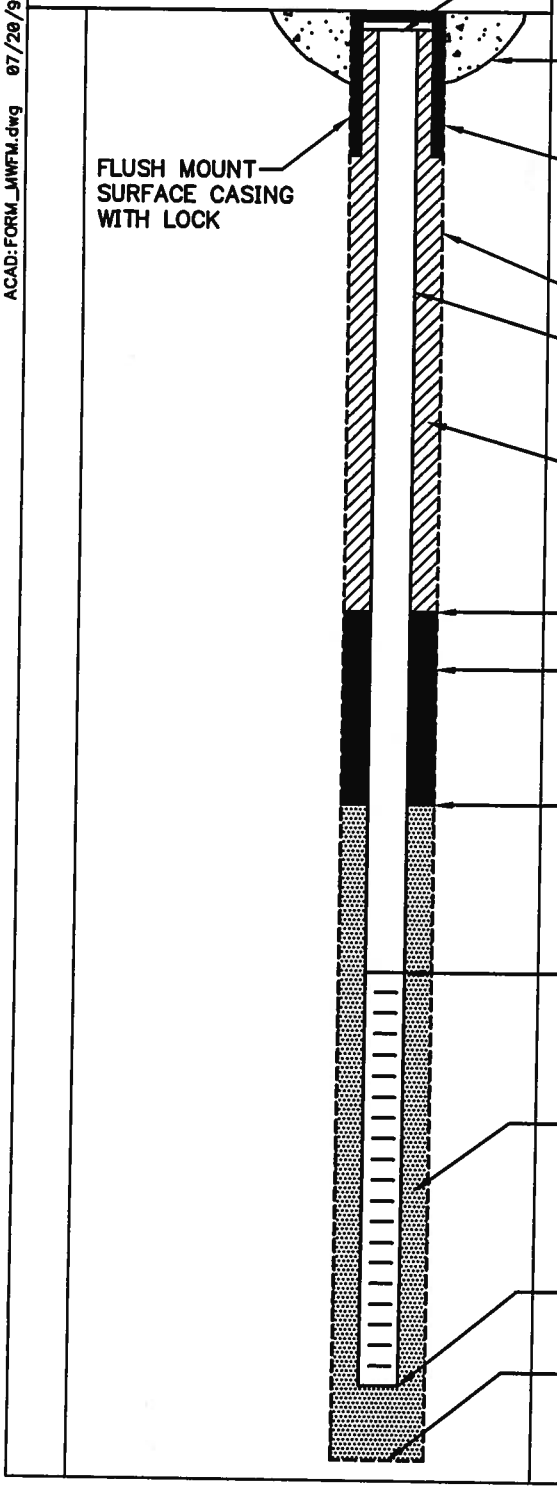
Converted to Well: Yes _____ No _____ Well I.D. #: _____

WELL NO.: MA-MW-75

Tetra Tech NUS, Inc.

# OVERBURDEN
# MONITORING WELL SHEET
# FLUSH - MOUNT

| | | |
|---|---|---|
| PROJECT SUPPLEMENTAL PHASE II INVEST. MSA | LOCATION MSA - Middle River, MD | DRILLER Larry Hunsberger |
| PROJECT NO. | BORING MA-MW-75' | DRILLING METHOD Roto Sonic |
| DATE BEGUN 7/27/2012 | DATE COMPLETED 7/28/12 | DEVELOPMENT METHOD |
| FIELD GEOLOGIST W. ONeil | | |
| GROUND ELEVATION | DATUM | |




ELEVATION TOP OF RISER: _____

TYPE OF SURFACE SEAL: High Strength Concrete

TYPE OF PROTECTIVE CASING: steel w/plastic

I.D. OF PROTECTIVE CASING: 8"

DIAMETER OF HOLE: 6"

TYPE OF RISER PIPE: PVC

RISER PIPE I.D.: 2"

TYPE OF BACKFILL/SEAL: Portland Cement w/ Bentonite Grout

ELEVATION/DEPTH TOP OF SEAL: 121'

TYPE OF SEAL: Bentonite Chips

ELEVATION/DEPTH TOP OF SAND: 123'

ELEVATION/DEPTH TOP OF SCREEN: 125'

TYPE OF SCREEN: PVC

SLOT SIZE x LENGTH: 0.01" X 10'

TYPE OF SAND PACK: #1 Silica

DIAMETER OF HOLE IN BEDROCK: N/A

ELEVATION / DEPTH BOTTOM OF SCREEN: 135'

ELEVATION / DEPTH BOTTOM OF SAND: 135'

ELEVATION/DEPTH BOTTOM OF HOLE: 135'

BACKFILL MATERIAL BELOW SAND: N/A

ACAD:FORM_MWFM.dwg 07/20/99 INL

Tetra Tech NUS, Inc.

# BORING LOG



PROJECT NAME: SUPPLEMENTAL PHASE II INVEST. MSA
PROJECT NUMBER:
DRILLING COMPANY: BOART LONGYEAR
DRILLING RIG: SPIDER SONIC ROTOSONIC

BORING No.: MA-MW-085
DATE: 7/28/2012
GEOLOGIST: W. ONEY
DRILLER: Larry Hunsberger

| Sample No. and Type or RQD | Depth (Ft.) or Run No. | Blows / 6" or RQD (%) | Sample Recovery / Sample Length | Lithology Change (Depth/Ft.) or Screened Interval | MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness | Color | Material Classification | USCS * | Remarks | PID/FID Reading (ppm): Sample | Sampler BZ | Borehole** | Driller BZ** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | | | | | | ASPHALT CONCRETE | | | | | | |
| | | | | | | | GRAVEL FILL, DRY | | | | | | |
| | | | | | | | RED BROWN CLAY | | | | | | |
| | | | | | | | DENSE, STIFF, DRY | | | | | | |
| | 5 | | | | | | RED BROWN CLAY, PLIABLE V. SLIGHTLY MOIST TO DRY | | | | | | |
| | | | | | | | POORLY SORTED, SILT, SAND CLAY GRAVEL FILL | | | | | | |
| | | | | | | | WET (PERCHED WATER) | | | | | | |
| | | | | | | | RED BROWN CLAY | | | | | | |
| | | | | | | | PLIABLE, V. SLIGHTLY MOIST | | | | | | |
| | 10 | | | | | | | | | | | | |
| | | | | | | | GRAY BROWN ORGANIC RICH SILT to CLAY SOFT MOIST | | | | | | |
| | | | | | | | GRAY SILTY CLAY W/ ORANGE STREAKS | | | | | | |
| | 15 | | | | | | STIFF DRY | | | | | | |
| | | | | | | | RED BROWN CLAY | | | | | | |
| | | | | | | | DENSE, STIFF, DRY | | | | | | |
| | 20 | | | | | | RED BROWN CLAY | | | | | | |
| | | | | | | | W WHITE & ORANGE MOTTLING | | | | | | |
| | | | | | | | DENSE STIFF DRY | | | | | | |
| | 25 | | | | | | | | | | | | |

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0.0

Remarks:

Converted to Well: Yes X No ____ Well I.D. #: MA-MW-085

Tetra Tech NUS, Inc.

# BORING LOG



PROJECT NAME: SUPPLEMENTAL PHASE II INVEST. MSA
PROJECT NUMBER:
DRILLING COMPANY: BART LONGYEAR
DRILLING RIG: SPIDER SONIC ROTOSONIC

BORING No.: MA-MW-085
DATE: ~~7/28~~ 7/28/12
GEOLOGIST: C. ONEY
DRILLER: LARRY HUNSBERGER

| Sample No. and Type or RQD | Depth (Ft.) or Run No. | Blows / 6" or RQD (%) | Sample Recovery / Sample Length | Lithology Change (Depth/Ft.) or Screened Interval | MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness | MATERIAL DESCRIPTION: Color | MATERIAL DESCRIPTION: Material Classification | USCS * | Remarks | PID/FID Reading (ppm): Sample | PID/FID Reading (ppm): Sampler BZ | PID/FID Reading (ppm): Borehole** | PID/FID Reading (ppm): Driller BZ** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 25 | | | | | | RED BROWN CLAY W WHITE & ORANGE MOTTLING | | | | | | |
| | | | | | | | DENSE, STIFF, DRY | | | | | | |
| | | | | | | | ORANGE/RED CLAY DENSE STIFF, DRY | | | | | | |
| | | | | | | | GRAY CLAY W ORANGE streaks, slightly pliable very slightly moist | | | | | | |
| | 30 | | | | | | ORANGE, RED, GRAY SILTY CLAY, PLIABLE, SLIGHTLY MOIST | | | | | | |
| | | | | | | | YL. BROWN SILTY SAND SOFT MOIST | | | | | | |
| | | | | | | | PLIABLE, ORANGE CLAY | | | | | | |
| | | | | | | | STIFF TO PLIABLE, DARK YELLOW/RED SILTY CLAY PLIABLE SLIGHTLY MOIST | | | | | | |
| | | | | | | | RED BROWN GRAY CLAY, SLIGHTLY PLIABLE | | | | | | |
| | 35 | | | | | | very slightly moist | | | | | | |

* When rock coring, enter rock brokeness

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0-0

Remarks:

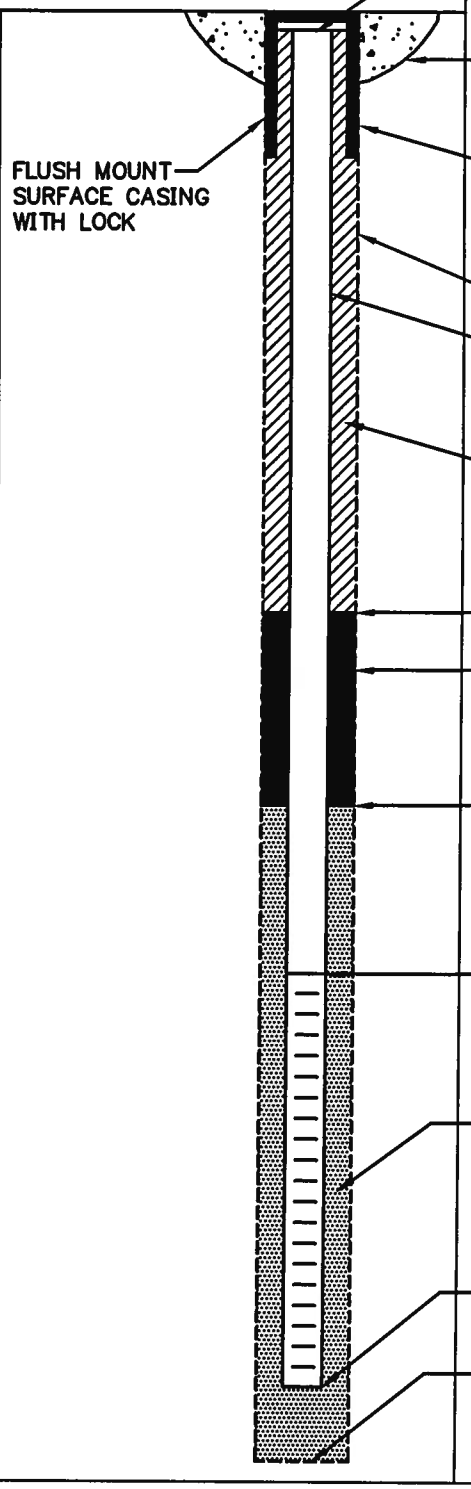
Converted to Well: Yes X No ____ Well I.D. #: MA-MW-085

WELL NO.: MT-MW-08S

Tetra Tech NUS, Inc.

# OVERBURDEN
# MONITORING WELL SHEET
# FLUSH - MOUNT

| | | |
|---|---|---|
| PROJECT SUPPLEMENTAL PHASE II INVEST. MSA | LOCATION MSA - Middle River MD | DRILLER Larry Hunsberger |
| PROJECT NO. | BORING MT-MW-08S | DRILLING METHOD ROTO SONIC |
| DATE BEGUN 7/28/2012 | DATE COMPLETED | |
| FIELD GEOLOGIST W. ONeil | | DEVELOPMENT METHOD |
| GROUND ELEVATION | DATUM | |




ELEVATION TOP OF RISER: _____

TYPE OF SURFACE SEAL: High Strength Concrete

TYPE OF PROTECTIVE CASING: steel/plastic

I.D. OF PROTECTIVE CASING: 8"

DIAMETER OF HOLE: 6"

TYPE OF RISER PIPE: PVC

RISER PIPE I.D.: 2"

TYPE OF BACKFILL/SEAL: Portland cement/ bentonite grout

ELEVATION/DEPTH TOP OF SEAL: 21'

TYPE OF SEAL: Bentonite chips

ELEVATION/DEPTH TOP OF SAND: 23'

ELEVATION/DEPTH TOP OF SCREEN: 25'

TYPE OF SCREEN: PVC

SLOT SIZE x LENGTH: 0.01" X 10'

TYPE OF SAND PACK: #1 silica

DIAMETER OF HOLE IN BEDROCK: N/A

ELEVATION / DEPTH BOTTOM OF SCREEN: 35'

ELEVATION / DEPTH BOTTOM OF SAND: 35'

ELEVATION/DEPTH BOTTOM OF HOLE: 35'

BACKFILL MATERIAL BELOW SAND: N/A

ACAD:FORM_MWFM.dwg 07/20/99 INL

Tetra Tech NUS, Inc.

# BORING LOG



PROJECT NAME: SUPPLEMENTAL PHASE II INVEST. MSA
PROJECT NUMBER:
DRILLING COMPANY: BOART LONGYEAR
DRILLING RIG: SPIDER SONIC ROTOSONIC

BORING No.: MA-MW-9S
DATE: 7/27/2012
GEOLOGIST: W. O'Neil
DRILLER: Larry Hunsberger

| Sample No. and Type or RQD | Depth (Ft.) or Run No. | Blows / 6" or RQD (%) | Sample Recovery / Sample Length | Lithology Change (Depth/Ft.) or Screened Interval | MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness | MATERIAL DESCRIPTION: Color | MATERIAL DESCRIPTION: Material Classification | USCS * | Remarks | PID/FID Reading (ppm): Sample | Sampler BZ | Borehole** | Driller BZ** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | | | | | | ASPHALT | | 0.3 | | | | |
| | | | | | | | GRAY, GRAVEL FILL, DRY | | 44 | | | | |
| | | | | | | | RED, WHITE, PURPLE CLAY, STIFF, DRY | | 33 | | | | |
| | 5 | | | | | | RED BROWN CLAY STIFF DRY | | 1.0 | | | | |
| | | | | | | | ORANGE, PURPLE CLAY, stiff, DRY | | 1.8 | | | | |
| | 10 | | | | | | | | 4.7 | | | | |
| | | | | | | | BROWN SILTY CLAY PLIABLE V. SLIGHTLY MOIST | | 390 | | | | |
| | 15 | | | | | | RED BROWN WHITE CLAY, STIFF, DRY | | 42 | | | | |
| | | | | | | | | | 12 | | | | |
| | | | | | | | RED, WHITE, BROWN CLAY, SLIGHTLY PLIABLE, V. SLIGHTLY MOIST | | 12.6 | | | | |
| | 20 | | | | | | RED BROWN CLAY STIFF DRY | | | | | | |
| | | | | | | | GRAY/RED BROWN CLAY SLIGHTLY PLIABLE, DRY | | 0.0 | | | | |
| | | | | | | | Red BROWN CLAY SLIGHTLY PLIABLE | | 0.0 | | | | |
| | 25 | | | | | | V. slightly moist | | 29.3 | | | | |

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0.0

Remarks: No significant water bearing zones were observed

Converted to Well: Yes X No _____ Well I.D. #: MA-MW-9S

Tetra Tech NUS, Inc.

# BORING LOG

SUPPLEMENTAL PHASE II



PROJECT NAME: INVEST. MSA
PROJECT NUMBER:
DRILLING COMPANY: BOART LONGYEAR
DRILLING RIG: SPIDER SONIC ROTOSONIC

BORING No.: MA-MW-95
DATE: 7/27/2012
GEOLOGIST: W. ONEIL
DRILLER: Larry Hunsberger

| Sample No. and Type or RQD | Depth (Ft.) or Run No. | Blows / 6" or RQD (%) | Sample Recovery / Sample Length | Lithology Change (Depth/Ft.) or Screened Interval | MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness | Color | Material Classification | USCS * | Remarks | PID/FID Reading (ppm): Sample | Sampler BZ | Borehole** | Driller BZ** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 25 | | | | | | RED BROWN CLAY SLIGHTLY PLIABLE V. SLIGHTLY MOIST | | 29.3 | | | | |
| | | | | | | | RED BROWN GRAY CLAY PLIABLE, V. Slightly MOIST | | 73 | | | | |
| | 30 | | | | | | RED BROWN CLAY DENSE STIFF DRY | | 19 | | | | |
| | | | | | | | RED BROWN CLAY W/ WHITE MOTTLING, SLIGHTLY PLIABLE | | 0.0 DRY | | | | |
| | | | | | | | RED BROWN CLAY PLIABLE V. SLIGHTLY MOIST | | 0.0 | | | | |
| | 35 | | | | | | | | 3.0 | | | | |
| | | | | | | | RED GRAY CLAY PLIABLE V. Slightly Moist | | 2.8 | | | | |
| | 40 | | | | | | | | 45 | | | | |
| | | | | | | | BROWN SILTY CLAY TO CLAYEY SILT FRIABLE, V. SLIGHTLY MOIST | | 70.1 | | | | |
| | | | | | | | GRAY CLAY PLIABLE, DRY | | | | | | |
| | | | | | | | RED BROWN SILTY CLAY TO CLAYEY SILT, FRIABLE V. Slightly MOIST | | 2.1 | | | | |
| | 45 | | | | | | BROWN CLAYEY SILT pliable SLIGHTLY MOIST | | 0.0 | | | | |
| | | | | | | | RED BROWN SILTY CLAY PLIABLE, V. Slightly MOIST | | 0.0 | | | | |
| | | | | | | | RED BROWN CLAY | | | | | | |
| | 50 | | | | | | DENSE, SLIGHTLY PLIABLE, DRY | | 0.0 | | | | |

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm): 0.0

Converted to Well: Yes X No _____ Well I.D. #: MA-MW-95

Tetra Tech NUS, Inc.

# BORING LOG



PROJECT NAME: SUPPLEMENTAL PHASE II INVEST. MSA
PROJECT NUMBER:
DRILLING COMPANY: BOART LONGYEAR
DRILLING RIG: SPIDER SONIC ROTOSONIC

BORING No.: MA-MW-95
DATE: 5/27/2012
GEOLOGIST: W. O'Neil
DRILLER: Larry Hunsberger

| Sample No. and Type or RQD | Depth (Ft.) or Run No. | Blows / 6" or RQD (%) | Sample Recovery / Sample Length | Lithology Change (Depth/Ft.) or Screened Interval | MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness | MATERIAL DESCRIPTION: Color | MATERIAL DESCRIPTION: Material Classification | USCS * | Remarks | PID/FID Reading (ppm): Sample | Sampler BZ | Borehole** | Driller BZ** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 50 | | | | | | RED BROWN CLAY | | 0.0 | | | | |
| | | | | | | | DENSE, SLIGHTLY | | 0.0 | | | | |
| | | | | | | | PLIABLE, DRY | | | | | | |
| | 55 | | | | | | | | 0.0 | | | | |

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm): 0.0

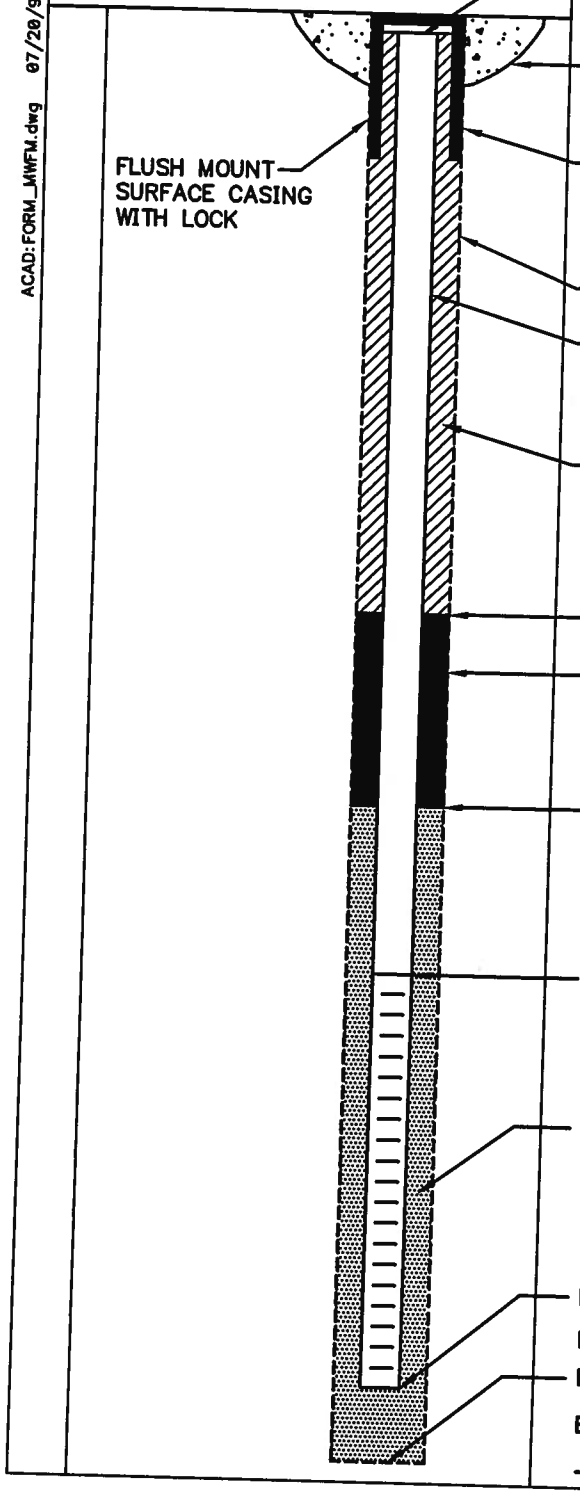
Converted to Well: Yes X No _____ Well I.D. #: MA-MW-95

WELL NO.: MT-MW-09S

Tetra Tech NUS, Inc.

# OVERBURDEN
# MONITORING WELL SHEET
# FLUSH - MOUNT

PROJECT SUPPLEMENTAL PHASE II INVEST
PROJECT NO.
DATE BEGUN 07/27/2012
FIELD GEOLOGIST W. ONeil
GROUND ELEVATION
LOCATION MSA Middle River MD
BORING MT-MW-09S
DATE COMPLETED 07/27/12
DATUM
DRILLER LARRY HUNSBERGER
DRILLING METHOD Roto Sonic
DEVELOPMENT METHOD




ELEVATION TOP OF RISER:

TYPE OF SURFACE SEAL: High Strength Concrete

TYPE OF PROTECTIVE CASING: Steel/plastic

I.D. OF PROTECTIVE CASING: ~~6~~ 8"

DIAMETER OF HOLE: 6"

TYPE OF RISER PIPE: PVC

RISER PIPE I.D.: 2"

TYPE OF BACKFILL/SEAL: Portland cement/ bentonite grout

ELEVATION/DEPTH TOP OF SEAL: 136

TYPE OF SEAL: Bentonite chips

ELEVATION/DEPTH TOP OF SAND: 138

ELEVATION/DEPTH TOP OF SCREEN: 140

TYPE OF SCREEN: PVC

SLOT SIZE x LENGTH: 0.01" X 10'

TYPE OF SAND PACK: #1 Silica

DIAMETER OF HOLE IN BEDROCK: N/A

ELEVATION / DEPTH BOTTOM OF SCREEN: 150

ELEVATION / DEPTH BOTTOM OF SAND: 150.5

ELEVATION/DEPTH BOTTOM OF HOLE: 155

BACKFILL MATERIAL BELOW SAND: Bentonite chips

ACAD:FORM_MWFM.dwg 07/20/99 INL

Tetra Tech NUS, Inc.

# BORING LOG



PROJECT NAME: SUPPLEMENTAL PHASE II MSA
PROJECT NUMBER:
DRILLING COMPANY: Boart Longyear
DRILLING RIG: Spider Sonic - rotosonic

BORING No.: MA-MW-105
DATE: 7/26/2012
GEOLOGIST: W. O'Neill
DRILLER: Larry Hunsberger

| Sample No. and Type or RQD | Depth (Ft.) or Run No. | Blows / 6" or RQD (%) | Sample Recovery / Sample Length | Lithology Change (Depth/Ft.) or Screened Interval | MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness | Color | Material Classification | USCS * | Remarks | PID/FID Reading (ppm): Sample | Sampler BZ | Borehole** | Driller BZ** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | | | | | | DARK BROWN SOIL, SLIGHTLY MOIST | | 0.3 | | | | |
| | | | | | | | Red Brown clayey Fill friable Dry | | 0.1 | | | | |
| | 5 | | | | | | | | 0.1 | | | | |
| | | | | | | | | | 0.3 | | | | |
| | | | | | | | RED BROWN PURPLE CLAY dense stiff dry | | 0.1 | | | | |
| | 10 | | | | | | | | 0.0 | | | | |
| | | | | | | | | | 0.0 | | | | |
| | 15 | | | | | | | | 0.0 | | | | |
| | | | | | | | | | 0.0 | | | | |
| | | | | | | | RED BROWN CLAY DENSE STIFF DRY | | 0.0 | | | | |
| | 20 | | | | | | | | 0.0 | | | | |
| | | | | | | | RED BROWN CLAY DENSE SLIGHTLY PLIABLE DRY | | 0.0 | | | | |
| | 25 | | | | | | | | 0.0 | | | | |

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read

Remarks:

Drilling Area Background (ppm): 0.0

Converted to Well: Yes X No _____ Well I.D. #: MA-MW-105

Tetra Tech NUS, Inc.

# BORING LOG



PROJECT NAME: SUPPLEMENTAL PHASE II INVEST MSA
PROJECT NUMBER:
DRILLING COMPANY: BOART LONGYEAR
DRILLING RIG: SPIDER SONIC - VOTO SONIC

BORING No.: MA-MW-105
DATE: 7/26/12
GEOLOGIST: W. ONELL
DRILLER: LARRY HUNSBERGER

| Sample No. and Type or RQD | Depth (Ft.) or Run No. | Blows / 6" or RQD (%) | Sample Recovery / Sample Length | Lithology Change (Depth/Ft.) or Screened Interval | MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness | Color | Material Classification | USCS * | Remarks | PID/FID Reading (ppm): Sample | Sampler BZ | Borehole** | Driller BZ** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 25 | | | | | | RED BROWN CLAY, SENSE SLIGHTLY PLIABLE DRY | | 0.0 | | | | |
| | | | | | | | RED BROWN CLAY, SLIGHTLY PLIABLE DRY | | 0.0 | | | | |
| | | | | | | | RED BROWN CLAY | | | | | | |
| | | | | | | | DENSE DRY | | 0.5 | | | | |
| | 30 | | | | | | | | | | | | |
| | | | | | | | | | 0.3 | | | | |
| | | | | | | | RED GRAY ORANGE CLAY DENSE DRY | | | | | | |
| | | | | | | | | | 0.0 | | | | |
| | | | | | | | GRAY CLAYEY SILT SOFT, V. SLIGHTLY MOIST | | | | | | |
| | 35 | | | | | | RED BROWN ORANGE CLAY DENSE, DRY | | 0.0 | | | | |
| | | | | | | | GRAY, ORANGE CLAYEY SANDY SILT, SOFT, MOIST | | | | | | |
| | | | | | | | gray orange SANDY CLAY, DENSE V. slightly moist | | 1.5 | | | | |
| | | | | | | | GRAY ORANGE CLAYEY SILT, pliable, slightly moist | | 1.3 | | | | |
| | 40 | | | | | | GRAY ORANGE SILTY CLAY, stiff, V. slightly moist | | | | | | |

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read

Remarks:

Drilling Area Background (ppm): 0.0

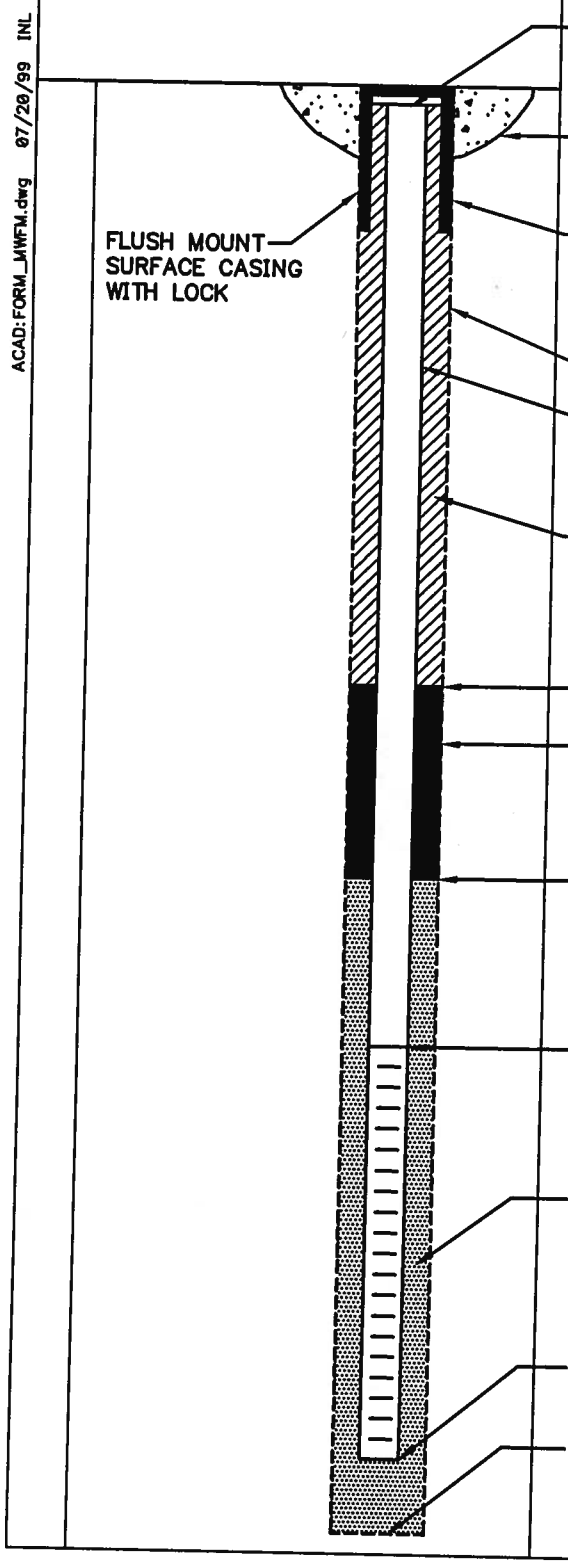
Converted to Well: Yes X No ____ Well I.D. #: MA-MW-105

WELL NO.: MF-MW-105

Tetra Tech NUS, Inc.

# OVERBURDEN
# MONITORING WELL SHEET
# FLUSH - MOUNT

PROJECT SUPPLEMENTAL PHASE II INVEST - MSA
PROJECT NO.
DATE BEGUN 7/26/2012
FIELD GEOLOGIST W-ONiell
GROUND ELEVATION
LOCATION MSA - Middle River MD
BORING MF-MW-105
DATE COMPLETED 07/26/12
DATUM
DRILLER LARRY HUNSBERGER
DRILLING METHOD ROTO SONIC
DEVELOPMENT METHOD




ELEVATION TOP OF RISER:

TYPE OF SURFACE SEAL: High strength Concrete

TYPE OF PROTECTIVE CASING: ~~6"~~ flush mount steel / plastic

I.D. OF PROTECTIVE CASING: ~~6"~~ 8"

DIAMETER OF HOLE: 6"

TYPE OF RISER PIPE: PVC

RISER PIPE I.D.: 2"

TYPE OF BACKFILL/SEAL: portland cement/ bentonite grout

ELEVATION/DEPTH TOP OF SEAL: 120'

TYPE OF SEAL: Bentonite chips

ELEVATION/DEPTH TOP OF SAND: 128'

ELEVATION/DEPTH TOP OF SCREEN: 130'

TYPE OF SCREEN: PVC

SLOT SIZE x LENGTH: 0.01" X 10'

TYPE OF SAND PACK: #1 SILICA

DIAMETER OF HOLE IN BEDROCK: N/A

ELEVATION / DEPTH BOTTOM OF SCREEN: 140'

ELEVATION / DEPTH BOTTOM OF SAND: 140'

ELEVATION/DEPTH BOTTOM OF HOLE: 140'

BACKFILL MATERIAL BELOW SAND: N/A

ACAD:FORM_MWFM.dwg 07/20/99 INL

Tetra Tech NUS, Inc.

# BORING LOG



PROJECT NAME: SUPPLEMENTAL PHASE II INVESTIGATION - MSA
PROJECT NUMBER:
DRILLING COMPANY: BOART LONGYEAR
DRILLING RIG: SPIDER SONIC ROTOSONIC

BORING No.: MA-MW-115
DATE: 7/25/2012
GEOLOGIST: W. ONIELL
DRILLER: LARRY HUNSBERGER

| Sample No. and Type or RQD | Depth (Ft.) or Run No. | Blows / 6" or RQD (%) | Sample Recovery / Sample Length | Lithology Change (Depth/Ft.) or Screened Interval | MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness | Color | Material Classification | USCS * | Remarks | PID/FID Reading (ppm): Sample | Sampler BZ | Borehole** | Driller BZ** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | | | | HARD | BLACK | ASPHALT | | 0.1 | | | | |
| | | | | | | | RED, ORANGE, GRAY CLAY, STIFF, DRY | | 0.1 | | | | |
| | 5 | | | | | | | | 0.6 | | | | |
| | | | | | | | | | 0.3 | | | | |
| | | | | | | | RED BROWN CLAY STIFF, DRY | | 0.1 | | | | |
| | 10 | | | | | | | | 0.1 | | | | |
| | | | | | | | RED BROWN CLAY STIFF, FRIABLE DRY | | 0.0 | | | | |
| | 15 | | | | | | | | 0.1 | | | | |
| | | | | | | | GRAY CLAY, V. SLIGHTLY PLIABLE, DRY | | 0.6 | | | | |
| | | | | | | | RED, BROWN & GRAY MOTTLED CLAY STIFF, DRY | | 0.6 | | | | |
| | 20 | | | | | | RED BROWN CLAY V. slightly pliable DRY | | 6.5 | | | | |
| | | | | | | | RED, BROWN, ORANGE CLAY, STIFF, DRY | | 0.6 | | | | |
| | 25 | | | | | | | | 0.3 | | | | |

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm): 0.0

Converted to Well: Yes X No _____ Well I.D. #: MA-MW-115

Tetra Tech NUS, Inc.

# BORING LOG



PROJECT NAME: SUPPLEMENTAL PHASE II INVESTIGATION MSA
PROJECT NUMBER:
DRILLING COMPANY: BOART LONGYEAR
DRILLING RIG: SPIDER SONIC - ROTOSONIC

BORING No.: MA - MW - 115
DATE: 7/25/2012
GEOLOGIST: W. ONeil
DRILLER: Larry Hunsberger

| Sample No. and Type or RQD | Depth (Ft.) or Run No. | Blows / 6" or RQD (%) | Sample Recovery / Sample Length | Lithology Change (Depth/Ft.) or Screened Interval | MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness | Color | Material Classification | USCS * | Remarks | PID/FID Reading (ppm): Sample | Sampler BZ | Borehole** | Driller BZ** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 25 | | | | | | RED, BROWN, ORANGE CLAY, STIFF, DRY | | 0.3 | | | | |
| | | | | | | | GRAY, SILTY CLAY, STIFF TO SOFT, V. SLIGHT MOISTURE | | 0.4 | | | | |
| | | | | | | | RED, BROWN SANDY CLAY, FRIABLE, DRY | | | | | | |
| | | | | | | | RED GRAY SILTY CLAY STIFF, DRY | | 0.8 | | | | |
| | 30 | | | | | | RED BROWN CLAY STIFF DRY | | | | | | |
| | | | | | | | | | 0.8 | | | | |
| | | | | | | | RED, GRAY, PINK, ORANGE SILTY CLAY, FRIABLE, DRY | | | | | | |
| | | | | | | | | | 0.7 | | | | |
| | 35 | | | | | | RED, BROWN, ORANGE | | 0.4 | | | | |
| | | | | | | | CLAY, FRIABLE, STIFF & DRY WITH | | | | | | |
| | | | | | | | BROWN SILTY CLAY LENSES, V. SLIGHTLY | | 0.3 | | | | |
| | | | | | | | MOIST @ 34 to 34,5' | | | | | | |
| | | | | | | | RED, GRAY CLAY | | 0.4 | | | | |
| | 40 | | | | | | STIFF, DRY | | | | | | |
| | | | | | | | | | 0.4 | | | | |
| | | | | | | | GRAY SILTY CLAY Slightly stiff, V. slightly moist | | | | | | |
| | | | | | | | RED, GRAY, CLAY TO SILTY CLAY, STIFF TO PLIABLE V. slightly moist | | 0.2 | | | | |
| | 45 | | | | | | | | 0.3 | | | | |
| | | | | | | | RED, GRAY CLAY HARD FRIABLE | | | | | | |
| | | | | | | | DRY | | 0.5 | | | | |
| | | | | | | | | | 0.4 | | | | |
| | 50 | | | | | | | | | | | | |

* When rock conng, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0.0

Remarks: WELL WILL NOT MAKE A LOT OF WATER DUE TO ABSENCE OF SIGNIFICANT ~~SAT~~ SATURATED ZONE

Converted to Well: Yes X No _____ Well I.D. #: MA - MW - 115

Tetra Tech NUS, Inc.

# OVERBURDEN MONITORING WELL SHEET FLUSH - MOUNT

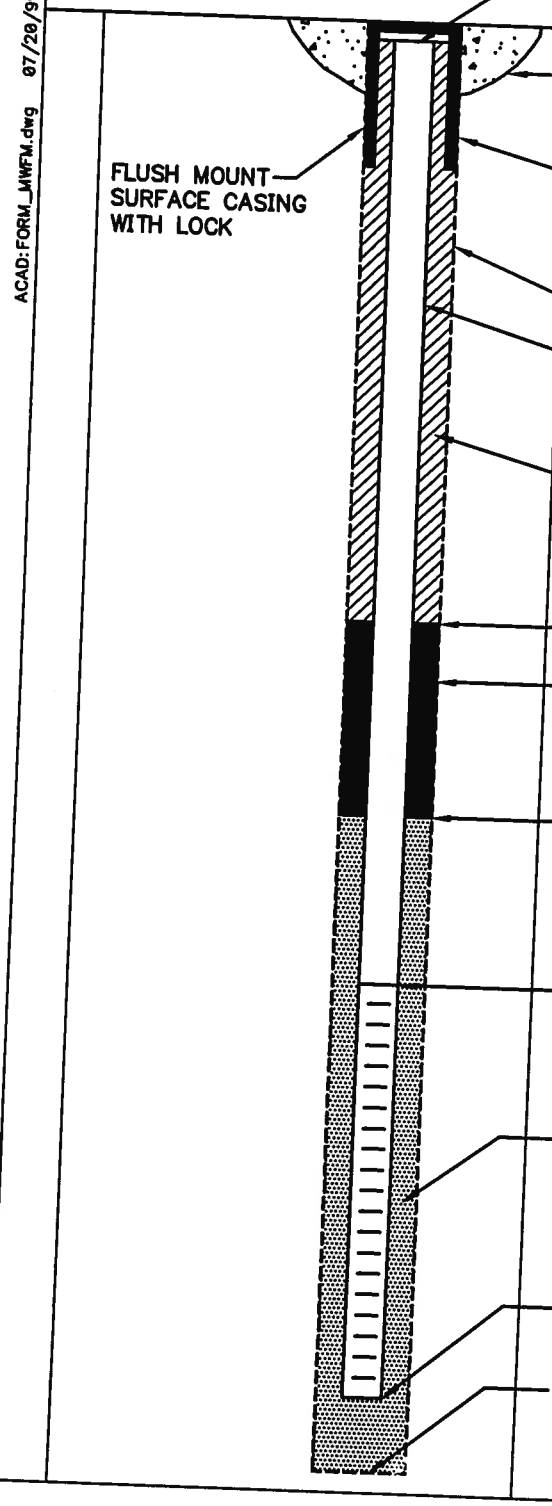
WELL NO.: MX-MW-11S

PROJECT Supplemental PHASE II MSA
PROJECT NO.
DATE BEGUN 7/25/12
FIELD GEOLOGIST W. O'Neill
GROUND ELEVATION ____ DATUM ____

LOCATION Middle River, MD
BORING MX-MW-11S
DATE COMPLETED 07/25/12

DRILLER Larry Hunsberger
DRILLING METHOD Roto Sonic
DEVELOPMENT METHOD

ACAD:FORM_MWFM.dwg 07/20/99 INL




ELEVATION TOP OF RISER: ____

TYPE OF SURFACE SEAL: Concrete High strength

TYPE OF PROTECTIVE CASING: Steel/plastic

I.D. OF PROTECTIVE CASING: 8"

DIAMETER OF HOLE: 6"

TYPE OF RISER PIPE: PVC

RISER PIPE I.D.: 2"

TYPE OF BACKFILL/SEAL: Portland Cement w/ bentonite grout

ELEVATION/DEPTH TOP OF SEAL: 121'

TYPE OF SEAL: Bentonite Chips

ELEVATION/DEPTH TOP OF SAND: 123'

ELEVATION/DEPTH TOP OF SCREEN: 125'

TYPE OF SCREEN: PVC

SLOT SIZE x LENGTH: 0.01 X 20'

TYPE OF SAND PACK: #1 Silica

DIAMETER OF HOLE IN BEDROCK: N/A

ELEVATION / DEPTH BOTTOM OF SCREEN: 145'

ELEVATION / DEPTH BOTTOM OF SAND: 145.5'

ELEVATION/DEPTH BOTTOM OF HOLE: 149'

BACKFILL MATERIAL BELOW SAND: Bentonite Chips

Tetra Tech NUS, Inc.

# BORING LOG



PROJECT NAME: SUPPLEMENTAL PHASE II INVESTIGATION MSA
PROJECT NUMBER:
DRILLING COMPANY: Boart Longyear
DRILLING RIG: SPIDER SONIC / ROTOSONIC

BORING No.: MA-MW-125
DATE: 7/26/2012
GEOLOGIST: W. ONeil
DRILLER: Larry Hunsberger

| Sample No. and Type or RQD | Depth (Ft.) or Run No. | Blows / 6" or RQD (%) | Sample Recovery / Sample Length | Lithology Change (Depth/Ft.) or Screened Interval | MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness | Color | Material Classification | USCS * | Remarks | PID/FID Reading (ppm): Sample | Sampler BZ | Borehole** | Driller BZ** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | | | | | | ASPHALT & CONCRETE | | 20.6 | | | | |
| | | | | | | | | | 0.5 | | | | |
| | 5 | | | | | | ORANGE, RED CLAY | | 0.3 | | | | |
| | | | | | | | STIFF/DENSE, DRY | | 0.2 | | | | |
| | | | | | | | | | 0.2 | | | | |
| | 10 | | | | | | | | | | | | |
| | | | | | | | red/white CLAY STIFF DRY | | 0.1 | | | | |
| | | | | | | | RED CLAY HARD, FRIABLE, DRY | | 0.1 | | | | |
| | | | | | | | RED CLAY, DENSE | | | | | | |
| | 15 | | | | | | SLIGHTLY PLIABLE, DRY | | 0.4 | | | | |
| | | | | | | | ~~TAN/RED CLAYEY SILT SOFT, SLIGHTLY MOIST~~ | | @ DENSE, DRY | | | | |
| | | | | | | | TAN/RED CLAYEY SILT SOFT, SLIGHTLY MOIST | | | | | | |
| | | | | | | | RED CLAY DENSE, DRY | | | | | | |
| | | | | | | | ORANGE SANDY, CLAYEY SILT, SOFT, MOIST | | 0.1 | | | | |
| | | | | | | | RED CLAY, DENSE, DRY | | 0.1 | | | | |
| | 20 | | | | | | | | | | | | |
| | | | | | | | RED/GRAY CLAY | | 0.3 | | | | |
| | | | | | | | STIFF, DRY | | | | | | |
| | | | | | | | GRAY CLAY | | 0.3 | | | | |
| | | | | | | | STIFF, VI SLIGHTLY MOIST | | | | | | |
| | 25 | | | | | | | | 0.2 | | | | |

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm): 0.0

Converted to Well: Yes X No Well I.D. #: MA-MW-125

Tetra Tech NUS, Inc.

# BORING LOG



PROJECT NAME: SUPPLEMENTAL PHASE II INVESTIGATION MSA
PROJECT NUMBER:
DRILLING COMPANY: BoArt Longyear
DRILLING RIG: Spider Sonic - Rotosonic

BORING No.: ~~MA~~-MW-125
DATE: 7/26/2012
GEOLOGIST: W. ONeil
DRILLER: Larry Hunsberger

| Sample No. and Type or RQD | Depth (Ft.) or Run No. | Blows / 6" or RQD (%) | Sample Recovery / Sample Length | Lithology Change (Depth/Ft.) or Screened Interval | MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness | Color | Material Classification | USCS * | Remarks | PID/FID Reading (ppm): Sample | Sampler BZ | Borehole** | Driller BZ** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 25 | | | | | | GRAY CLAY, STIFF, V. SLIGHTLY MOIST | | 0.2 | | | | |
| | | | | | | | RED BROWN CLAY | | | | | | |
| | | | | | | | STIFF, DRY | | 0.1 | | | | |
| | | | | | | | RED, PINK, WHITE | | 0.3 | | | | |
| | 30 | | | | | | CLAY PLIABLE V. SLIGHTLY MOIST | | | | | | |
| | | | | 5/52 | | | M. BROWN CLAYEY SILT, PLIABLE V. SLIGHTLY MOIST | | 0.2 | | | | |
| | | | | | | | RED, ORANGE, GRAY | | | | | | |
| | | | | | | | CLAY, DENSE DRY | | 0.1 | | | | |
| | 35 | | | | | | RED ORANGE CLAY DENSE, DRY | | 0.0 | | | | |

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read

Remarks:

Drilling Area Background (ppm): 0.0

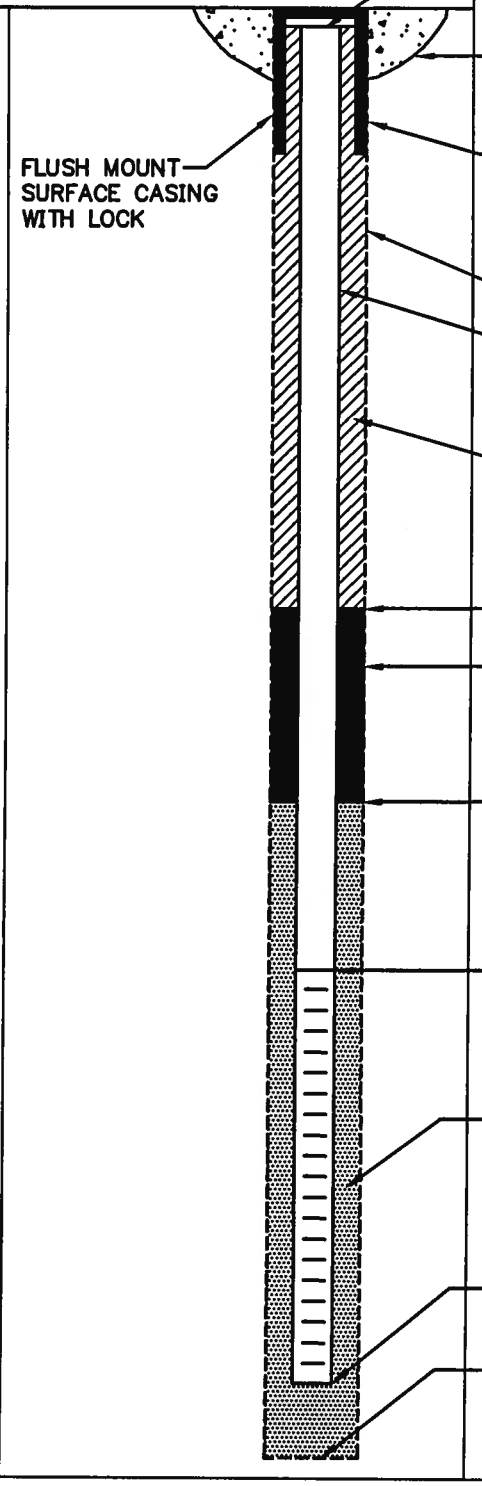
Converted to Well: Yes X No Well I.D. #: MA - MW - 125

WELL NO.: MTA-MW-115

Tetra Tech NUS, Inc.

# OVERBURDEN
# MONITORING WELL SHEET
# FLUSH - MOUNT

| | | |
|---|---|---|
| PROJECT: SUPPLEMENTAL PHASE II INVEST, MSA | LOCATION: MSA Middle River MD | DRILLER: Larry Hunsberger |
| PROJECT NO.: | BORING: MTA-MW-115 | DRILLING METHOD: Roto Sonic |
| DATE BEGUN: 7/26/12 | DATE COMPLETED: 07/26/12 | |
| FIELD GEOLOGIST: W ONeil | | DEVELOPMENT METHOD: |
| GROUND ELEVATION: | DATUM: | |




ELEVATION TOP OF RISER: _____

TYPE OF SURFACE SEAL: High strength concrete

TYPE OF PROTECTIVE CASING: Steel/plastic

I.D. OF PROTECTIVE CASING: ~~8"~~ 8"

DIAMETER OF HOLE: 6"

TYPE OF RISER PIPE: PVC

RISER PIPE I.D.: 2"

TYPE OF BACKFILL/SEAL: Portland cement/ bentonite grout

ELEVATION/DEPTH TOP OF SEAL: ~~1000~~ 11'

TYPE OF SEAL: Bentonite chips

ELEVATION/DEPTH TOP OF SAND: ~~1000~~ 13'

ELEVATION/DEPTH TOP OF SCREEN: ~~1000~~ 15'

TYPE OF SCREEN: PVC

SLOT SIZE x LENGTH: 0.01" X 20'

TYPE OF SAND PACK: #1 Silica

DIAMETER OF HOLE IN BEDROCK: N/A

ELEVATION / DEPTH BOTTOM OF SCREEN: 35'

ELEVATION / DEPTH BOTTOM OF SAND: 35'

ELEVATION/DEPTH BOTTOM OF HOLE: 35'

BACKFILL MATERIAL BELOW SAND: N/A

ACAD:FORM_MWFM.dwg 07/20/99 INL

Tetra Tech NUS, Inc.

# MONITORING WELL DEVELOPMENT RECORD

Page 1 of 1

Well: MT-MW-075
Site: MSA - Middle Ranch
Date Installed: 7/28/12
Date Developed: 7/30/12
Dev. Method: Submersible
Pump Type: 12V

Depth to Bottom (ft.): 9.22 w/ pump
Static Water Level Before (ft.): 9.39
Static Water Level After (ft.): 35'
Screen Length (ft.): 10'
Specific Capacity: 130.8 gal/ft/day
Casing ID (in.): 2"

Responsible Personnel: W. Oneil
Drilling Co.: Boart Longyear
Project Name: Supplemental Phase II Invest. MSA
Project Number:

| Time | Estimated Sediment Thickness (Ft.) | Cumulative Water Volume (Gal.) | Water Level Readings (Ft. below TOC) | Temperature (Degrees C) 22.00 | pH | Specific Conductance (Units mS/cm) | Turbidity (NTU) | Remarks (odor, color, etc.) |
|---|---|---|---|---|---|---|---|---|
| 1124 | 24" | 0 | 9.22 | 23.45 | 6.03 | 0.126 | off scale | pumping at MAX speed |
| 1130 | <1" | 9.6 | 25.28 | ~~25.28~~ | 5.47 | 0.085 | " | pump at bottom of well |
| 1138 | <1" | | | | | | | pumped dry |
| Restart 1145 | <1" | 11.5 | 21.05 | 21.24 | 4.68 | 0.058 | 2205 | |
| 1152 | — | 38.3 | ~~26.34~~ N/A | 20.34 | ~~7.62~~ 4.62 | 0.051 | 1350 | still pumping |
| 1210 | — | 50 | ~~20.36~~ N/A | 20.26 | 4.56 | 0.044 | 27 | " " 2 GPM to get new down |
| we start 1216 | — | | | | | | | |
| 1224 | | 60 | N/A | 21.17 | 4.60 | 0.045 | 0.96 | turbidity up |
| 1232 | | 70 | | 21.24 | 4.61 | 0.045 | 1.36 | should be OK at this point |

Tetra Tech NUS, Inc.

# MONITORING WELL DEVELOPMENT RECORD



Well: MT-MW-08S
Site: MSA - Middle River MD
Date Installed: 7/28/12
Date Developed: 7/30/12
Dev. Method: Submersible pump
Pump Type: 12V

Depth to Bottom (ft.): 35' (pulled w/ pump)
Static Water Level Before (ft.): 10.59"
Static Water Level After (ft.): _____
Screen Length (ft.): 10'
Specific Capacity: 87.7 gl/ft/day
Casing ID (in.): 2"

Responsible Personnel: W. Orrell
Drilling Co.: Boart Longyear
Project Name: Supplemental Phase II Invest MSA
Project Number: _____

| Time | Estimated Sediment Thickness (Ft.) | Cumulative Water Volume (Gal.) | Water Level Readings (Ft. below TOC) | Temperature (Degrees C) | pH | Specific Conductance (Units _____) | Turbidity (NTU) | Remarks (odor, color, etc.) |
|---|---|---|---|---|---|---|---|---|
| 1255 | <1" | 0 | 9.12 | — | — | — | — | ~~Start~~ at full speed |
| 1257 | — | | | 24.93 | 6.3 | 0.173 | 65 | |
| 1300 | — | 4.75 | N/A | | | | | pumped dry |
| restart 1332 | | | 30.00 | | | | | |
| 1334 | | 5.5 | N/A | 24.25 | 6.82 | 0.323 | 169 | pumped dry |
| restart 1348 | | | 34.62 | | | | | |
| 1349 | | Gal | N/A | 26.78 | 6.74 | 0.265 | 243 | pumped dry |
| | | | | | | | | |
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Tetra Tech NUS, Inc.

# MONITORING WELL DEVELOPMENT RECORD



Well: MW-MW-095
Site: MSA - Middle River, MD
Date Installed: 7/27/12
Date Developed: 7/29/12 & 7/30/12
Dev. Method: bailer
Pump Type: _____

Depth to Bottom (ft.): 50'
Static Water Level Before (ft.): 46.29
Static Water Level After (ft.): _____
Screen Length (ft.): 10'
Specific Capacity: ?
Casing ID (in.): 2"

Responsible Personnel: W. ONeil
Drilling Co.: Boart Longyear
Project Name: Supplemental Phase II Invest. MSA
Project Number: _____

| | Time | Estimated Sediment Thickness (Ft.) | Cumulative Water Volume (Gal.) | Water Level Readings (Ft. below TOC) | Temperature (Degrees C) | pH | Specific Conductance (Units _____) | Turbidity (NTU) | Remarks (odor, color, etc.) |
|---|---|---|---|---|---|---|---|---|---|
| 7/29/12 | 1400 | | 1 | 46.03' | | | | | bailed dry after 1 gallon |
| | | | | | | | | | |
| 7/30/12 | 0730 | | 1.5 | 46.29' | | | | | bailed dry after ½ gallon |
| | | | | | | | | | very turbid |
| | | | | | | | | | |
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Tetra Tech NUS, Inc.

# MONITORING WELL DEVELOPMENT RECORD

Page 1 of 1

Well: MT-MW-105 / Middle River MD
Site: MSA - Manton St. Airport
Date Installed: 7/26/12
Date Developed: 7/30/12
Dev. Method: Submersible pump
Pump Type: 12v
Depth to Bottom (ft.): 35'
Static Water Level Before (ft.): 11.88'
Static Water Level After (ft.): _____
Screen Length (ft.): 10'
Specific Capacity: 22 to 43 gal/ft/day
Casing ID (in.): 2"
Responsible Personnel: W. Oneill
Drilling Co.: Boart Longyear
Project Name: Supplemental Phase II Invest. MSA
Project Number: _____

| Time | Estimated Sediment Thickness (Ft.) | Cumulative Water Volume (Gal.) | Water Level Readings (Ft. below TOC) | Temperature (Degrees C) | pH | Specific Conductance (Units ~~S/cm~~) | Turbidity (NTU) | Remarks (odor, color, etc.) |
|---|---|---|---|---|---|---|---|---|
| 0810 | ≈12" | <1 | 17.8' | 18.45 | 6.05 | 0.347 | off Scale | Very turbid ppt @ 0824 |
| 0900 restart | <1" | 9.5 | 32.6' | 24.58 | 6.23 | 0.317 | " | Flow 0.13 gpm |
| 0915 | " | 12.3 | 34.63 | 24.05 | 6.08 | 0.256 | 2218 | Flow ~~0.12~~ 0.18 gpm INC. flow↑ |
| 0929 | " | | | | | | | pumped dry |
| 0953 restart | " | 13.9 | 33.00' | 24.77 | 5.94 | 0.225 | off scale | |
| 1005 | " | 15.20 | 35.45 | 24.01 | 5.93 | 0.218 | 1296 | |
| 1012 | " | 16.4 | | | | | | INCreased Flow & pumped dry |
| 1032 restart | " | | 34.80' | ~~22.55~~ | ~~5.83~~ | ~~0.221~~ | | MAx flow |
| 1033.5 | " | 17.24 | | 22.55 | 5.83 | 0.221 | off scale | pumped dry |
| 1051 | " | 18.00 | 35.00 | 26.46 | ~~5.72~~ 5.72 | ~~0.113~~ | ~~1010~~ | pumped dry |
| | | | | | | | | |
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Note: measuring in cup because flow through cell leaks

Tetra Tech NUS, Inc.

# MONITORING WELL DEVELOPMENT RECORD



30.34 7/29/12

Well: MW-MW-11S
Site: MSA - Middle River, MD
Date Installed: 7/25/12
Date Developed: 7/30/12
Dev. Method: ~~Submersible pump~~ Bailer
Pump Type: ~~12V~~
Depth to Bottom (ft.): 45
Static Water Level Before (ft.): 38.41
Static Water Level After (ft.): _____
Screen Length (ft.): 20'
Specific Capacity: _____
Casing ID (in.): 2"
Responsible Personnel: W. ONeil
Drilling Co.: Boart Longyear
Project Name: Supplemental Phase II INVest. MSA
Project Number: _____

| Time | Estimated Sediment Thickness (Ft.) | Cumulative Water Volume (Gal.) | Water Level Readings (Ft. below TOC) | Temperature (Degrees C) | pH | Specific Conductance (Units mS/cm) | Turbidity (NTU) | Remarks (odor, color, etc.) |
|---|---|---|---|---|---|---|---|---|
| 7/29/12 | | | 30.34 | | | | | |
| 1710 | | 5.5 | | | | | | DTW @ 40.42' after bailing 5.5 gal |
| 7/30/12 1458 | | | 38.41 | | | | 1000 | |
| 1515 | | | | 24.85 | 6.97 | 0.477 | 1040 | |
| 1550 | | 7.5 | ~~40.30~~ 44.30 | | | | | |

Tetra Tech NUS, Inc.

# MONITORING WELL DEVELOPMENT RECORD



Well: MW-MW-12S
Site: MSA - Middle Road
Date Installed: 7/26/12
*Date Developed: 7/30/12
Dev. Method: submersible pump
Pump Type: 12 volt

Depth to Bottom (ft.): 35' / 19.85 w/ pump
Static Water Level Before (ft.): 20.42'
Static Water Level After (ft.):
Screen Length (ft.): 20'
Specific Capacity: 88 gal/ft/day
Casing ID (in.): 2"

Responsible Personnel: G. O'Neil
Drilling Co.: Brant Longyear
Project Name: Supplemental Phase II Invest MSA
Project Number:

| Time | Estimated Sediment Thickness (Ft.) | Cumulative Water Volume (Gal.) | Water Level Readings (Ft. below TOC) | Temperature (Degrees C) | pH | Specific Conductance (Units mS/cm) | Turbidity (NTU) | Remarks (odor, color, etc.) |
|---|---|---|---|---|---|---|---|---|
| 1426 | | 0 | 19.85 | — | — | — | — | Start pump At MW Board |
| 1430 | — | 3.73 | N/A | 28.76 | 6.58 | 0.734 | 64.6 | pumped dry |
| restart 1555 | | | 27.37 | 25.26 | 6.38 | 0.783 | 57.59 | |
| 1558 | | 5.3 | | | | | | pumped dry |
| restart 1700 | | 6.3 | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |
| *note Backed 10 gallons from well | | | MA-MW 12 on 7/29/12 | | | | | |
| Initial DTW was | | | 9.59' @ | 1445 on | 7/29/12 | | | |
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# APPENDIX C—SYNOPTIC GROUNDWATER-LEVEL DATA

**Groundwater Levels and Elevations**
**Lockheed Martin Martin State Airport, Middle River, Maryland**


| Well ID | Date of Well Installation | Aquifer Level | Northing[1] NAD83 Feet | Easting[1] NAD83 Feet | Elevation[1] Ground NAVD88 Feet | Elevation[1] Top of PVC NAVD88 Feet | Well Casing Stickup/ Stickdown (-) Feet | Elevation[1] Screen Midpoint NAVD88 Feet | Well Casing and Screen Diameter Inches | Depth Top of Screen Below Grade Feet | Depth Bottom of Screen Below Grade Feet | Elevation[1] Top of Screen NAVD88 Feet | Elevation[1] Bottom of Screen NAVD88 Feet | Well Screen Length Feet | Depth Top of Filterpack Below Grade Feet | Depth Bottom of Filterpack Below Grade Feet | Well Filterpack Thickness Feet | Well Borehole Diameter Inches | Depth to Groundwater Top of Well Casing 10/14/2003 Feet | Groundwater Elevation[1] NAVD88 10/14/2003 Feet | Depth to Groundwater Top of Well Casing 12/1/2003 Feet | Groundwater Elevation[1] NAVD88 12/1/2003 Feet | Depth to Groundwater Top of Well Casing 9/30/2004 Feet | Groundwater Elevation[1] NAVD88 9/30/2004 Feet |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DMW-1A | 5/1/2002 | I | 604398.60 | 1479498.32 | 10.37 | 12.05 | 1.68 | -39.63 | 2 | 45.00 | 55.00 | -34.63 | -44.63 | 10 | 44.00 | 56.00 | 12.00 | 8 | 8.43 | 3.62 | 8.91 | 3.14 | 9.50 | 2.55 |
| DMW-1B | 5/1/2002 | D | 604398.60 | 1479498.32 | 10.37 | 12.04 | 1.67 | -75.13 | 2 | 83.00 | 88.00 | -72.63 | -77.63 | 5 | 82.00 | 89.00 | 7.00 | 8 | 8.81 | 3.23 | 9.54 | 2.50 | 9.65 | 2.39 |
| DMW-1S | 7/28/2003 | S | 604458.58 | 1479310.48 | 11.41 | 11.08 | -0.33 | -2.25 | 2 | 8.66 | 18.66 | 2.75 | -7.25 | 10 | 5.66 | 18.66 | 13.00 | 8.25 | 7.34 | 3.74 | 7.74 | 3.34 | 8.50 | 2.58 |
| DMW-2A | 5/1/2002 | I | 604678.82 | 1479789.39 | 19.58 | 21.65 | 2.07 | -35.42 | 2 | 50.00 | 60.00 | -30.42 | -40.42 | 10 | 49.00 | 61.00 | 12.00 | 8 | 19.37 | 2.28 | 20.92 | 0.73 | 20.13 | 1.52 |
| DMW-2B | 5/1/2002 | D | 604678.82 | 1479789.39 | 19.58 | 21.66 | 2.08 | -70.42 | 2 | 85.00 | 95.00 | -65.42 | -75.42 | 10 | 84.00 | 96.00 | 12.00 | 8 | 19.14 | 2.52 | 20.55 | 1.11 | 19.90 | 1.76 |
| DMW-2S | 7/17/2003 | S | 604670.41 | 1479807.55 | 19.34 | 21.75 | 2.41 | -6.26 | 2 | 20.60 | 30.60 | -1.26 | -11.26 | 10 | 17.60 | 30.60 | 13.00 | 8.25 | 19.31 | 2.44 | 20.53 | 1.22 | 20.60 | 1.15 |
| DMW-3D | 7/10/2003 | D | 604810.48 | 1479731.13 | 16.47 | 16.46 | -0.01 | -63.79 | 2 | 75.26 | 85.26 | -58.79 | -68.79 | 10 | 68.80 | 88.00 | 19.20 | 8.25 | 14.02 | 2.44 | 15.61 | 0.85 | 14.82 | 1.64 |
| DMW-3I | 7/11/2003 | I | 604810.48 | 1479731.13 | 16.47 | 16.45 | -0.02 | -36.79 | 2 | 48.26 | 58.26 | -31.79 | -41.79 | 10 | 41.00 | 62.00 | 21.00 | 8.25 | 14.03 | 2.42 | 15.53 | 0.92 | 14.85 | 1.60 |
| DMW-3S | 7/11/2003 | S | 604804.87 | 1479733.91 | 16.53 | 16.52 | -0.01 | -5.43 | 2 | 16.96 | 26.96 | -0.43 | -10.43 | 10 | 14.10 | 26.96 | 12.86 | 8.25 | 14.41 | 2.11 | 10.06 | 6.46 | 10.51 | 6.01 |
| DMW-4D | 7/16/2003 | D | 604566.00 | 1480031.48 | 17.52 | 20.44 | 2.92 | -58.00 | 2 | 70.52 | 80.52 | -53.00 | -63.00 | 10 | 67.00 | 90.00 | 23.00 | 8.25 | 18.32 | 2.12 | 20.11 | 0.33 | 19.00 | 1.44 |
| DMW-4I | 7/16/2003 | I | 604566.00 | 1480031.48 | 17.52 | 20.48 | 2.96 | -34.11 | 2 | 46.63 | 56.63 | -29.11 | -39.11 | 10 | 39.00 | 62.00 | 23.00 | 8.25 | 18.23 | 2.25 | 19.70 | 0.78 | 18.95 | 1.53 |
| DMW-4S | 7/17/2003 | S | 604563.04 | 1480036.27 | 17.61 | 20.52 | 2.91 | -7.34 | 2 | 19.95 | 29.95 | -2.34 | -12.34 | 10 | 17.00 | 30.00 | 13.00 | 8.25 | 18.55 | 1.97 | 20.15 | 0.37 | 19.25 | 1.27 |
| DMW-5D | 7/22/2003 | D | 604431.10 | 1480140.63 | 18.66 | 21.38 | 2.72 | -57.39 | 2 | 71.05 | 81.05 | -52.39 | -62.39 | 10 | 67.00 | 100.00 | 33.00 | 8.25 | 19.18 | 2.20 | 20.81 | 0.57 | 20.02 | 1.36 |
| DMW-5I | 7/22/2003 | I | 604431.10 | 1480140.50 | 18.66 | 21.39 | 2.73 | -32.79 | 2 | 46.45 | 56.45 | -27.79 | -37.79 | 10 | 39.00 | 62.00 | 23.00 | 8.25 | 19.13 | 2.26 | 20.68 | 0.71 | 19.95 | 1.44 |
| DMW-5S | 7/23/2003 | S | 604430.05 | 1480141.08 | 18.50 | 21.34 | 2.84 | -6.95 | 2 | 20.45 | 30.45 | -1.95 | -11.95 | 10 | 17.00 | 35.00 | 18.00 | 8.25 | 19.09 | 2.25 | 20.48 | 0.86 | 20.12 | 1.22 |
| DMW-6D | 7/24/2003 | D | 604193.59 | 1480266.19 | 15.61 | 18.51 | 2.90 | -49.44 | 2 | 60.05 | 70.05 | -44.44 | -54.44 | 10 | 57.50 | 85.00 | 27.50 | 8.25 | 16.29 | 2.22 | 17.76 | 0.75 | 17.25 | 1.26 |
| DMW-6I | 7/24/2003 | I | 604193.59 | 1480266.19 | 15.61 | 18.64 | 3.03 | -30.67 | 2 | 41.28 | 51.28 | -25.67 | -35.67 | 10 | 35.00 | 54.50 | 19.50 | 8.25 | 16.41 | 2.23 | 17.71 | 0.93 | 17.15 | 1.49 |
| DMW-6S | 7/25/2003 | S | 604190.48 | 1480255.05 | 15.95 | 18.62 | 2.67 | -4.59 | 2 | 15.54 | 25.54 | 0.41 | -9.59 | 10 | 14.00 | 27.00 | 13.00 | 8.25 | 16.20 | 2.42 | 17.72 | 0.90 | 17.09 | 1.53 |
| DMW-7D | 7/29/2003 | D | 604287.20 | 1479924.19 | 19.22 | 21.94 | 2.72 | -54.93 | 2 | 69.15 | 79.15 | -49.93 | -59.93 | 10 | 63.00 | 82.00 | 19.00 | 8.25 | 19.31 | 2.63 | 20.41 | 1.53 | 20.11 | 1.83 |
| DMW-7I | 7/29/2003 | I | 604287.20 | 1479924.19 | 19.22 | 21.90 | 2.68 | -29.89 | 2 | 44.11 | 54.11 | -24.89 | -34.89 | 10 | 39.00 | 57.50 | 18.50 | 8.25 | 19.28 | 2.62 | 20.49 | 1.41 | 20.20 | 1.70 |
| DMW-7S | 7/30/2003 | S | 604291.49 | 1479921.81 | 19.21 | 21.84 | 2.63 | -5.56 | 2 | 19.77 | 29.77 | -0.56 | -10.56 | 10 | 16.00 | 29.77 | 13.77 | 8.25 | 19.18 | 2.66 | 20.14 | 1.70 | 19.98 | 1.86 |
| DMW-8D | 7/31/2003 | D | 604516.04 | 1479673.57 | 13.62 | 16.35 | 2.73 | -51.08 | 2 | 59.70 | 69.70 | -46.08 | -56.08 | 10 | 54.00 | 85.00 | 31.00 | 8.25 | 13.64 | 2.71 | 14.65 | 1.70 | 14.31 | 2.04 |
| DMW-8I | 7/31/2003 | I | 604516.04 | 1479673.57 | 13.62 | 16.30 | 2.68 | -26.42 | 2 | 35.04 | 45.04 | -21.42 | -31.42 | 10 | 29.00 | 49.00 | 20.00 | 8.25 | 13.64 | 2.66 | 14.60 | 1.70 | 14.37 | 1.93 |
| DMW-8S | 7/31/2003 | S | 604516.62 | 1479667.79 | 13.35 | 15.80 | 2.45 | -1.60 | 2 | 9.95 | 19.95 | 3.40 | -6.60 | 10 | 7.00 | 19.95 | 12.95 | 8.25 | 12.38 | 3.42 | 11.86 | 3.94 | 14.20 | 1.60 |
| DMW-9D | 8/6/2003 | D | 604764.91 | 1479293.42 | 8.71 | 11.41 | 2.70 | -56.49 | 2 | 60.20 | 70.20 | -51.49 | -61.49 | 10 | 54.00 | 85.00 | 31.00 | 8.25 | 8.22 | 3.19 | 9.21 | 2.20 | 9.20 | 2.21 |
| DMW-9I | 8/6/2003 | I | 604764.91 | 1479293.42 | 8.71 | 11.40 | 2.69 | -30.99 | 2 | 34.70 | 44.70 | -25.99 | -35.99 | 10 | 29.00 | 49.00 | 20.00 | 8.25 | 7.95 | 3.45 | 9.18 | 2.22 | 9.16 | 2.24 |
| DMW-9S | 8/6/2003 | S | 604771.56 | 1479286.86 | 8.76 | 11.45 | 2.69 | -5.69 | 2 | 9.45 | 19.45 | -0.69 | -10.69 | 10 | 6.00 | 20.00 | 14.00 | 8.25 | 7.91 | 3.54 | 8.44 | 3.01 | 9.22 | 2.23 |
| MW-1[2] | 8/10/1994 | I | 604052.58 | 1479214.74 | 10.69 | 10.69 | -- | -30.31 | 4 | 36.00 | 46.00 | -25.31 | -35.31 | 10 | 34.00 | 46.00 | 12.00 | 10 | 6.92 | 3.77 | 6.35 | 4.34 | -- | -- |
| MW-10I | 8/13/2003 | I | 604630.69 | 1479217.34 | 10.43 | 10.27 | -0.16 | -29.53 | 2 | 34.96 | 44.96 | -24.53 | -34.53 | 10 | 32.00 | 44.96 | 12.96 | 8.25 | 6.78 | 3.49 | 7.25 | 3.02 | 7.70 | 2.57 |
| MW-10S | 8/27/2003 | S | 604636.82 | 1479225.83 | 10.24 | 10.29 | 0.05 | -5.44 | 2 | 10.68 | 20.68 | -0.44 | -10.44 | 10 | 7.00 | 20.68 | 13.68 | 8.25 | 6.60 | 3.69 | 6.94 | 3.35 | 7.80 | 2.49 |
| MW-11I | 8/14/2003 | I | 604429.32 | 1478930.78 | 9.38 | 9.15 | -0.23 | -26.18 | 2 | 30.56 | 40.56 | -21.18 | -31.18 | 10 | 27.56 | 40.56 | 13.00 | 8.25 | 5.20 | 3.95 | 5.60 | 3.55 | 6.30 | 2.85 |
| MW-11S | 8/27/2003 | S | 604424.24 | 1478934.92 | 9.35 | 9.20 | -0.15 | -5.66 | 2 | 10.01 | 20.01 | -0.66 | -10.66 | 10 | 8.00 | 20.01 | 12.01 | 8.25 | 3.43 | 5.77 | 3.20 | 6.00 | 3.30 | 5.90 |
| MW-14D | 2/23/2007 | DD | 605129.85 | 1479550.68 | 11.95 | 11.56 | -0.39 | -101.05 | 2 | 108.00 | 118.00 | -96.05 | -106.05 | 10 | 106.0 | 118.0 | 12.0 | 10 | -- | -- | -- | -- | -- | -- |
| MW-14I | 2/23/2007 | I | 605129.85 | 1479550.68 | 11.95 | 11.72 | -0.23 | -33.05 | 2 | 40.00 | 50.00 | -28.05 | -38.05 | 10 | 37.00 | 55.00 | 18.00 | 10 | -- | -- | -- | -- | -- | -- |
| MW-15D | 11/7/2007 | D | 605010.96 | 1479028.29 | 6.29 | 8.77 | 2.48 | -53.21 | 2 | 57.00 | 62.00 | -50.71 | -55.71 | 5 | 54.00 | 68.00 | 14.00 | 10 | -- | -- | -- | -- | -- | -- |
| MW-15I | 11/8/2007 | I | 605010.96 | 1479028.29 | 6.29 | 8.79 | 2.50 | -33.71 | 2 | 35.00 | 45.00 | -28.71 | -38.71 | 10 | 33.00 | 46.50 | 13.50 | 10 | -- | -- | -- | -- | -- | -- |
| MW-15S | 11/8/2007 | S | 605010.96 | 1479028.29 | 6.29 | 8.60 | 2.31 | -8.71 | 2 | 10.00 | 20.00 | -3.71 | -13.71 | 10 | 8.00 | 22.00 | 14.00 | 10 | -- | -- | -- | -- | -- | -- |
| MW-16D | 10/12/2007 | D | 605086.42 | 1479248.84 | 7.81 | 10.22 | 2.41 | -53.19 | 2 | 56.00 | 66.00 | -48.19 | -58.19 | 10 | 53.00 | 68.00 | 15.00 | 10 | -- | -- | -- | -- | -- | -- |
| MW-16I | 10/12/2007 | I | 605086.42 | 1479248.84 | 7.81 | 10.06 | 2.25 | -32.19 | 2 | 35.00 | 45.00 | -27.19 | -37.19 | 10 | 33.00 | 47.00 | 14.00 | 10 | -- | -- | -- | -- | -- | -- |
| MW-16S | 10/12/2007 | S | 605086.42 | 1479248.84 | 7.81 | 10.20 | 2.39 | -7.19 | 2 | 10.00 | 20.00 | -2.19 | -12.19 | 10 | 8.00 | 21.00 | 13.00 | 10 | -- | -- | -- | -- | -- | -- |
| MW-17D | 10/10/2007 | D | 605112.67 | 1479358.32 | 8.03 | 7.56 | -0.47 | -56.97 | 2 | 60.00 | 70.00 | -51.97 | -61.97 | 10 | 58.00 | 71.00 | 13.00 | 10 | -- | -- | -- | -- | -- | -- |
| MW-17I | 10/10/2007 | I | 605112.67 | 1479358.32 | 8.03 | 7.68 | -0.35 | -32.97 | 2 | 36.00 | 46.00 | -27.97 | -37.97 | 10 | 33.00 | 47.00 | 14.00 | 10 | -- | -- | -- | -- | -- | -- |
| MW-17S | 10/10/2007 | S | 605112.67 | 1479358.32 | 8.03 | 7.61 | -0.42 | -5.97 | 2 | 9.00 | 19.00 | -0.97 | -10.97 | 10 | 7.00 | 20.00 | 13.00 | 10 | -- | -- | -- | -- | -- | -- |
| MW-18D | 11/18/2007 | D | 604934.54 | 1479642.31 | 9.17 | 8.88 | -0.29 | -69.83 | 2 | 74.00 | 84.00 | -64.83 | -74.83 | 10 | 71.50 | 84.50 | 13.00 | 10 | -- | -- | -- | -- | -- | -- |
| MW-18I | 10/16/2007 | I | 604930.77 | 1479645.06 | 9.14 | 8.91 | -0.23 | -35.86 | 2 | 40.00 | 50.00 | -30.86 | -40.86 | 10 | 38.00 | 51.00 | 13.00 | 10 | -- | -- | -- | -- | -- | -- |
| MW-18S | 10/16/2007 | S | 604930.77 | 1479645.06 | 9.14 | 8.89 | -0.25 | -10.86 | 2 | 15.00 | 25.00 | -5.86 | -15.86 | 10 | 13.00 | 26.00 | 13.00 | 10 | -- | -- | -- | -- | -- | -- |
| MW-19D | 10/22/2007 | D | 604152.70 | 1479701.18 | 8.45 | 7.94 | -0.51 | -66.55 | 2 | 70.00 | 80.00 | -61.55 | -71.55 | 10 | 68.00 | 82.00 | 14.00 | 10 | -- | -- | -- | -- | -- | -- |
| MW-19I | 10/18/2007 | I | 604152.70 | 1479701.18 | 8.45 | 7.90 | -0.55 | -41.55 | 2 | 45.00 | 55.00 | -36.55 | -46.55 | 10 | 43.00 | 63.00 | 20.00 | 10 | -- | -- | -- | -- | -- | -- |
| MW-2 | 8/12/1994 | I | 604144.32 | 1479708.26 | 8.54 | 8.40 | -0.14 | -28.46 | 4 | 32.00 | 42.00 | -23.46 | -33.46 | 10 | 31.50 | 42.00 | 10.50 | 10 | 5.35 | 3.05 | 6.06 | 2.34 | 6.20 | 2.20 |
| MW-20D | 11/6/2007 | D | 604630.96 | 1479397.95 | 9.91 | 12.40 | 2.49 | -55.09 | 2 | 60.00 | 70.00 | -50.09 | -60.09 | 10 | 58.00 | 71.00 | 13.00 | 10 | -- | -- | -- | -- | -- | -- |
| MW-20I | 11/6/2007 | I | 604630.96 | 1479397.95 | 9.91 | 12.39 | 2.48 | -30.09 | 2 | 35.00 | 45.00 | -25.09 | -35.09 | 10 | 33.00 | 46.00 | 13.00 | 10 | -- | -- | -- | -- | -- | -- |
| MW-20S | 11/6/2007 | S | 604630.96 | 1479397.95 | 9.91 | 12.44 | 2.53 | -5.09 | 2 | 10.00 | 20.00 | -0.09 | -10.09 | 10 | 8.00 | 21.00 | 13.00 | 10 | -- | -- | -- | -- | -- | -- |
| MW-21D | 10/26/2007 | D | 604467.75 | 1479303.22 | 11.31 | 10.78 | -0.53 | -63.69 | 2 | 70.00 | 80.00 | -58.69 | -68.69 | 10 | 68.00 | 83.00 | 15.00 | 10 | -- | -- | -- | -- | -- | -- |
| MW-21I | 10/26/2007 | I | 604467.75 | 1479303.22 | 11.31 | 10.83 | -0.48 | -23.69 | 2 | 30.00 | 40.00 | -18.69 | -28.69 | 10 | 28.00 | 41.00 | 13.00 | 10 | -- | -- | -- | -- | -- | -- |
| MW-22D | 10/30/2007 | D | 604442.07 | 1479112.84 | 11.49 | 11.02 | -0.47 | -63.51 | 2 | 70.00 | 80.00 | -58.51 | -68.51 | 10 | 68.00 | 83.00 | 15.00 | 10 | -- | -- | -- | -- | -- | -- |
| MW-22I | 11/30/2007 | I | 604442.07 | 1479112.84 | 11.49 | 11.01 | -0.48 | -23.51 | 2 | 30.00 | 40.00 | -18.51 | -28.51 | 10 | 27.50 | 42.00 | 14.50 | 10 | -- | -- | -- | -- | -- | -- |
| MW-23D | 11/1/2007 | D | 604237.13 | 1479295.12 | 10.34 | 10.03 | -0.31 | -70.66 | 2 | 76.00 | 86.00 | -65.66 | -75.66 | 10 | 73.00 | 88.00 | 15.00 | 10 | -- | -- | -- | -- | -- | -- |
| MW-23I | 11/1/2007 | I | 604237.13 | 1479295.12 | 10.34 | 10.07 | -0.27 | -34.66 | 2 | 40.00 | 50.00 | -29.66 | -39.66 | 10 | 38.00 | 50.00 | 12.00 | 10 | -- | -- | -- | -- | -- | -- |
| MW-23S | 11/1/2007 | S | 604237.13 | 1479295.12 | 10.34 | 10.01 | -0.33 | -11.66 | 2 | 17.00 | 27.00 | -6.66 | -16.66 | 10 | 15.00 | 30.00 | 15.00 | 10 | -- | -- | -- | -- | -- | -- |
| MW-24I | 11/5/2007 | I | 603945.66 | 1479375.24 | 8.24 | 7.68 | -0.56 | -31.76 | 2 | 35.00 | 45.00 | -26.76 | -36.76 | 10 | 33.00 | 48.00 | 15.00 | 10 | -- | -- | -- | -- | -- | -- |
| MW-24S | 11/5/2007 | S | 603945.66 | 1479375.24 | 8.24 | 7.72 | -0.52 | -11.76 | 2 | 15.00 | 25.00 | -6.76 | -16.76 | 10 | 13.00 | 27.00 | 14.00 | 10 | -- | -- | -- | -- | -- | -- |

| Well ID | Date of Well Installation | Aquifer Level | Northing[1] NAD83 Feet | Easting[1] NAD83 Feet | Elevation[1] Ground NAVD88 Feet | Elevation[1] Top of PVC NAVD88 Feet | Well Casing Stickup/ Stickdown (-) Feet | Elevation[1] Screen Midpoint NAVD88 Feet | Well Casing and Screen Diameter Inches | Depth Top of Screen Below Grade Feet | Depth Bottom of Screen Below Grade Feet | Elevation[1] Top of Screen NAVD88 Feet | Elevation[1] Bottom of Screen NAVD88 Feet | Well Screen Length Feet | Depth Top of Filterpack Below Grade Feet | Depth Bottom of Filterpack Below Grade Feet | Well Filterpack Thickness Feet | Well Borehole Diameter Inches | Depth to Groundwater Top of Well Casing 10/14/2003 Feet | Groundwater Elevation[1] NAVD88 10/14/2003 Feet | Depth to Groundwater Top of Well Casing 12/1/2003 Feet | Groundwater Elevation[1] NAVD88 12/1/2003 Feet | Depth to Groundwater Top of Well Casing 9/30/2004 Feet | Groundwater Elevation[1] NAVD88 9/30/2004 Feet |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-25I | 11/5/2007 | I | 604510.08 | 1478812.44 | 10.11 | 9.72 | -0.39 | -28.89 | 2 | 34.00 | 44.00 | -23.89 | -33.89 | 10 | 32.00 | 48.00 | 16.00 | 10 | -- | -- | -- | -- | -- | -- |
| MW-25S | 11/5/2007 | S | 604510.08 | 1478812.44 | 10.11 | 9.69 | -0.42 | -4.89 | 2 | 10.00 | 20.00 | 0.11 | -9.89 | 10 | 8.00 | 21.00 | 13.00 | 10 | -- | -- | -- | -- | -- | -- |
| MW-26D | 10/25/2007 | D | 604726.41 | 1479035.39 | 12.04 | 11.66 | -0.38 | -50.96 | 2 | 58.00 | 68.00 | -45.96 | -55.96 | 10 | 56.00 | 68.00 | 12.00 | 10 | -- | -- | -- | -- | -- | -- |
| MW-26I | 10/25/2007 | I | 604726.41 | 1479035.39 | 12.04 | 11.67 | -0.37 | -27.96 | 2 | 35.00 | 45.00 | -22.96 | -32.96 | 10 | 33.00 | 48.00 | 15.00 | 10 | -- | -- | -- | -- | -- | -- |
| MW-26S | 10/25/2007 | S | 604726.41 | 1479035.39 | 12.04 | 11.72 | -0.32 | -2.96 | 2 | 10.00 | 20.00 | 2.04 | -7.96 | 10 | 8.00 | 23.00 | 15.00 | 10 | -- | -- | -- | -- | -- | -- |
| MW-27D | 7/10/2008 | DD | 605114.25 | 1479032.00 | 5.47 | 8.39 | 2.92 | -174.53 | 2.5 | 175.00 | 185.00 | -169.53 | -179.53 | 10 | 170.00 | 186.00 | 16.00 | 7 | -- | -- | -- | -- | -- | -- |
| MW-28I | 7/10/2008 | I | 605110.61 | 1479027.89 | 5.69 | 8.65 | 2.96 | -39.64 | 2 | 40.33 | 50.33 | -34.64 | -44.64 | 10 | 36.75 | 50.33 | 13.58 | 7 | -- | -- | -- | -- | -- | -- |
| MW-29D | 7/10/2008 | DD | 603774.77 | 1480488.41 | 11.66 | 11.43 | -0.23 | -143.34 | 2.5 | 150.00 | 160.00 | -138.34 | -148.34 | 10 | 145.92 | 162.00 | 16.08 | 7 | -- | -- | -- | -- | -- | -- |
| MW-3 | 8/12/1994 | S | 604448.84 | 1479107.23 | 11.49 | 11.19 | -0.30 | -13.51 | 4 | 20.00 | 30.00 | -8.51 | -18.51 | 10 | 18.00 | 30.00 | 12.00 | 10 | 7.23 | 3.96 | 7.25 | 3.94 | 8.65 | 2.54 |
| MW-30D | 12/11/2008 | DD | 603825.46 | 1479645.71 | 8.39 | 8.26 | -0.13 | -194.61 | 2.5 | 198.00 | 208.00 | -189.61 | -199.61 | 10 | 195.00 | 211.00 | 16.00 | 7 | -- | -- | -- | -- | -- | -- |
| MW-30I | 6/12/2011 | I | 603824.91 | 1479473.54 | 7.80 | 7.52 | -0.28 | -32.20 | 2.0 | 35.00 | 45.00 | -27.20 | -37.20 | 10 | 33.00 | 45.00 | 12.00 | 6 | -- | -- | -- | -- | -- | -- |
| MW-31D | 12/11/2008 | DD | 603747.78 | 1480099.58 | 7.15 | 6.95 | -0.20 | -187.85 | 2.5 | 190.00 | 200.00 | -182.85 | -192.85 | 10 | 186.00 | 200.00 | 14.00 | 7 | -- | -- | -- | -- | -- | -- |
| MW-32I | 8/23/2009 | I | 603917.70 | 1479926.52 | 7.45 | 7.28 | -0.17 | -52.55 | 2 | 55.00 | 65.00 | -47.55 | -57.55 | 10 | 52.00 | 68.00 | 16.00 | 7 | -- | -- | -- | -- | -- | -- |
| MW-32S | 8/23/2009 | S | 603917.70 | 1479926.52 | 7.45 | 7.27 | -0.18 | -22.55 | 2 | 25.00 | 35.00 | -17.55 | -27.55 | 10 | 22.00 | 38.00 | 16.00 | 7 | -- | -- | -- | -- | -- | -- |
| MW-33I | 8/23/2009 | I | 605115.62 | 1478762.02 | 10.23 | 10.02 | -0.21 | -54.77 | 2 | 60.00 | 70.00 | -49.77 | -59.77 | 10 | 57.00 | 73.00 | 16.00 | 7 | -- | -- | -- | -- | -- | -- |
| MW-33S | 8/23/2009 | S | 605115.62 | 1478762.02 | 9.58 | 9.97 | 0.39 | -29.92 | 2 | 34.50 | 44.50 | -24.92 | -34.92 | 10 | 31.50 | 41.50 | 10.00 | 7 | -- | -- | -- | -- | -- | -- |
| MW-34I | 8/23/2009 | I | 605340.11 | 1478893.75 | 7.51 | 7.37 | -0.14 | -42.49 | 2 | 45.00 | 55.00 | -37.49 | -47.49 | 10 | 42.00 | 58.00 | 16.00 | 7 | -- | -- | -- | -- | -- | -- |
| MW-34S | 8/23/2009 | S | 605340.11 | 1478893.75 | 7.51 | 7.44 | -0.07 | -24.49 | 2 | 27.00 | 37.00 | -19.49 | -29.49 | 10 | 24.00 | 40.00 | 16.00 | 7 | -- | -- | -- | -- | -- | -- |
| MW-35S | 6/7/2011 | S | 605371.56 | 1478645.77 | 12.94 | 12.63 | -0.31 | -16.06 | 2 | 24.00 | 34.00 | -11.06 | -21.06 | 10 | 22.00 | 35.00 | 13.00 | 6 | -- | -- | -- | -- | -- | -- |
| MW-36S | 6/5/2011 | S | 605068.52 | 1478395.88 | 12.11 | 11.88 | -0.23 | -17.89 | 2 | 25.00 | 35.00 | -12.89 | -22.89 | 10 | 23.00 | 37.00 | 14.00 | 6 | -- | -- | -- | -- | -- | -- |
| MW-37S | 6/6/2011 | S | 604275.33 | 1478851.69 | 10.99 | 10.70 | -0.29 | -9.01 | 2 | 15.00 | 25.00 | -4.01 | -14.01 | 10 | 12.00 | 25.00 | 13.00 | 6 | -- | -- | -- | -- | -- | -- |
| MW-38S | 6/13/2011 | S | 604045.94 | 1478555.27 | 11.10 | 10.81 | -0.29 | -4.90 | 2 | 11.00 | 21.00 | 0.10 | -9.90 | 10 | 9.00 | 22.00 | 13.00 | 6 | -- | -- | -- | -- | -- | -- |
| MW-39S | 6/7/2011 | S | 604711.98 | 1479561.57 | 15.99 | 15.70 | -0.29 | -9.01 | 2 | 20.00 | 30.00 | -4.01 | -14.01 | 10 | 18.00 | 31.00 | 13.00 | 6 | -- | -- | -- | -- | -- | -- |
| MW-4 | 1/29/1996 | S | 604852.91 | 1479180.81 | 10.51 | 10.34 | -0.17 | -5.99 | 4 | 3.00 | 30.00 | 7.51 | -19.49 | 27 | 3.00 | 31.00 | 28.00 | 6.25 | 6.62 | 3.72 | 6.10 | 4.24 | 7.85 | 2.49 |
| MW-5 | 1/30/1996 | S | 604294.68 | 1479901.86 | 19.41 | 22.65 | 3.24 | -9.59 | 4 | 19.00 | 39.00 | 0.41 | -19.59 | 20 | 17.00 | 39.00 | 22.00 | 6.25 | 19.99 | 2.66 | 21.10 | 1.55 | 20.96 | 1.69 |
| MW-6 | 1/31/1996 | S | 604009.26 | 1480184.72 | 13.69 | 15.72 | 2.03 | -10.31 | 4 | 14.00 | 34.00 | -0.31 | -20.31 | 20 | 12.00 | 34.00 | 22.00 | 6.25 | 12.92 | 2.80 | 13.46 | 2.26 | 13.70 | 2.02 |
| MW-7 | 8/11/2003 | S | 604765.23 | 1478680.36 | 11.18 | 10.90 | -0.28 | -5.88 | 2 | 12.06 | 22.06 | -0.88 | -10.88 | 10 | 9.00 | 22.06 | 13.06 | 8.25 | 5.78 | 5.12 | 6.86 | 4.04 | 7.36 | 3.54 |
| OW1-I | 10/18/2007 | I | 604638.04 | 1479781.43 | 18.32 | 18.05 | -0.27 | -36.68 | 2 | 50.00 | 60.00 | -31.68 | -41.68 | 10 | 48.00 | 60.00 | 12.00 | 10 | -- | -- | -- | -- | -- | -- |
| OW1-S | 10/22/2007 | S | 604674.88 | 1479817.31 | 19.16 | 19.17 | 0.01 | -5.84 | 2 | 20.00 | 30.00 | -0.84 | -10.84 | 10 | 17.60 | 30.00 | 12.40 | 10 | -- | -- | -- | -- | -- | -- |
| RW1-I | 10/18/2007 | I | 604662.81 | 1479782.43 | 18.67 | 18.44 | -0.23 | -36.33 | 4 | 50.00 | 60.00 | -31.33 | -41.33 | 10 | 47.00 | 60.00 | 13.00 | 8 | -- | -- | -- | -- | -- | -- |
| RW1-S | 10/22/2007 | S | 604677.60 | 1479813.40 | 19.30 | 19.09 | -0.21 | -5.70 | 4 | 20.00 | 30.00 | -0.70 | -10.70 | 10 | 16.00 | 30.00 | 14.00 | 8 | -- | -- | -- | -- | -- | -- |
| TT-11[2] | 8/26/2003 | S | 604264.70 | 1479085.31 | 11.16 | 11.16 | -- | -2.34 | 1.25 | 11.00 | 16.00 | 0.16 | -4.84 | 5 | 8.00 | 16.00 | 8.00 | 6.25 | 6.45 | 4.71 | 5.60 | 5.56 | -- | -- |
| TT-12[2] | 8/26/2003 | S | 604077.47 | 1479083.14 | 11.51 | 11.51 | -- | -1.99 | 1.25 | 11.00 | 16.00 | 0.51 | -4.49 | 5 | 8.00 | 16.00 | 8.00 | 6.25 | 6.39 | 5.12 | 5.79 | 5.72 | -- | -- |
| TT-13[2] | 8/26/2003 | S | 603961.29 | 1479338.80 | 9.55 | 9.55 | -- | -2.95 | 1.25 | 10.00 | 15.00 | -0.45 | -5.45 | 5 | 7.00 | 16.00 | 9.00 | 6.25 | 4.31 | 5.24 | 4.23 | 5.32 | -- | -- |
| TT-14[2] | 8/26/2003 | S | 604062.23 | 1479385.80 | 10.31 | 10.31 | -- | -2.19 | 1.25 | 10.00 | 15.00 | 0.31 | -4.69 | 5 | 7.00 | 16.00 | 9.00 | 6.25 | 4.81 | 5.50 | 3.96 | 6.35 | -- | -- |
| GSP-MW1 | 6/1/2011 | S | 603998.13 | 1478204.72 | 11.38 | 11.13 | -0.25 | 1.38 | 2 | 5 | 15 | 6.38 | -3.62 | 10 | 3 | 17 | 14.00 | 6 | -- | -- | -- | -- | -- | -- |
| GSP-MW2 | 6/1/2011 | S | 604048.11 | 1478149.38 | 11.87 | 11.64 | -0.23 | -14.13 | 2 | 21 | 31 | -9.13 | -19.13 | 10 | 19 | 33 | 14.00 | 6 | -- | -- | -- | -- | -- | -- |
| GSP-MW3 | 6/1/2011 | S | 603920.33 | 1478158.20 | 7.27 | 7.01 | -0.26 | -22.73 | 2 | 25 | 35 | -17.73 | -27.73 | 10 | 23 | 35 | 12.00 | 6 | -- | -- | -- | -- | -- | -- |
| GSP-MW4 | 6/2/2011 | S | 603801.74 | 1478020.42 | 7.49 | 7.27 | -0.22 | -8.01 | 2 | 10.5 | 20.5 | -3.01 | -13.01 | 10 | 8.5 | 21.5 | 13.00 | 6 | -- | -- | -- | -- | -- | -- |
| GSP-MW5 | 6/3/2011 | S | 603313.31 | 1478737.12 | 9.84 | 9.58 | -0.26 | -25.16 | 2 | 30 | 40 | -20.16 | -30.16 | 10 | 28 | 40 | 12.00 | 6 | -- | -- | -- | -- | -- | -- |
| GSP-MW6 | 6/3/2011 | S | 603358.89 | 1478705.09 | 8.62 | 8.36 | -0.26 | -8.88 | 2 | 12.5 | 22.5 | -3.88 | -13.88 | 10 | 10 | 24 | 14.00 | 6 | -- | -- | -- | -- | -- | -- |
| GSP-MW7 | 6/2/2011 | S | 602919.98 | 1479296.33 | 9.00 | 8.74 | -0.26 | -8.00 | 2 | 12 | 22 | -3.00 | -13.00 | 10 | 10 | 23 | 13.00 | 6 | -- | -- | -- | -- | -- | -- |
| GSP-MW8 | 6/2/2011 | S | 603086.90 | 1479055.35 | 9.41 | 9.15 | -0.26 | -2.59 | 2 | 7 | 17 | 2.41 | -7.59 | 10 | 5 | 19 | 14.00 | 6 | -- | -- | -- | -- | -- | -- |
| GSP-MW9 | 9/12/2012 | S | 602854.36 | 1479195.16 | 14.440 | 14.17 | -0.27 | -0.56 | 2 | 10 | 20 | 4.44 | -5.56 | 10 | 8 | 20.6 | 12.60 | 6 | -- | -- | -- | -- | -- | -- |
| GSP-MW10 | 9/13/2012 | S | 602812.27 | 1479357.31 | 9.300 | 9.02 | -0.28 | -7.70 | 2 | 12 | 22 | -2.70 | -12.70 | 10 | 10 | 22.6 | 12.60 | 6 | -- | -- | -- | -- | -- | -- |
| GSP-MW11 | 9/13/2012 | S | 602755.96 | 1479265.71 | 13.930 | 13.64 | -0.29 | 3.93 | 2 | 5 | 15 | 8.93 | -1.07 | 10 | 3 | 15.5 | 12.50 | 6 | -- | -- | -- | -- | -- | -- |
| GSP-MW12 | 9/17/2012 | S | 602597.52 | 1479141.94 | 14.130 | 13.89 | -0.24 | -6.37 | 2 | 13 | 28 | 1.13 | -13.87 | 15 | 11 | 30 | 19.00 | 6 | -- | -- | -- | -- | -- | -- |
| GSP-MW13 | 9/13/2012 | S | 602667.96 | 1479249.83 | 14.000 | 13.7 | -0.30 | -4.00 | 2 | 13 | 23 | 1.00 | -9.00 | 10 | 11 | 23.5 | 12.50 | 6 | -- | -- | -- | -- | -- | -- |
| GSP-MW14 | 9/14/2012 | S | 602642.43 | 1479384.84 | 13.770 | 13.48 | -0.29 | 4.27 | 2 | 7 | 12 | 6.77 | 1.77 | 5 | 5 | 12.5 | 7.50 | 6 | -- | -- | -- | -- | -- | -- |
| GSP-MW15 | 9/17/2012 | S | 602509.32 | 1479259.92 | 14.020 | 13.71 | -0.31 | -0.98 | 2 | 10 | 20 | 4.02 | -5.98 | 10 | 8 | 20.5 | 12.50 | 6 | -- | -- | -- | -- | -- | -- |
| GSP-MW16 | 9/14/2012 | S | 602440.13 | 1479131.27 | 13.420 | 13.13 | -0.29 | -11.58 | 2 | 20 | 30 | -6.58 | -16.58 | 10 | 17 | 30 | 13.00 | 6 | -- | -- | -- | -- | -- | -- |
| GSP-MW17 | 9/17/2012 | S | 603757.02 | 1477996.65 | 8.060 | 7.78 | -0.28 | -14.44 | 2 | 15 | 30 | -6.94 | -21.94 | 15 | 13 | 30 | 17.00 | 6 | -- | -- | -- | -- | -- | -- |
| GSP-MW18 | 9/11/2012 | S | 603791.31 | 1478068.03 | 6.880 | 6.61 | -0.27 | -15.62 | 2 | 15 | 30 | -8.12 | -23.12 | 15 | 13 | 30 | 17.00 | 6 | -- | -- | -- | -- | -- | -- |
| GSP-MW19 | 9/12/2012 | S | 603924.93 | 1478209.90 | 10.150 | 9.85 | -0.30 | -0.85 | 2 | 6 | 16 | 4.15 | -5.85 | 10 | 4 | 16.5 | 12.50 | 6 | -- | -- | -- | -- | -- | -- |
| GSP-MW20 | 9/12/2012 | S | 603984.84 | 1478261.17 | 12.690 | 12.41 | -0.28 | 2.69 | 2 | 5 | 15 | 7.69 | -2.31 | 10 | 3 | 15.5 | 12.50 | 6 | -- | -- | -- | -- | -- | -- |
| MT-MW01S | 5/19/2011 | S | 606556.70 | 1475440.70 | 17.91 | 17.61 | -0.30 | 4.91 | 2 | 8 | 18 | 9.91 | -0.09 | 10 | 6 | 20 | 14.00 | 6 | -- | -- | -- | -- | -- | -- |
| MT-MW02S | 5/20/2011 | S | 606332.96 | 1475383.52 | 18.12 | 17.76 | -0.36 | 4.12 | 2 | 8 | 20 | 10.12 | -1.88 | 12 | 6 | 20 | 14.00 | 6 | -- | -- | -- | -- | -- | -- |
| MT-MW03S | 5/20/2011 | S | 605940.36 | 1475539.97 | 4.15 | 3.68 | -0.47 | -20.85 | 2 | 20 | 30 | -15.85 | -25.85 | 10 | 18 | 32 | 14.00 | 6 | -- | -- | -- | -- | -- | -- |
| MT-MW04S | 5/18/2011 | S | 605222.37 | 1475744.11 | 12.89 | 12.59 | -0.30 | -7.11 | 2 | 15 | 25 | -2.11 | -12.11 | 10 | 13 | 27 | 14.00 | 6 | -- | -- | -- | -- | -- | -- |
| MT-MW05S | 5/19/2011 | S | 605775.36 | 1475990.70 | 12.61 | 12.37 | -0.24 | -7.39 | 2 | 15 | 25 | -2.39 | -12.39 | 10 | 13 | 25 | 12.00 | 6 | -- | -- | -- | -- | -- | -- |
| MT-MW06S | 5/21/2011 | S | 605723.94 | 1475763.23 | 7.27 | 6.79 | -0.48 | -3.73 | 2 | 6 | 16 | 1.27 | -8.73 | 10 | 4 | 18 | 14.00 | 6 | -- | -- | -- | -- | -- | -- |
| MT-MW07S | 7/27/2012 | S | 606343.33 | 1475339.58 | 17.269 | 16.89 | -0.38 | -12.73 | 2 | 25 | 35 | -7.73 | -17.73 | 10 | 23 | 35 | 12.00 | 6 | -- | -- | -- | -- | -- | -- |
| MT-MW08S | 7/28/2012 | S | 606408.00 | 1475339.00 | 18.571 | 18.19 | -0.38 | -11.43 | 2 | 25 | 35 | -6.43 | -16.43 | 10 | 23 | 35 | 12.00 | 6 | -- | -- | -- | -- | -- | -- |
| MT-MW09S | 7/27/2012 | S | 605416.35 | 1476159.23 | 15.672 | 15.33 | -0.34 | -29.33 | 2 | 40 | 50 | -24.33 | -34.33 | 10 | 38 | 50.5 | 12.50 | 6 | -- | -- | -- | -- | -- | -- |
| MT-MW010S | 7/26/2012 | S | 605210.00 | 1475841.00 | 15.350 | 15.1 | -0.25 | -19.65 | 2 | 30 | 40 | -14.65 | -24.65 | 10 | 28 | 40 | 12.00 | 6 | -- | -- | -- | -- | -- | -- |
| MT-MW011S | 7/25/2012 | S | 605506.50 | 1475717.23 | 7.561 | 7.33 | -0.23 | -22.44 | 2 | 25 | 35 | -17.44 | -27.44 | 10 | 23 | 45.5 | 22.50 | 6 | -- | -- | -- | -- | -- | -- |
| MT-MW012S | 7/26/2012 | S | 605593.00 | 1475751.00 | 7.872 | 7.55 | -0.32 | -17.13 | 2 | 15 | 35 | -7.13 | -27.13 | 20 | 13 | 35 | 22.00 | 6 | -- | -- | -- | -- | -- | -- |

**Groundwater Levels and Elevations**
**Lockheed Martin Martin State Airport, Middle River, Maryland**


| Well ID | Date of Well Installation | Aquifer Level | Northing[1] NAD83 Feet | Easting[1] NAD83 Feet | Elevation[1] Ground NAVD88 Feet | Elevation[1] Top of PVC NAVD88 Feet | Depth to Groundwater Top of Well Casing 12/10/2004 Feet | Groundwater Elevation[1] NAVD88 12/10/2004 Feet | Depth to Groundwater Top of Well Casing 6/25/2004 Feet | Groundwater Elevation[1] NAVD88 6/25/2004 Feet | Depth to Groundwater Top of Well Casing 1/14/2008 Feet | Groundwater Elevation[1] NAVD88 1/14/2008 Feet | Depth to Groundwater Top of Well Casing 10/30/2008 Feet | Groundwater Elevation[1] NAVD88 10/30/2008 Feet | Depth to Groundwater Top of Well Casing 9/10/2009 Feet | Groundwater Elevation[1] NAVD88 9/10/2009 Feet | Depth to Groundwater Top of Well Casing 9/18/2009 Feet | Groundwater Elevation[1] NAVD88 9/18/2009 Feet | Depth to Groundwater Top of Well Casing 1/19/2010 Feet | Groundwater Elevation[1] NAVD88 1/19/2010 Feet | Depth to Groundwater Top of Well Casing 7/2/2010 Feet | Groundwater Elevation[1] NAVD88 7/2/2010 Feet | Depth to Groundwater Top of Well Casing 7/14/2011 Feet | Groundwater Elevation[1] NAVD88 7/14/2011 Feet |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DMW-1A | 5/1/2002 | I | 604398.60 | 1479498.32 | 10.37 | 12.05 | 8.75 | 3.30 | 9.35 | 2.70 | 9.70 | 2.35 | 10.30 | 1.75 | 9.92 | 2.13 | -- | -- | 8.70 | 3.35 | 10.45 | 1.60 | 10.07 | 1.98 |
| DMW-1B | 5/1/2002 | D | 604398.60 | 1479498.32 | 10.37 | 12.04 | 9.11 | 2.93 | 9.57 | 2.47 | 9.90 | 2.14 | 10.50 | 1.54 | 10.11 | 1.93 | -- | -- | 9.00 | 3.04 | 10.71 | 1.33 | 10.38 | 1.66 |
| DMW-1S | 7/28/2003 | S | 604458.58 | 1479310.48 | 11.41 | 11.08 | 7.60 | 3.48 | 8.15 | 2.93 | 8.60 | 2.48 | 8.10 | 2.98 | 8.81 | 2.27 | -- | -- | 7.65 | 3.43 | 9.22 | 1.86 | 9.91 | 1.17 |
| DMW-2A | 5/1/2002 | I | 604678.82 | 1479789.39 | 19.58 | 21.65 | 20.20 | 1.45 | 2.75 | 18.90 | 20.50 | 1.15 | 21.15 | 0.50 | 20.54 | 1.11 | -- | -- | 19.95 | 1.70 | 21.25 | 0.40 | 21.02 | 0.63 |
| DMW-2B | 5/1/2002 | D | 604678.82 | 1479789.39 | 19.58 | 21.66 | 19.95 | 1.71 | 20.35 | 1.31 | 20.30 | 1.36 | 21.00 | 0.66 | 20.35 | 1.31 | -- | -- | 19.60 | 2.06 | 21.04 | 0.62 | 20.72 | 0.94 |
| DMW-2S | 7/17/2003 | S | 604670.41 | 1479807.55 | 19.34 | 21.75 | 20.43 | 1.32 | 20.49 | 1.26 | 21.00 | 0.75 | 21.30 | 0.45 | 20.85 | 0.90 | -- | -- | 20.35 | 1.40 | 21.29 | 0.46 | 20.80 | 0.95 |
| DMW-3D | 7/10/2003 | D | 604810.48 | 1479731.13 | 16.47 | 16.46 | 15.25 | 1.21 | 14.95 | 1.51 | 15.15 | 1.31 | 15.90 | 0.56 | 15.26 | 1.20 | -- | -- | 14.65 | 1.81 | 15.96 | 0.50 | 15.53 | 0.93 |
| DMW-3I | 7/11/2003 | I | 604810.48 | 1479731.13 | 16.47 | 16.45 | 15.23 | 1.22 | 14.90 | 1.55 | 15.20 | 1.25 | 15.85 | 0.60 | 15.31 | 1.14 | -- | -- | 14.65 | 1.80 | 15.95 | 0.50 | 15.62 | 0.83 |
| DMW-3S | 7/11/2003 | S | 604804.87 | 1479733.91 | 16.53 | 16.52 | 10.34 | 6.18 | 9.63 | 6.89 | -- | -- | 12.40 | 4.12 | 11.79 | 4.73 | -- | -- | 8.45 | 8.07 | 10.86 | 5.66 | 11.08 | 5.44 |
| DMW-4D | 7/16/2003 | D | 604566.00 | 1480031.48 | 17.52 | 20.44 | 19.45 | 0.99 | 19.50 | 0.94 | 19.40 | 1.04 | 20.20 | 0.24 | 19.32 | 1.12 | -- | -- | 18.80 | 1.64 | 20.06 | 0.38 | 20.25 | 0.19 |
| DMW-4I | 7/16/2003 | I | 604566.00 | 1480031.48 | 17.52 | 20.48 | 19.20 | 1.28 | 19.12 | 1.36 | 19.50 | 0.98 | 20.05 | 0.43 | 19.36 | 1.12 | -- | -- | 18.70 | 1.78 | 20.03 | 0.45 | 20.01 | 0.47 |
| DMW-4S | 7/17/2003 | S | 604563.04 | 1480036.27 | 17.61 | 20.52 | 19.70 | 0.82 | 19.60 | 0.92 | 19.95 | 0.57 | 20.50 | 0.02 | 19.69 | 0.83 | -- | -- | 19.20 | 1.32 | 20.29 | 0.23 | 20.00 | 0.52 |
| DMW-5D | 7/22/2003 | D | 604431.10 | 1480140.63 | 18.66 | 21.38 | 19.80 | 1.58 | 20.20 | 1.18 | 20.40 | 0.98 | 21.10 | 0.28 | 20.38 | 1.00 | -- | -- | 19.70 | 1.68 | 21.00 | 0.38 | 21.13 | 0.25 |
| DMW-5I | 7/22/2003 | I | 604431.10 | 1480140.50 | 18.66 | 21.39 | 19.75 | 1.64 | 20.15 | 1.24 | 20.40 | 0.99 | 21.10 | 0.29 | 20.36 | 1.03 | -- | -- | 19.70 | 1.69 | 21.03 | 0.36 | 21.04 | 0.35 |
| DMW-5S | 7/23/2003 | S | 604430.05 | 1480141.08 | 18.50 | 21.34 | 20.00 | 1.34 | 20.02 | 1.32 | 20.50 | 0.84 | 20.95 | 0.39 | 20.39 | 0.95 | -- | -- | 19.80 | 1.54 | 20.99 | 0.35 | 20.89 | 0.45 |
| DMW-6D | 7/24/2003 | D | 604193.59 | 1480266.19 | 15.61 | 18.51 | 17.15 | 1.36 | 17.70 | 0.81 | 17.60 | 0.91 | 18.30 | 0.21 | 17.52 | 0.99 | -- | -- | 16.80 | 1.71 | 18.21 | 0.30 | 18.26 | 0.25 |
| DMW-6I | 7/24/2003 | I | 604193.59 | 1480266.19 | 15.61 | 18.64 | 17.42 | 1.22 | 17.98 | 0.66 | 17.60 | 1.04 | 18.30 | 0.34 | 17.56 | 1.08 | -- | -- | 16.80 | 1.84 | 18.26 | 0.38 | 18.24 | 0.40 |
| DMW-6S | 7/25/2003 | S | 604190.48 | 1480255.05 | 15.95 | 18.62 | 17.35 | 1.27 | 17.75 | 0.87 | 17.45 | 1.17 | 18.30 | 0.32 | 18.78 | -0.16 | -- | -- | 16.85 | 1.77 | 18.39 | 0.23 | 17.98 | 0.64 |
| DMW-7D | 7/29/2003 | D | 604287.20 | 1479924.19 | 19.22 | 21.94 | 20.24 | 1.70 | 20.35 | 1.59 | 20.60 | 1.34 | 21.20 | 0.74 | 20.57 | 1.37 | -- | -- | 19.70 | 2.24 | 21.23 | 0.71 | 21.00 | 0.94 |
| DMW-7I | 7/29/2003 | I | 604287.20 | 1479924.19 | 19.22 | 21.90 | 20.42 | 1.48 | 20.47 | 1.43 | 20.70 | 1.20 | 21.25 | 0.65 | 20.61 | 1.29 | -- | -- | 19.80 | 2.10 | 21.32 | 0.58 | 21.07 | 0.83 |
| DMW-7S | 7/30/2003 | S | 604291.49 | 1479921.81 | 19.21 | 21.84 | 20.12 | 1.72 | 20.20 | 1.64 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 20.52 | 1.32 |
| DMW-8D | 7/31/2003 | D | 604516.04 | 1479673.57 | 13.62 | 16.35 | 14.60 | 1.75 | 14.36 | 1.99 | 14.80 | 1.55 | 15.35 | 1.00 | 14.79 | 1.56 | -- | -- | 14.00 | 2.35 | 15.46 | 0.89 | 15.17 | 1.18 |
| DMW-8I | 7/31/2003 | I | 604516.04 | 1479673.57 | 13.62 | 16.30 | 14.15 | 2.15 | 14.45 | 1.85 | 14.90 | 1.40 | 15.40 | 0.90 | 14.84 | 1.46 | -- | -- | 14.02 | 2.28 | 15.47 | 0.83 | 14.84 | 1.46 |
| DMW-8S | 7/31/2003 | S | 604516.62 | 1479667.79 | 13.35 | 15.80 | 12.50 | 3.30 | 13.05 | 2.75 | 13.90 | 1.90 | 14.30 | 1.50 | 14.44 | 1.36 | -- | -- | 12.23 | 3.57 | 12.60 | 3.20 | 14.29 | 1.51 |
| DMW-9D | 8/6/2003 | D | 604764.91 | 1479293.42 | 8.71 | 11.41 | 9.00 | 2.41 | 9.37 | 2.04 | 9.51 | 1.90 | 10.15 | 1.26 | 9.68 | 1.73 | -- | -- | 8.65 | 2.76 | 10.29 | 1.12 | 9.93 | 1.48 |
| DMW-9I | 8/6/2003 | I | 604764.91 | 1479293.42 | 8.71 | 11.40 | 8.82 | 2.58 | 9.11 | 2.29 | 9.35 | 2.05 | 9.80 | 1.60 | 9.59 | 1.81 | -- | -- | 8.25 | 3.15 | 9.92 | 1.48 | 9.60 | 1.80 |
| DMW-9S | 8/6/2003 | S | 604771.56 | 1479286.86 | 8.76 | 11.45 | 8.79 | 2.66 | 9.10 | 2.35 | 9.35 | 2.10 | 9.75 | 1.70 | 9.49 | 1.96 | -- | -- | 8.16 | 3.29 | 9.85 | 1.60 | 9.53 | 1.92 |
| MW-1[2] | 8/10/1994 | I | 604052.58 | 1479214.74 | 10.69 | 10.69 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-10I | 8/13/2003 | I | 604630.69 | 1479217.34 | 10.43 | 10.27 | 6.81 | 3.46 | 7.60 | 2.67 | 7.80 | 2.47 | 8.45 | 1.82 | 8.87 | 1.40 | -- | -- | 6.95 | 3.32 | 8.56 | 1.71 | 8.20 | 2.07 |
| MW-10S | 8/27/2003 | S | 604636.82 | 1479225.83 | 10.24 | 10.29 | 6.82 | 3.47 | 7.58 | 2.71 | 7.90 | 2.39 | 8.30 | 1.99 | 8.06 | 2.23 | -- | -- | 6.90 | 3.39 | 8.39 | 1.90 | 7.64 | 2.65 |
| MW-11I | 8/14/2003 | I | 604429.32 | 1478930.78 | 9.38 | 9.15 | 5.20 | 3.95 | 6.20 | 2.95 | 33.20 | -24.05 | 7.15 | 2.00 | 6.78 | 2.37 | -- | -- | 5.40 | 3.75 | 7.29 | -- | 5.02 | 4.13 |
| MW-11S | 8/27/2003 | S | 604424.24 | 1478934.92 | 9.35 | 9.20 | 3.40 | 5.80 | 4.32 | 4.88 | 4.00 | 5.20 | 5.00 | 4.20 | 4.45 | 4.75 | -- | -- | 3.25 | 5.95 | 5.69 | 3.51 | 6.89 | 2.31 |
| MW-14D | 2/23/2007 | DD | 605129.85 | 1479550.68 | 11.95 | 11.56 | -- | -- | -- | -- | 7.60 | 3.96 | 8.25 | 3.31 | 7.71 | 3.85 | -- | -- | 7.00 | 4.56 | 7.97 | 3.59 | -- | -- |
| MW-14I | 2/23/2007 | I | 605129.85 | 1479550.68 | 11.95 | 11.72 | -- | -- | -- | -- | 10.60 | 1.12 | 11.20 | 0.52 | 10.72 | 1.00 | 10.32 | 1.40 | 10.15 | 1.57 | 11.29 | 0.43 | 10.90 | 0.82 |
| MW-15D | 11/7/2007 | D | 605010.96 | 1479028.29 | 6.29 | 8.77 | -- | -- | -- | -- | 6.26 | 2.51 | 7.00 | 1.77 | 6.61 | 2.16 | 5.5 | 3.27 | 5.43 | 3.34 | 7.17 | 1.60 | 6.71 | 2.06 |
| MW-15I | 11/8/2007 | I | 605010.96 | 1479028.29 | 6.29 | 8.79 | -- | -- | -- | -- | 6.30 | 2.49 | 7.02 | 1.77 | 6.63 | 2.16 | 5.55 | 3.24 | 5.43 | 3.36 | 7.19 | 1.60 | 6.74 | 2.05 |
| MW-15S | 11/8/2007 | S | 605010.96 | 1479028.29 | 6.29 | 8.60 | -- | -- | -- | -- | 5.80 | 2.80 | 6.83 | 1.77 | 6.66 | 1.94 | 4.95 | 3.65 | 4.65 | 3.95 | 7.22 | 1.38 | 6.69 | 1.91 |
| MW-16D | 10/12/2007 | D | 605086.42 | 1479248.84 | 7.81 | 10.22 | -- | -- | -- | -- | 7.90 | 2.32 | 8.70 | 1.52 | 8.26 | 1.96 | 7.3 | 2.92 | 7.19 | 3.03 | 9.84 | 0.38 | 8.47 | 1.75 |
| MW-16I | 10/12/2007 | I | 605086.42 | 1479248.84 | 7.81 | 10.06 | -- | -- | -- | -- | 7.80 | 2.26 | 8.50 | 1.56 | 8.11 | 1.95 | 7.1 | 2.96 | 7.01 | 3.05 | 8.66 | 1.40 | 8.30 | 1.76 |
| MW-16S | 10/12/2007 | S | 605086.42 | 1479248.84 | 7.81 | 10.20 | -- | -- | -- | -- | 8.40 | 1.80 | 9.10 | 1.10 | 9.26 | 0.94 | 8.49 | 1.71 | 8.35 | 1.85 | 9.73 | 0.47 | 9.27 | 0.93 |
| MW-17D | 10/10/2007 | D | 605112.67 | 1479358.32 | 8.03 | 7.56 | -- | -- | -- | -- | 18.00 | -10.44 | 10.90 | -3.34 | 5.88 | 1.68 | 4.90 | 2.66 | 4.40 | 3.16 | 5.41 | 2.15 | 5.90 | 1.66 |
| MW-17I | 10/10/2007 | I | 605112.67 | 1479358.32 | 8.03 | 7.68 | -- | -- | -- | -- | 5.60 | 2.08 | 6.30 | 1.38 | 6.12 | 1.56 | 5.65 | 2.03 | 5.22 | 2.46 | 6.51 | 1.17 | 5.23 | 2.45 |
| MW-17S | 10/10/2007 | S | 605112.67 | 1479358.32 | 8.03 | 7.61 | -- | -- | -- | -- | 6.00 | 1.61 | 9.35 | -1.74 | 6.69 | 0.92 | 5.92 | 1.69 | 5.83 | 1.78 | 7.16 | 0.45 | 6.71 | 0.90 |
| MW-18D | 11/18/2007 | D | 604934.54 | 1479642.31 | 9.17 | 8.88 | -- | -- | -- | -- | 7.85 | 1.03 | 8.30 | 0.58 | -- | -- | -- | -- | 7.21 | 1.67 | 8.41 | 0.47 | -- | -- |
| MW-18I | 10/16/2007 | I | 604930.77 | 1479645.06 | 9.14 | 8.91 | -- | -- | -- | -- | 7.80 | 1.11 | 8.50 | 0.41 | 7.86 | 1.05 | -- | -- | 7.21 | 1.70 | 8.62 | 0.29 | -- | -- |
| MW-18S | 10/16/2007 | S | 604930.77 | 1479645.06 | 9.14 | 8.89 | -- | -- | -- | -- | 7.80 | 1.09 | 7.70 | 1.19 | 7.72 | 1.17 | -- | -- | 7.10 | 1.79 | 8.56 | 0.33 | -- | -- |
| MW-19D | 10/22/2007 | D | 604152.70 | 1479701.18 | 8.45 | 7.94 | -- | -- | -- | -- | 6.35 | 1.59 | 7.00 | 0.94 | 6.48 | 1.46 | -- | -- | 5.49 | 2.45 | 7.16 | 0.78 | 6.83 | 1.11 |
| MW-19I | 10/18/2007 | I | 604152.70 | 1479701.18 | 8.45 | 7.90 | -- | -- | -- | -- | 6.80 | 1.10 | 7.05 | 0.85 | 6.48 | 1.42 | -- | -- | 5.50 | 2.40 | 7.17 | 0.73 | 6.84 | 1.06 |
| MW-2 | 8/12/1994 | I | 604144.32 | 1479708.26 | 8.54 | 8.40 | 5.83 | 2.57 | 6.50 | 1.90 | 6.60 | 1.80 | 7.25 | 1.15 | 7.74 | 0.66 | -- | -- | 5.65 | 2.75 | 7.46 | 0.94 | 7.09 | 1.31 |
| MW-20D | 11/6/2007 | D | 604630.96 | 1479397.95 | 9.91 | 12.40 | -- | -- | -- | -- | 10.60 | 1.80 | 11.30 | 1.10 | 10.74 | 1.66 | -- | -- | 9.80 | 2.60 | 11.38 | 1.02 | 11.06 | 1.34 |
| MW-20I | 11/6/2007 | I | 604630.96 | 1479397.95 | 9.91 | 12.39 | -- | -- | -- | -- | 10.40 | 1.99 | 10.75 | 1.64 | 10.42 | 1.97 | -- | -- | 9.20 | 3.19 | 10.82 | 1.57 | 10.53 | 1.86 |
| MW-20S | 11/6/2007 | S | 604630.96 | 1479397.95 | 9.91 | 12.44 | -- | -- | -- | -- | 10.40 | 2.04 | 10.80 | 1.64 | 10.51 | 1.93 | -- | -- | 9.23 | 3.21 | 10.89 | 1.55 | 10.58 | 1.86 |
| MW-21D | 10/26/2007 | D | 604467.75 | 1479303.22 | 11.31 | 10.78 | -- | -- | -- | -- | 8.85 | 1.93 | 9.20 | 1.58 | 9.10 | 1.68 | -- | -- | 8.00 | 2.78 | 9.61 | 1.17 | 8.86 | 1.92 |
| MW-21I | 10/26/2007 | I | 604467.75 | 1479303.22 | 11.31 | 10.83 | -- | -- | -- | -- | 8.60 | 2.23 | 8.90 | 1.93 | 8.75 | 2.08 | -- | -- | 7.60 | 3.23 | 9.21 | 1.62 | 8.79 | 2.04 |
| MW-22D | 10/30/2007 | D | 604442.07 | 1479112.84 | 11.49 | 11.02 | -- | -- | -- | -- | 8.70 | 2.32 | 9.30 | 1.72 | 9.02 | 2.00 | -- | -- | 7.85 | 3.17 | 9.61 | 1.41 | 9.00 | 2.02 |
| MW-22I | 11/30/2007 | I | 604442.07 | 1479112.84 | 11.49 | 11.01 | -- | -- | -- | -- | 9.22 | 1.79 | 9.45 | 1.56 | 8.61 | 2.40 | -- | -- | 7.90 | 3.11 | 9.12 | 1.89 | 8.82 | 2.19 |
| MW-23D | 11/1/2007 | D | 604237.13 | 1479295.12 | 10.34 | 10.03 | -- | -- | -- | -- | 8.70 | 1.33 | 8.62 | 1.41 | 8.16 | 1.87 | -- | -- | 7.10 | 2.93 | 8.82 | 1.21 | 8.42 | 1.61 |
| MW-23I | 11/1/2007 | I | 604237.13 | 1479295.12 | 10.34 | 10.07 | -- | -- | -- | -- | 7.65 | 2.42 | 7.95 | 2.12 | 7.84 | 2.23 | -- | -- | 6.70 | 3.37 | 8.37 | 1.70 | 7.99 | 2.08 |
| MW-23S | 11/1/2007 | S | 604237.13 | 1479295.12 | 10.34 | 10.01 | -- | -- | -- | -- | 7.55 | 2.46 | 7.95 | 2.06 | 7.76 | 2.25 | -- | -- | 6.65 | 3.36 | 8.29 | 1.72 | 7.95 | 2.06 |
| MW-24I | 11/5/2007 | I | 603945.66 | 1479375.24 | 8.24 | 7.68 | -- | -- | -- | -- | 5.20 | 2.48 | 5.80 | 1.88 | 5.42 | 2.26 | -- | -- | 4.30 | 3.38 | 5.96 | 1.72 | 5.52 | 2.16 |
| MW-24S | 11/5/2007 | S | 603945.66 | 1479375.24 | 8.24 | 7.72 | -- | -- | -- | -- | 4.10 | 3.62 | 4.50 | 3.22 | 4.32 | 3.40 | -- | -- | 3.65 | 4.07 | 4.81 | 2.91 | 4.43 | 3.29 |

**Groundwater Levels and Elevations**
**Lockheed Martin Martin State Airport, Middle River, Maryland**


| Well ID | Date of Well Installation | Aquifer Level | Northing[1] NAD83 Feet | Easting[1] NAD83 Feet | Elevation[1] Ground NAVD88 Feet | Elevation[1] Top of PVC NAVD88 Feet | Depth to Groundwater Top of Well Casing 12/10/2004 Feet | Groundwater Elevation[1] NAVD88 12/10/2004 Feet | Depth to Groundwater Top of Well Casing 6/25/2004 Feet | Groundwater Elevation[1] NAVD88 6/25/2004 Feet | Depth to Groundwater Top of Well Casing 1/14/2008 Feet | Groundwater Elevation[1] NAVD88 1/14/2008 Feet | Depth to Groundwater Top of Well Casing 10/30/2008 Feet | Groundwater Elevation[1] NAVD88 10/30/2008 Feet | Depth to Groundwater Top of Well Casing 9/10/2009 Feet | Groundwater Elevation[1] NAVD88 9/10/2009 Feet | Depth to Groundwater Top of Well Casing 9/18/2009 Feet | Groundwater Elevation[1] NAVD88 9/18/2009 Feet | Depth to Groundwater Top of Well Casing 1/19/2010 Feet | Groundwater Elevation[1] NAVD88 1/19/2010 Feet | Depth to Groundwater Top of Well Casing 7/2/2010 Feet | Groundwater Elevation[1] NAVD88 7/2/2010 Feet | Depth to Groundwater Top of Well Casing 7/14/2011 Feet | Groundwater Elevation[1] NAVD88 7/14/2011 Feet |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-25I | 11/5/2007 | I | 604510.08 | 1478812.44 | 10.11 | 9.72 | -- | -- | -- | -- | 6.90 | 2.82 | 7.30 | 2.42 | 7.31 | 2.41 | -- | -- | 5.95 | 3.77 | 7.83 | 1.89 | 7.34 | 2.38 |
| MW-25S | 11/5/2007 | S | 604510.08 | 1478812.44 | 10.11 | 9.69 | -- | -- | -- | -- | 5.03 | 4.66 | 5.66 | 4.03 | 5.32 | 4.37 | -- | -- | 4.80 | 4.89 | 6.23 | 3.46 | 5.82 | 3.87 |
| MW-26D | 10/25/2007 | D | 604726.41 | 1479035.39 | 12.04 | 11.66 | -- | -- | -- | -- | 9.80 | 1.86 | 9.10 | 2.56 | 9.42 | 2.24 | -- | -- | 6.65 | 5.01 | 9.92 | 1.74 | 9.35 | 2.31 |
| MW-26I | 10/25/2007 | I | 604726.41 | 1479035.39 | 12.04 | 11.67 | -- | -- | -- | -- | 9.25 | 2.42 | 9.60 | 2.07 | 9.44 | 2.23 | -- | -- | 8.39 | 3.28 | 9.98 | 1.69 | 9.35 | 2.32 |
| MW-26S | 10/25/2007 | S | 604726.41 | 1479035.39 | 12.04 | 11.72 | -- | -- | -- | -- | 10.05 | 1.67 | 9.55 | 2.17 | 9.41 | 2.31 | -- | -- | 7.75 | 3.97 | 9.47 | 2.25 | 9.29 | 2.43 |
| MW-27D | 7/10/2008 | DD | 605114.25 | 1479032.00 | 5.47 | 8.39 | -- | -- | -- | -- | -- | -- | 6.02 | -- | 5.65 | 2.74 | -- | -- | 4.00 | 4.39 | 5.02 | 3.37 | 3.81 | 4.58 |
| MW-28I | 7/10/2008 | I | 605110.61 | 1479027.89 | 5.69 | 8.65 | -- | -- | -- | -- | -- | -- | 6.81 | -- | 6.57 | 2.08 | 5.45 | 3.20 | 5.40 | 3.25 | 7.18 | 1.47 | 6.71 | 1.94 |
| MW-29D | 7/10/2008 | DD | 603774.77 | 1480488.41 | 11.66 | 11.43 | -- | -- | -- | -- | -- | -- | 12.25 | -- | 11.89 | -0.46 | -- | -- | 10.00 | 1.43 | 11.05 | 0.38 | -- | -- |
| MW-3 | 8/12/1994 | S | 604448.84 | 1479107.23 | 11.49 | 11.19 | 7.40 | 3.79 | 8.27 | 2.92 | 8.65 | 2.54 | 9.00 | 2.19 | 8.79 | 2.40 | -- | -- | 7.70 | 3.49 | 9.21 | 1.98 | 8.88 | 2.31 |
| MW-30D | 12/11/2008 | DD | 603825.46 | 1479645.71 | 8.39 | 8.26 | -- | -- | -- | -- | -- | -- | -- | -- | 8.00 | 0.26 | -- | -- | 6.20 | 2.06 | 7.37 | 0.89 | 5.26 | 3.00 |
| MW-30I | 6/12/2011 | I | 603824.91 | 1479473.54 | 7.80 | 7.52 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5.26 | 2.26 |
| MW-31D | 12/11/2008 | DD | 603747.78 | 1480099.58 | 7.15 | 6.95 | -- | -- | -- | -- | -- | -- | -- | -- | 7.47 | -0.52 | -- | -- | 5.75 | 1.20 | 6.78 | 0.17 | 5.28 | 1.67 |
| MW-32I | 8/23/2009 | I | 603917.70 | 1479926.52 | 7.45 | 7.28 | -- | -- | -- | -- | -- | -- | -- | -- | 5.71 | 1.57 | 4.65 | 2.63 | 4.62 | 2.66 | 6.40 | 0.88 | 6.04 | 1.24 |
| MW-32S | 8/23/2009 | S | 603917.70 | 1479926.52 | 7.45 | 7.27 | -- | -- | -- | -- | -- | -- | -- | -- | 5.62 | 1.65 | 4.52 | 2.75 | 4.50 | 2.77 | 6.31 | 0.96 | 5.94 | 1.33 |
| MW-33I | 8/23/2009 | I | 605115.62 | 1478762.02 | 10.23 | 10.02 | -- | -- | -- | -- | -- | -- | -- | -- | 7.38 | 2.64 | 6.25 | 3.77 | 6.25 | 3.77 | 7.94 | 2.08 | 7.47 | 2.55 |
| MW-33S | 8/23/2009 | S | 605115.62 | 1478762.02 | 9.58 | 9.97 | -- | -- | -- | -- | -- | -- | -- | -- | 7.34 | 2.63 | 6.05 | 3.92 | 6.23 | 3.74 | 7.84 | 2.13 | 7.37 | 2.60 |
| MW-34I | 8/23/2009 | I | 605340.11 | 1478893.75 | 7.51 | 7.37 | -- | -- | -- | -- | -- | -- | -- | -- | 5.15 | 2.22 | -- | -- | 4.00 | 3.37 | 5.72 | 1.65 | 5.21 | 2.16 |
| MW-34S | 8/23/2009 | S | 605340.11 | 1478893.75 | 7.51 | 7.44 | -- | -- | -- | -- | -- | -- | -- | -- | 5.20 | 2.24 | -- | -- | 3.90 | 3.54 | 5.77 | 1.67 | 5.01 | 2.43 |
| MW-35S | 6/7/2011 | S | 605371.56 | 1478645.77 | 12.94 | 12.63 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 9.31 | -- |
| MW-36S | 6/5/2011 | S | 605068.52 | 1478395.88 | 12.11 | 11.88 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 7.83 | -- |
| MW-37S | 6/6/2011 | S | 604275.33 | 1478851.69 | 10.99 | 10.70 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 6.81 | -- |
| MW-38S | 6/13/2011 | S | 604045.94 | 1478555.27 | 11.10 | 10.81 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 7.92 | -- |
| MW-39S | 6/7/2011 | S | 604711.98 | 1479561.57 | 15.99 | 15.70 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 12.58 | -- |
| MW-4 | 1/29/1996 | S | 604852.91 | 1479180.81 | 10.51 | 10.34 | 7.00 | 3.34 | 7.25 | 3.09 | 7.50 | 2.84 | 8.25 | 2.09 | 8.15 | 2.19 | -- | -- | 5.45 | 4.89 | 8.59 | 1.75 | 8.07 | 2.27 |
| MW-5 | 1/30/1996 | S | 604294.68 | 1479901.86 | 19.41 | 22.65 | 21.00 | 1.65 | 21.05 | 1.60 | 21.15 | 1.50 | 21.55 | 1.10 | 21.35 | 1.30 | -- | -- | 20.30 | 2.35 | 21.77 | 0.88 | 21.66 | 0.99 |
| MW-6 | 1/31/1996 | S | 604009.26 | 1480184.72 | 13.69 | 15.72 | 13.75 | 1.97 | 13.97 | 1.75 | 14.30 | 1.42 | 15.00 | 0.72 | 14.46 | 1.26 | -- | -- | 13.15 | 2.57 | 15.14 | 0.58 | 14.73 | 0.99 |
| MW-7 | 8/11/2003 | S | 604765.23 | 1478680.36 | 11.18 | 10.90 | 5.73 | 5.17 | 6.70 | 4.20 | -- | -- | -- | -- | 7.27 | 3.63 | -- | -- | -- | -- | 7.36 | 3.54 | 6.88 | 4.02 |
| OW1-I | 10/18/2007 | I | 604638.04 | 1479781.43 | 18.32 | 18.05 | -- | -- | -- | -- | 17.00 | 1.05 | -- | -- | 17.02 | 1.03 | -- | -- | -- | -- | 17.73 | 0.32 | -- | -- |
| OW1-S | 10/22/2007 | S | 604674.88 | 1479817.31 | 19.16 | 19.17 | -- | -- | -- | -- | 18.50 | 0.67 | -- | -- | -- | -- | -- | -- | -- | -- | 18.57 | 0.60 | -- | -- |
| RW1-I | 10/18/2007 | I | 604662.81 | 1479782.43 | 18.67 | 18.44 | -- | -- | -- | -- | 17.50 | 0.94 | -- | -- | 17.40 | 1.04 | -- | -- | -- | -- | 18.11 | 0.33 | -- | -- |
| RW1-S | 10/22/2007 | S | 604677.60 | 1479813.40 | 19.30 | 19.09 | -- | -- | -- | -- | 18.20 | 0.89 | -- | -- | -- | -- | -- | -- | -- | -- | 18.45 | 0.64 | -- | -- |
| TT-11[2] | 8/26/2003 | S | 604264.70 | 1479085.31 | 11.16 | 11.16 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TT-12[2] | 8/26/2003 | S | 604077.47 | 1479083.14 | 11.51 | 11.51 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TT-13[2] | 8/26/2003 | S | 603961.29 | 1479338.80 | 9.55 | 9.55 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TT-14[2] | 8/26/2003 | S | 604062.23 | 1479385.80 | 10.31 | 10.31 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| GSP-MW1 | 6/1/2011 | S | 603998.13 | 1478204.72 | 11.38 | 11.13 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| GSP-MW2 | 6/1/2011 | S | 604048.11 | 1478149.38 | 11.87 | 11.64 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| GSP-MW3 | 6/1/2011 | S | 603920.33 | 1478158.20 | 7.27 | 7.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| GSP-MW4 | 6/2/2011 | S | 603801.74 | 1478020.42 | 7.49 | 7.27 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| GSP-MW5 | 6/3/2011 | S | 603313.31 | 1478737.12 | 9.84 | 9.58 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| GSP-MW6 | 6/3/2011 | S | 603358.89 | 1478705.09 | 8.62 | 8.36 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| GSP-MW7 | 6/2/2011 | S | 602919.98 | 1479296.33 | 9.00 | 8.74 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| GSP-MW8 | 6/2/2011 | S | 603086.90 | 1479055.35 | 9.41 | 9.15 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| GSP-MW9 | 9/12/2012 | S | 602854.36 | 1479195.16 | 14.440 | 14.17 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| GSP-MW10 | 9/13/2012 | S | 602812.27 | 1479357.31 | 9.300 | 9.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| GSP-MW11 | 9/13/2012 | S | 602755.96 | 1479265.71 | 13.930 | 13.64 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| GSP-MW12 | 9/17/2012 | S | 602597.52 | 1479141.94 | 14.130 | 13.89 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| GSP-MW13 | 9/13/2012 | S | 602667.96 | 1479249.83 | 14.000 | 13.7 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| GSP-MW14 | 9/14/2012 | S | 602642.43 | 1479384.84 | 13.770 | 13.48 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| GSP-MW15 | 9/17/2012 | S | 602509.32 | 1479259.92 | 14.020 | 13.71 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| GSP-MW16 | 9/14/2012 | S | 602440.13 | 1479131.27 | 13.420 | 13.13 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| GSP-MW17 | 9/17/2012 | S | 603757.02 | 1477996.65 | 8.060 | 7.78 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| GSP-MW18 | 9/11/2012 | S | 603791.31 | 1478068.03 | 6.880 | 6.61 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| GSP-MW19 | 9/12/2012 | S | 603924.93 | 1478209.90 | 10.150 | 9.85 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| GSP-MW20 | 9/12/2012 | S | 603984.84 | 1478261.17 | 12.690 | 12.41 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MT-MW01S | 5/19/2011 | S | 606556.70 | 1475440.70 | 17.91 | 17.61 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MT-MW02S | 5/20/2011 | S | 606332.96 | 1475383.52 | 18.12 | 17.76 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MT-MW03S | 5/20/2011 | S | 605940.36 | 1475539.97 | 4.15 | 3.68 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MT-MW04S | 5/18/2011 | S | 605222.37 | 1475744.11 | 12.89 | 12.59 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MT-MW05S | 5/19/2011 | S | 605775.36 | 1475990.70 | 12.61 | 12.37 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MT-MW06S | 5/21/2011 | S | 605723.94 | 1475763.23 | 7.27 | 6.79 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MT-MW07S | 7/27/2012 | S | 606343.33 | 1475339.58 | 17.269 | 16.89 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MT-MW08S | 7/28/2012 | S | 606408.00 | 1475339.00 | 18.571 | 18.19 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MT-MW09S | 7/27/2012 | S | 605416.35 | 1476159.23 | 15.672 | 15.33 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MT-MW010S | 7/26/2012 | S | 605210.00 | 1475841.00 | 15.350 | 15.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MT-MW011S | 7/25/2012 | S | 605506.50 | 1475717.23 | 7.561 | 7.33 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MT-MW012S | 7/26/2012 | S | 605593.00 | 1475751.00 | 7.872 | 7.55 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**Groundwater Levels and Elevations**
**Lockheed Martin Martin State Airport, Middle River, Maryland**


| Well ID | Date of Well Installation | Aquifer Level | Northing[1] NAD83 Feet | Easting[1] NAD83 Feet | Elevation[1] Ground NAVD88 Feet | Elevation[1] Top of PVC NAVD88 Feet | Depth to Groundwater Top of Well Casing 4/16/2012 Feet | Groundwater Elevation[1] NAVD88 4/16/2012 Feet | Depth to Groundwater Top of Well Casing 10/4/2012 Feet | Groundwater Elevation[1] NAVD88 10/4/2012 Feet |
|---|---|---|---|---|---|---|---|---|---|---|
| DMW-1A | 5/1/2002 | I | 604398.60 | 1479498.32 | 10.37 | 12.05 | 9.88 | 2.17 | 10.70 | 1.35 |
| DMW-1B | 5/1/2002 | D | 604398.60 | 1479498.32 | 10.37 | 12.04 | 10.15 | 1.89 | 10.85 | 1.19 |
| DMW-1S | 7/28/2003 | S | 604458.58 | 1479310.48 | 11.41 | 11.08 | 8.68 | 2.40 | 9.62 | 1.46 |
| DMW-2A | 5/1/2002 | I | 604678.82 | 1479789.39 | 19.58 | 21.65 | 20.89 | 0.76 | 21.00 | 0.65 |
| DMW-2B | 5/1/2002 | D | 604678.82 | 1479789.39 | 19.58 | 21.66 | 20.61 | 1.05 | 20.79 | 0.87 |
| DMW-2S | 7/17/2003 | S | 604670.41 | 1479807.55 | 19.34 | 21.75 | 20.93 | 0.82 | 21.28 | 0.47 |
| DMW-3D | 7/10/2003 | D | 604810.48 | 1479731.13 | 16.47 | 16.46 | 15.39 | 1.07 | 12.00 | 4.46 |
| DMW-3I | 7/11/2003 | I | 604810.48 | 1479731.13 | 16.47 | 16.45 | 15.55 | 0.90 | 15.65 | 0.80 |
| DMW-3S | 7/11/2003 | S | 604804.87 | 1479733.91 | 16.53 | 16.52 | 10.10 | 6.42 | 15.56 | 0.96 |
| DMW-4D | 7/16/2003 | D | 604566.00 | 1480031.48 | 17.52 | 20.44 | 19.90 | 0.54 | 19.69 | 0.75 |
| DMW-4I | 7/16/2003 | I | 604566.00 | 1480031.48 | 17.52 | 20.48 | 19.75 | 0.73 | 19.76 | 0.72 |
| DMW-4S | 7/17/2003 | S | 604563.04 | 1480036.27 | 17.61 | 20.52 | 19.95 | 0.57 | 19.99 | 0.53 |
| DMW-5D | 7/22/2003 | D | 604431.10 | 1480140.63 | 18.66 | 21.38 | 20.85 | 0.53 | 20.74 | 0.64 |
| DMW-5I | 7/22/2003 | I | 604431.10 | 1480140.50 | 18.66 | 21.39 | 20.80 | 0.59 | 20.76 | 0.63 |
| DMW-5S | 7/23/2003 | S | 604430.05 | 1480141.08 | 18.50 | 21.34 | 20.75 | 0.59 | 20.75 | 0.59 |
| DMW-6D | 7/24/2003 | D | 604193.59 | 1480266.19 | 15.61 | 18.51 | 18.02 | 0.49 | 17.98 | 0.53 |
| DMW-6I | 7/24/2003 | I | 604193.59 | 1480266.19 | 15.61 | 18.64 | 18.03 | 0.61 | 18.01 | 0.63 |
| DMW-6S | 7/25/2003 | S | 604190.48 | 1480255.05 | 15.95 | 18.62 | 18.00 | 0.62 | 18.18 | 0.44 |
| DMW-7D | 7/29/2003 | D | 604287.20 | 1479924.19 | 19.22 | 21.94 | 20.90 | 1.04 | 21.09 | 0.85 |
| DMW-7I | 7/29/2003 | I | 604287.20 | 1479924.19 | 19.22 | 21.90 | 20.95 | 0.95 | 21.12 | 0.78 |
| DMW-7S | 7/30/2003 | S | 604291.49 | 1479921.81 | 19.21 | 21.84 | 20.90 | 0.94 | 20.92 | 0.92 |
| DMW-8D | 7/31/2003 | D | 604516.04 | 1479673.57 | 13.62 | 16.35 | 15.03 | 1.32 | 15.31 | 1.04 |
| DMW-8I | 7/31/2003 | I | 604516.04 | 1479673.57 | 13.62 | 16.30 | 15.03 | 1.27 | 15.35 | 0.95 |
| DMW-8S | 7/31/2003 | S | 604516.62 | 1479667.79 | 13.35 | 15.80 | 14.02 | 1.78 | 14.98 | 0.82 |
| DMW-9D | 8/6/2003 | D | 604764.91 | 1479293.42 | 8.71 | 11.41 | 9.69 | 1.72 | 10.30 | 1.11 |
| DMW-9I | 8/6/2003 | I | 604764.91 | 1479293.42 | 8.71 | 11.40 | 9.42 | 1.98 | 10.23 | 1.17 |
| DMW-9S | 8/6/2003 | S | 604771.56 | 1479286.86 | 8.76 | 11.45 | 9.32 | 2.13 | 10.23 | 1.22 |
| MW-1[2] | 8/10/1994 | I | 604052.58 | 1479214.74 | 10.69 | 10.69 | -- | -- | | -- |
| MW-10I | 8/13/2003 | I | 604630.69 | 1479217.34 | 10.43 | 10.27 | 7.99 | 2.28 | 8.80 | 1.47 |
| MW-10S | 8/27/2003 | S | 604636.82 | 1479225.83 | 10.24 | 10.29 | 7.68 | 2.61 | 8.73 | 1.56 |
| MW-11I | 8/14/2003 | I | 604429.32 | 1478930.78 | 9.38 | 9.15 | 6.43 | 2.72 | 7.58 | 1.57 |
| MW-11S | 8/27/2003 | S | 604424.24 | 1478934.92 | 9.35 | 9.20 | 4.97 | 4.23 | 6.20 | 3.00 |
| MW-14D | 2/23/2007 | DD | 605129.85 | 1479550.68 | 11.95 | 11.56 | 7.09 | 4.47 | 10.80 | 0.76 |
| MW-14I | 2/23/2007 | I | 605129.85 | 1479550.68 | 11.95 | 11.72 | 10.99 | 0.73 | 11.08 | 0.64 |
| MW-15D | 11/7/2007 | D | 605010.96 | 1479028.29 | 6.29 | 8.77 | 6.38 | 2.39 | 7.33 | 1.44 |
| MW-15I | 11/8/2007 | I | 605010.96 | 1479028.29 | 6.29 | 8.79 | 6.55 | 2.24 | 7.38 | 1.41 |
| MW-15S | 11/8/2007 | S | 605010.96 | 1479028.29 | 6.29 | 8.60 | 6.05 | 2.55 | 7.60 | 1.00 |
| MW-16D | 10/12/2007 | D | 605086.42 | 1479248.84 | 7.81 | 10.22 | 8.15 | 2.07 | 8.95 | 1.27 |
| MW-16I | 10/12/2007 | I | 605086.42 | 1479248.84 | 7.81 | 10.06 | 8.00 | 2.06 | 8.74 | 1.32 |
| MW-16S | 10/12/2007 | S | 605086.42 | 1479248.84 | 7.81 | 10.20 | 9.00 | 1.20 | 9.42 | 0.78 |
| MW-17D | 10/10/2007 | D | 605112.67 | 1479358.32 | 8.03 | 7.56 | 5.55 | 2.01 | 5.51 | 2.05 |
| MW-17I | 10/10/2007 | I | 605112.67 | 1479358.32 | 8.03 | 7.68 | 5.40 | 2.28 | 6.18 | 1.50 |
| MW-17S | 10/10/2007 | S | 605112.67 | 1479358.32 | 8.03 | 7.61 | 6.45 | 1.16 | 6.92 | 0.69 |
| MW-18D | 11/18/2007 | D | 604934.54 | 1479642.31 | 9.17 | 8.88 | 8.05 | 0.83 | 11.20 | -2.32 |
| MW-18I | 10/16/2007 | I | 604930.77 | 1479645.06 | 9.14 | 8.91 | 8.21 | 0.70 | 8.30 | 0.61 |
| MW-18S | 10/16/2007 | S | 604930.77 | 1479645.06 | 9.14 | 8.89 | 7.94 | 0.95 | 8.22 | 0.67 |
| MW-19D | 10/22/2007 | D | 604152.70 | 1479701.18 | 8.45 | 7.94 | 6.53 | 1.41 | 7.03 | 0.91 |
| MW-19I | 10/18/2007 | I | 604152.70 | 1479701.18 | 8.45 | 7.90 | 6.63 | 1.27 | 7.10 | 0.80 |
| MW-2 | 8/12/1994 | I | 604144.32 | 1479708.26 | 8.54 | 8.40 | 6.87 | 1.53 | 7.43 | 0.97 |
| MW-20D | 11/6/2007 | D | 604630.96 | 1479397.95 | 9.91 | 12.40 | 10.82 | 1.58 | 11.40 | 1.00 |
| MW-20I | 11/6/2007 | I | 604630.96 | 1479397.95 | 9.91 | 12.39 | 10.34 | 2.05 | 11.20 | 1.19 |
| MW-20S | 11/6/2007 | S | 604630.96 | 1479397.95 | 9.91 | 12.44 | 10.35 | 2.09 | 11.25 | 1.19 |
| MW-21D | 10/26/2007 | D | 604467.75 | 1479303.22 | 11.31 | 10.78 | 8.89 | 1.89 | 9.65 | 1.13 |
| MW-21I | 10/26/2007 | I | 604467.75 | 1479303.22 | 11.31 | 10.83 | 8.68 | 2.15 | 9.55 | 1.28 |
| MW-22D | 10/30/2007 | D | 604442.07 | 1479112.84 | 11.49 | 11.02 | 8.90 | 2.12 | 9.68 | 1.34 |
| MW-22I | 11/30/2007 | I | 604442.07 | 1479112.84 | 11.49 | 11.01 | 8.75 | 2.26 | 9.49 | 1.52 |
| MW-23D | 11/1/2007 | D | 604237.13 | 1479295.12 | 10.34 | 10.03 | 8.21 | 1.82 | 8.63 | 1.40 |
| MW-23I | 11/1/2007 | I | 604237.13 | 1479295.12 | 10.34 | 10.07 | 7.80 | 2.27 | 8.63 | 1.44 |
| MW-23S | 11/1/2007 | S | 604237.13 | 1479295.12 | 10.34 | 10.01 | 7.60 | 2.41 | 8.89 | 1.12 |
| MW-24I | 11/5/2007 | I | 603945.66 | 1479375.24 | 8.24 | 7.68 | 5.40 | 2.28 | 6.21 | 1.47 |
| MW-24S | 11/5/2007 | S | 603945.66 | 1479375.24 | 8.24 | 7.72 | 4.17 | 3.55 | 4.79 | 2.93 |

| Well ID | Date of Well Installation | Aquifer Level | Northing[1] NAD83 Feet | Easting[1] NAD83 Feet | Elevation[1] Ground NAVD88 Feet | Elevation[1] Top of PVC NAVD88 Feet | Depth to Groundwater Top of Well Casing 4/16/2012 Feet | Groundwater Elevation[1] NAVD88 4/16/2012 Feet | Depth to Groundwater Top of Well Casing 10/4/2012 Feet | Groundwater Elevation[1] NAVD88 10/4/2012 Feet |
|---|---|---|---|---|---|---|---|---|---|---|
| MW-25I | 11/5/2007 | I | 604510.08 | 1478812.44 | 10.11 | 9.72 | 6.97 | 2.75 | 8.10 | 1.62 |
| MW-25S | 11/5/2007 | S | 604510.08 | 1478812.44 | 10.11 | 9.69 | 5.75 | 3.94 | 6.74 | 2.95 |
| MW-26D | 10/25/2007 | D | 604726.41 | 1479035.39 | 12.04 | 11.66 | 9.00 | 2.66 | 10.11 | 1.55 |
| MW-26I | 10/25/2007 | I | 604726.41 | 1479035.39 | 12.04 | 11.67 | 8.97 | 2.70 | 10.17 | 1.50 |
| MW-26S | 10/25/2007 | S | 604726.41 | 1479035.39 | 12.04 | 11.72 | 8.92 | 2.80 | 10.00 | 1.72 |
| MW-27D | 7/10/2008 | DD | 605114.25 | 1479032.00 | 5.47 | 8.39 | 2.42 | 5.97 | 3.16 | 5.23 |
| MW-28I | 7/10/2008 | I | 605110.61 | 1479027.89 | 5.69 | 8.65 | 6.35 | 2.30 | 7.30 | 1.35 |
| MW-29D | 7/10/2008 | DD | 603774.77 | 1480488.41 | 11.66 | 11.43 | 8.10 | 3.33 | 12.30 | -0.87 |
| MW-3 | 8/12/1994 | S | 604448.84 | 1479107.23 | 11.49 | 11.19 | 8.70 | 2.49 | 9.68 | 1.51 |
| MW-30D | 12/11/2008 | DD | 603825.46 | 1479645.71 | 8.39 | 8.26 | 4.27 | 3.99 | 4.95 | 3.31 |
| MW-30I | 6/12/2011 | I | 603824.91 | 1479473.54 | 7.80 | 7.52 | -- | -- | | -- |
| MW-31D | 12/11/2008 | DD | 603747.78 | 1480099.58 | 7.15 | 6.95 | 3.55 | 3.40 | 4.20 | 2.75 |
| MW-32I | 8/23/2009 | I | 603917.70 | 1479926.52 | 7.45 | 7.28 | 5.65 | 1.63 | 6.32 | 0.96 |
| MW-32S | 8/23/2009 | S | 603917.70 | 1479926.52 | 7.45 | 7.27 | 5.74 | 1.53 | 6.30 | 0.97 |
| MW-33I | 8/23/2009 | I | 605115.62 | 1478762.02 | 10.23 | 10.02 | 7.11 | 2.91 | 8.05 | 1.97 |
| MW-33S | 8/23/2009 | S | 605115.62 | 1478762.02 | 9.58 | 9.97 | 7.05 | 2.92 | 8.06 | 1.91 |
| MW-34I | 8/23/2009 | I | 605340.11 | 1478893.75 | 7.51 | 7.37 | 4.81 | 2.56 | 5.20 | 2.17 |
| MW-34S | 8/23/2009 | S | 605340.11 | 1478893.75 | 7.51 | 7.44 | 4.51 | 2.93 | 5.92 | 1.52 |
| MW-35S | 6/7/2011 | S | 605371.56 | 1478645.77 | 12.94 | 12.63 | 9.25 | 3.38 | 10.05 | 2.58 |
| MW-36S | 6/5/2011 | S | 605068.52 | 1478395.88 | 12.11 | 11.88 | 7.45 | 4.43 | 8.90 | 2.98 |
| MW-37S | 6/6/2011 | S | 604275.33 | 1478851.69 | 10.99 | 10.70 | 6.83 | 3.87 | 7.55 | 3.15 |
| MW-38S | 6/13/2011 | S | 604045.94 | 1478555.27 | 11.10 | 10.81 | -- | -- | | -- |
| MW-39S | 6/7/2011 | S | 604711.98 | 1479561.57 | 15.99 | 15.70 | 12.30 | 3.40 | 13.75 | 1.95 |
| MW-4 | 1/29/1996 | S | 604852.91 | 1479180.81 | 10.51 | 10.34 | 7.74 | 2.60 | 9.06 | 1.28 |
| MW-5 | 1/30/1996 | S | 604294.68 | 1479901.86 | 19.41 | 22.65 | 21.35 | 1.30 | 21.88 | 0.77 |
| MW-6 | 1/31/1996 | S | 604009.26 | 1480184.72 | 13.69 | 15.72 | 14.50 | 1.22 | 14.89 | 0.83 |
| MW-7 | 8/11/2003 | S | 604765.23 | 1478680.36 | 11.18 | 10.90 | 6.80 | 4.10 | 8.78 | 2.12 |
| OW1-I | 10/18/2007 | I | 604638.04 | 1479781.43 | 18.32 | 18.05 | -- | -- | | -- |
| OW1-S | 10/22/2007 | S | 604674.88 | 1479817.31 | 19.16 | 19.17 | -- | -- | | -- |
| RW1-I | 10/18/2007 | I | 604662.81 | 1479782.43 | 18.67 | 18.44 | -- | -- | | -- |
| RW1-S | 10/22/2007 | S | 604677.60 | 1479813.40 | 19.30 | 19.09 | -- | -- | | -- |
| TT-11[2] | 8/26/2003 | S | 604264.70 | 1479085.31 | 11.16 | 11.16 | -- | -- | | -- |
| TT-12[2] | 8/26/2003 | S | 604077.47 | 1479083.14 | 11.51 | 11.51 | -- | -- | | -- |
| TT-13[2] | 8/26/2003 | S | 603961.29 | 1479338.80 | 9.55 | 9.55 | -- | -- | | -- |
| TT-14[2] | 8/26/2003 | S | 604062.23 | 1479385.80 | 10.31 | 10.31 | -- | -- | | -- |
| | | | | | | | | | | |
| GSP-MW1 | 6/1/2011 | S | 603998.13 | 1478204.72 | 11.38 | 11.13 | 6.00 | 5.13 | 7.7 | 3.43 |
| GSP-MW2 | 6/1/2011 | S | 604048.11 | 1478149.38 | 11.87 | 11.64 | 6.91 | 4.73 | -- | -- |
| GSP-MW3 | 6/1/2011 | S | 603920.33 | 1478158.20 | 7.27 | 7.01 | 3.75 | 3.26 | 5 | 2.01 |
| GSP-MW4 | 6/2/2011 | S | 603801.74 | 1478020.42 | 7.49 | 7.27 | 3.40 | 3.87 | 4.45 | 2.82 |
| GSP-MW5 | 6/3/2011 | S | 603313.31 | 1478737.12 | 9.84 | 9.58 | 3.60 | 5.98 | 6.99 | 2.59 |
| GSP-MW6 | 6/3/2011 | S | 603358.89 | 1478705.09 | 8.62 | 8.36 | 5.20 | 3.16 | 8.3 | 0.06 |
| GSP-MW7 | 6/2/2011 | S | 602919.98 | 1479296.33 | 9.00 | 8.74 | 3.55 | 5.19 | 5.76 | 2.98 |
| GSP-MW8 | 6/2/2011 | S | 603086.90 | 1479055.35 | 9.41 | 9.15 | 4.22 | 4.93 | 6.2 | 2.95 |
| GSP-MW9 | 9/12/2012 | S | 602854.36 | 1479195.16 | 14.440 | 14.17 | -- | -- | 9.89 | 4.28 |
| GSP-MW10 | 9/13/2012 | S | 602812.27 | 1479357.31 | 9.300 | 9.02 | -- | -- | 4.46 | 4.56 |
| GSP-MW11 | 9/13/2012 | S | 602755.96 | 1479265.71 | 13.930 | 13.64 | -- | -- | 6.63 | 7.01 |
| GSP-MW12 | 9/17/2012 | S | 602597.52 | 1479141.94 | 14.130 | 13.89 | -- | -- | 7.95 | 5.94 |
| GSP-MW13 | 9/13/2012 | S | 602667.96 | 1479249.83 | 14.000 | 13.7 | -- | -- | 6 | 7.70 |
| GSP-MW14 | 9/14/2012 | S | 602642.43 | 1479384.84 | 13.770 | 13.48 | -- | -- | 5.3 | 8.18 |
| GSP-MW15 | 9/17/2012 | S | 602509.32 | 1479259.92 | 14.020 | 13.71 | -- | -- | 7.35 | 6.36 |
| GSP-MW16 | 9/14/2012 | S | 602440.13 | 1479131.27 | 13.420 | 13.13 | -- | -- | 8.05 | 5.08 |
| GSP-MW17 | 9/17/2012 | S | 603757.02 | 1477996.65 | 8.060 | 7.78 | -- | -- | 7.5 | 0.28 |
| GSP-MW18 | 9/11/2012 | S | 603791.31 | 1478068.03 | 6.880 | 6.61 | -- | -- | 13.3 | -6.69 |
| GSP-MW19 | 9/12/2012 | S | 603924.93 | 1478209.90 | 10.150 | 9.85 | -- | -- | 9.55 | 0.30 |
| GSP-MW20 | 9/12/2012 | S | 603984.84 | 1478261.17 | 12.690 | 12.41 | -- | -- | 10 | 2.41 |
| | | | | | | | | | | |
| MT-MW01S | 5/19/2011 | S | 606556.70 | 1475440.70 | 17.91 | 17.61 | 4.77 | 12.84 | 5.45 | 12.16 |
| MT-MW02S | 5/20/2011 | S | 606332.96 | 1475383.52 | 18.12 | 17.76 | 9.87 | 7.89 | 14.19 | 3.57 |
| MT-MW03S | 5/20/2011 | S | 605940.36 | 1475539.97 | 4.15 | 3.68 | 0.00 | 3.68 | 0 | 3.68 |
| MT-MW04S | 5/18/2011 | S | 605222.37 | 1475744.11 | 12.89 | 12.59 | 5.74 | 6.85 | 8.99 | 3.60 |
| MT-MW05S | 5/19/2011 | S | 605775.36 | 1475990.70 | 12.61 | 12.37 | 4.40 | 7.97 | 5.32 | 7.05 |
| MT-MW06S | 5/21/2011 | S | 605723.94 | 1475763.23 | 7.27 | 6.79 | 1.70 | 5.09 | 2.19 | 4.60 |
| MT-MW07S | 7/27/2012 | S | 606343.33 | 1475339.58 | 17.269 | 16.89 | -- | -- | 9.79 | 7.10 |
| MT-MW08S | 7/28/2012 | S | 606408.00 | 1475339.00 | 18.571 | 18.19 | -- | -- | 10.75 | 7.44 |
| MT-MW09S | 7/27/2012 | S | 605416.35 | 1476159.23 | 15.672 | 15.33 | -- | -- | 9.49 | 5.84 |
| MT-MW010S | 7/26/2012 | S | 605210.00 | 1475841.00 | 15.350 | 15.1 | -- | -- | 12.05 | 3.05 |
| MT-MW011S | 7/25/2012 | S | 605506.50 | 1475717.23 | 7.561 | 7.33 | -- | -- | -- | -- |
| MT-MW012S | 7/26/2012 | S | 605593.00 | 1475751.00 | 7.872 | 7.55 | -- | -- | 3.98 | 3.57 |

1 Based on an October 2010 survey of all Dump Road Area wells

2 Well has been sealed and abandoned in accordance with state regulations and is no longer in

"--" - Not available or not measured

S - Upper surficial aquifer

I - Intermediate surficial aquifer

D - Lower surficial aquifer

DD - Deep confined aquifer or below the lower surficial aquifer

NAVD88 = North American Vertical Datum of 1988.

NAD83 - North American Datum of 1983

# APPENDIX D—
# PURGE LOGS AND GROUNDWATER-SAMPLE RECORD SHEETS

Tetra Tech NUS, Inc

# GROUNDWATER SAMPLE LOG SHEET



Project Site Name: Martin State Airport
Project No.: 112EC04021-02

[] Domestic Well Data
[] Monitoring Well Data
[] Other Well Type
[] QA Sample Type:

Sample ID No.: MT-MW01S-042512
Sample Location: MW01S
Sampled By: Walt P
C.O.C. No.:
Type of Sample:
[] Low Concentration
[] High Concentration

**SAMPLING DATA:**

| Date: 4-25-12 | Color (Visual) | pH (S.U.) | S.C. (mS/cm) | Temp. (°C) | Turbidity (NTU) | DO (mg/l) | Salinity (%) | Other |
|---|---|---|---|---|---|---|---|---|
| Time: 1335 | | | | | | | | |
| Method: Peristaltic pump | Clear | 6.18 | 0.499 | 17.11 | 1.1 | 1.02 | 0.2 | 6 |

**PURGE DATA:**

| Date: 4-25-12 | Volume | pH | S.C. | Temp. | Turbidity | DO | Salinity | Other |
|---|---|---|---|---|---|---|---|---|
| Method: Peristaltic pump | | | | | | | | |
| Monitor Reading (ppm): 0.0 | | | | | | | | |
| Well Casing Diameter & Material Type: 2" PVC | | See Low Flow Purge Data Sheet | | | | | | |
| Total Well Depth (TD): | | | | | | | | |
| Static Water Level (WL): 4.35 | | | | | | | | |
| One Casing Volume(gal/L): | | | | | | | | |
| Start Purge (hrs): 1244 | | | | | | | | |
| End Purge (hrs): 1330 | | | | | | | | |
| Total Purge Time (min): 46 | | | | | | | | |
| Total Vol. Purged (gal/L): 1.0 | | | | | | | | |

**SAMPLE COLLECTION INFORMATION:**

| Analysis | Preservative | Container Requirements | Collected |
|---|---|---|---|
| VOCs | HCl | 3 - 40 ml VOA | ✓ |
| Total ARM | HNO3 | 1 - 500 ml Poly | ✓ |
| Diss ARM | HNO3 | 1 - 500 ml Poly | ✓ |
| 1,4 Dioxane | — | 2 - 1L Ambers | ✓ |
| DRO | — | 2 - 1L Ambers | ✓ |
| GRO | HCl | 2 - 40 ml VOA | ✓ |
| Perchlorate | — | 1 - 250 ml Poly | ✓ |
| Hex Chrom | — | 1 - 250 ml Poly | ✓ |
| | | | |
| | | | |

**OBSERVATIONS / NOTES:**

Circle if Applicable:
MS/MSD — Duplicate ID No.:

Signature(s):

# LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: Martin State Airport
PROJECT NUMBER: 112fc04021-62
WELL ID.: MT-MW01S-0425-12
DATE: 4-25-12

| Time (Hrs.) | Water Level (Ft. below TOC) | Flow (mL/Min.) | pH (S.U.) | S. Cond. (mS/cm) | Turb. (NTU) | DO (mg/L) | Temp. (Celcius) | ORP mV | Salinity % or ppt | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| 1244 | 4.35 | — | — | — | — | — | — | — | — | Initial, no odor |
| 1245 | 5.00 | 300 | 6.03 | 0.499 | 23.0 | 3.33 | 16.43 | 154 | 0.2 | Slightly cloudy |
| 1250 | 5.95 | 100 | 6.26 | 0.463 | 6.7 | 1.71 | 16.52 | 52 | 0.2 | Clean water |
| 1255 | 6.70 | 100 | 6.31 | 0.455 | 3.1 | 1.55 | 16.75 | 29 | 0.2 | |
| 1305 | 8.05 | 100 | 6.33 | 0.499 | 1.6 | 1.22 | 17.15 | 9 | 0.2 | |
| 1315 | 8.50 | 100 | 6.26 | 0.450 | 0.5 | 1.17 | 17.01 | 7 | 0.2 | |
| 1320 | 8.70 | 100 | 6.22 | 0.499 | 1.0 | 1.04 | 17.13 | 6 | 0.2 | |
| 1325 | 8.75 | 100 | 6.19 | 0.499 | 1.0 | 1.02 | 17.26 | 7 | 0.2 | |
| 1330 | 8.80 | 100 | 6.18 | 0.499 | 1.1 | 1.02 | 17.11 | 6 | 0.2 | |
| | | | Well Parameters Stabilized | | | | | | | |
| | | | Sampling Begins | | | | | | | |

SIGNATURE(S): [signature]

Tetra Tech NUS, Inc.

# GROUNDWATER SAMPLE LOG SHEET



Project Site Name: Manton State Airport
Project No.: 112IC04021-02

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: MT-MW02S-042312
Sample Location: MW02S
Sampled By: Walt P
C.O.C. No.:
Type of Sample:
[] Low Concentration
[] High Concentration

**SAMPLING DATA:**

| Date: / Time: / Method: Peristaltic pump | Color (Visual) | pH (S.U.) | S.C. (mS/cm) | Temp. (°C) | Turbidity (NTU) | DO (mg/l) | Salinity (%) | Other |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

**PURGE DATA:**

| | Volume | pH | S.C. | Temp. | Turbidity | DO | Salinity | Other |
|---|---|---|---|---|---|---|---|---|
| Date: 4-23-12 | | | | | | | | |
| Method: Peristaltic pump | | | | | | | | |
| Monitor Reading (ppm): 0.0 | | | | | | | | |
| Well Casing Diameter & Material Type: 2" PVC | | | | | | | | |
| Total Well Depth (TD): | | See low flow purge | | | | | | |
| Static Water Level (WL): 9.45 | | | | | | | | |
| One Casing Volume(gal/L): | | | Data Sheet | | | | | |
| Start Purge (hrs): 1305 | | | | | | | | |
| End Purge (hrs): 1436 | | | | | | | | |
| Total Time (min): 91 | | | | | | | | |
| Total Vol. Purged (gal/L): 2.0 | | | | | | | | |

**SAMPLE COLLECTION INFORMATION:**

| Analysis | Preservative | Container Requirements | Collected |
|---|---|---|---|
| VOCs | HCl | 3 - 40 ml VOA | |
| Total PPM | HNO3 | 1 - 500 ml Poly | |
| Diss PPM | HNO3 | 1 - 500 ml Poly | |
| 1,4 Dioxane | — | 2 - 1L Ambers | |
| Perchlorate | — | 1 - 250 ml Poly | |
| Hex Chrom | — | 1 - 250 ml Poly | |
| Geo | HCl | 2 - 40 ml VOA | |
| DRO | — | 2 - 1L Ambers | |
| | | | |
| | | | |

**OBSERVATIONS / NOTES:**

| Circle if Applicable: | | Signature(s): |
|---|---|---|
| MS/MSD | Duplicate ID No.: | Walt P |

Tetra Tech NUS, Inc.

# GROUNDWATER SAMPLE LOG SHEET



Project Site Name: MSA GW Sampling
Project No.: 112IC0401

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: MT-MW02s
Sample Location: MT-MW02s
Sampled By: SBC
C.O.C. No.:
Type of Sample:
[] Low Concentration
[] High Concentration

**SAMPLING DATA:**

| Date: 4/30/12 | Color Visual | pH Standard | S.C. mS/cm | Temp. °C | Turbidity NTU | DO mg/l | ORP mV | Sal % |
|---|---|---|---|---|---|---|---|---|
| Time: 1305 | | | | | | | | |
| Method: Peri Pump | | | | | | | | |

**PURGE DATA:**

| Date: | Volume | pH | S.C. | Temp. (C) | Turbidity | DO | Salinity | TDS |
|---|---|---|---|---|---|---|---|---|
| Method: | | | | | | | | |
| Monitor Reading (ppm): | | | | | | | | |
| Well Casing Diameter & Material | | | | | | | | |
| | | | | | | | | |
| Total Well Depth (TD): 17.75 | | | | | | | | |
| Static Water Level (WL): 14.79 | | | | | | | | |
| One Casing Volume(gal/L): | | | | | | | | |
| Start Purge (hrs): | | | | | | | | |
| End Purge (hrs): | | | | | | | | |
| Total Purge Time (min): | | | | | | | | |
| Total Vol. Purged (gal/L): | | | | | | | | |

**SAMPLE COLLECTION INFORMATION:**

| Analysis | Preservative | Container Requirements | Collected |
|---|---|---|---|
| VOCs | HCl | 3-40 ml vials | |
| Total Metals | HNO3 | 1-500 ml plastic | |
| Dissolved Metals | HNO3 | 1-500 ml plastic | |
| 1,4-Dioxane | — | 2-1L Ambers | |
| Perchlorate | — | 1-250 ml plastic | |
| GRO + DRO | HCl/None | 2-40ml Vials / 2-1L Ambers | |
| Hexavalent Chromium | — | 1-250 ml plastic | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

**OBSERVATIONS / NOTES:**

Hex Chrom collected @ 1320

**Circle if Applicable:**

MS/MSD | Duplicate ID No.:

**Signature(s):**

# LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: Martin State Airport
PROJECT NUMBER: 112IC04021-02
WELL ID.: MT-MW02S-04232
DATE: 4-23-12

| Time (Hrs.) | Water Level (Ft. below TOC) | Flow (mL/Min.) | pH (S.U.) | S. Cond. (mS/cm) | Turb. (NTU) | DO (mg/L) | Temp. (Celcius) | ORP mV | Salinity % or ppt | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| 1305 | 9.45 | — | — | — | — | — | — | — | — | Initial, no odor |
| 1306 | 9.85 | 300 | 6.07 | 0.609 | 157 | 3.00 | 13.76 | 63 | 0.3 | Cloudy water |
| 1311 | 10.05 | 100 | 5.82 | 0.623 | 31.8 | 1.91 | 13.63 | 44 | 0.3 | Slightly cloudy |
| 1316 | 10.35 | 100 | 5.76 | 0.626 | 14.5 | 1.67 | 13.61 | 37 | 0.3 | |
| 1326 | 11.03 | 100 | 5.72 | 0.639 | 14.1 | 1.29 | 13.37 | 25 | 0.3 | |
| 1336 | 12.10 | 100 | 5.71 | 0.641 | 13.3 | 1.26 | 13.41 | 14 | 0.3 | |
| 1346 | 12.75 | 100 | 5.78 | 0.648 | 12.7 | 1.21 | 13.17 | 8 | 0.3 | |
| 1356 | 13.40 | 100 | 5.82 | 0.653 | 13.4 | 1.18 | 13.35 | 1 | 0.3 | |
| 1406 | 14.01 | 100 | 5.85 | 0.669 | 13.5 | 1.14 | 13.11 | -4 | 0.3 | |
| 1416 | 14.75 | 100 | 5.86 | 0.678 | 14.1 | 1.22 | 13.33 | -9 | 0.3 | |
| 1426 | 15.30 | 100 | 5.76 | 0.690 | 15.1 | 1.27 | 13.33 | -7 | 0.3 | |
| 1436 | 16.00 | 100 | 5.80 | 0.696 | 15.1 | 1.27 | 13.76 | -13 | 0.3 | |

Well parameters did not stabilize 90 min max purge per Work Plan. Well dry for Recharge 60%.

SIGNATURE(S): [signature]

Tetra Tech NUS, Inc.

# GROUNDWATER SAMPLE LOG SHEET



Project Site Name: Manton State Airport
Project No.: 112FC04621.02

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: MAT-MW03-042312
Sample Location: MW03
Sampled By: Walt P.
C.O.C. No.:
Type of Sample:
[] Low Concentration
[] High Concentration

**SAMPLING DATA:**

| Date: / Time: | Color (Visual) | pH (S.U.) | S.C. (mS/cm) | Temp. (°C) | Turbidity (NTU) | DO (mg/l) | Salinity (%) | Other |
|---|---|---|---|---|---|---|---|---|
| Method: Peristaltic pump | Cloudy | 6.21 | 0.152 | 14.85 | 3.05 | 1.42 | 0.1 | ORP 11 |

**PURGE DATA:**

| | Volume | pH | S.C. | Temp. | Turbidity | DO | Salinity | Other |
|---|---|---|---|---|---|---|---|---|
| Date 4-23-12 | | | | | | | | |
| Method: Peristaltic pump | | | | | | | | |
| Monitor Reading (ppm): 0.0 | | | | | | | | |
| Well Casing Diameter & Material Type: 2" PVC | | | See | low | flow | purge | | |
| Total Well Depth (TD): | | | | | | | | |
| Static Water Level (WL): Top of Box | | | Data | Sheet | | | | |
| One Casing Volume(gal/L): | | | | | | | | |
| Start Purge (hrs): 1037 | | | | | | | | |
| End Purge (hrs): 1148 | | | | | | | | |
| Total Purge Time (min): 70 | | | | | | | | |
| Total Vol. Purged (gal/L) 2.0 | | | | | | | | |

**SAMPLE COLLECTION INFORMATION:**

| Analysis | Preservative | Container Requirements | Collected |
|---|---|---|---|
| VOCs | HCl | 3 - 40 ml VOA | |
| Total PPM | HNO3 | 1 - 500 ml Poly | |
| Diss PPM | HNO3 | 1 - 500 ml Poly | |
| 1,4 Dioxane | — | 2 - 1L Ambers | |
| Perchlorate | — | 1 - 250 ml Poly | |
| Hex Chrom | — | 1 - 250 ml Poly | |
| GRO | — | 2 - 40 ml VOA | |
| DRO | — | 2 - 1L Ambers | |
| | | | |
| | | | |

**OBSERVATIONS / NOTES:**

Circle if Applicable:
MS/MSD | Duplicate ID No.:

Signature(s): Walt P.

# LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: Martin State Airport
PROJECT NUMBER: 112IC04021-02

WELL ID.: MTT-MW03-042312
DATE: 4-23-12

| Time (Hrs.) | Water Level (Ft. below TOC) | Flow (mL/Min.) | pH (S.U.) | S. Cond. (mS/cm) | Turb. (NTU) | DO (mg/L) | Temp. (Celcius) | ORP mV | Salinity % or ppt | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| 1037 | Top Of PR | — | — | — | — | — | — | — | — | Initially murky brown |
| 1038 | 0.40 | 300 | 5.58 | 0.286 | 61.9 | 3.15 | 15.61 | 165 | 0-1 | Slightly cloudy |
| 1043 | 1.55 | 200 | 6.01 | 0.214 | 56.5 | 1.61 | 15.39 | 83 | 0-1 | ↓ |
| 1048 | 2.30 | 200 | 6.15 | 0.201 | 65.4 | 1.41 | 15.25 | 54 | 0-1 | |
| 1058 | 3.50 | 100 | 6.23 | 0.186 | 275 | 1.27 | 15.15 | 33 | 0-1 | Cloudy water |
| 1108 | 4.55 | 100 | 6.26 | 0.181 | 390 | 1.20 | 14.76 | 26 | 0-1 | |
| 1118 | 5.85 | 100 | 6.26 | 0.182 | 346 | 1.16 | 14.80 | 19 | 0-1 | |
| 1128 | 6.95 | 100 | 6.27 | 0.186 | 364 | 1.18 | 14.65 | 13 | 0-1 | |
| 1138 | 8.00 | 100 | 6.29 | 0.186 | 360 | 1.30 | 14.64 | 9 | 0-1 | |
| 1148 | 9.00 | 100 | 6.21 | 0.192 | 305 | 1.40 | 14.65 | 11 | 0-1 | ↓ |
| 1158 | | | | | | | | | | |
| 1208 | | | | Dry | | | | | | |

Let Well Recharge 90%

SIGNATURE(S): [signature]

Tetra Tech NUS, Inc.

# GROUNDWATER SAMPLE LOG SHEET



Project Site Name: Meaton State Airport
Project No.: 112G04021-02

Sample ID No.: MT-MW04S-042412
Sample Location: MW04S
Sampled By: Matt P
C.O.C. No.:
Type of Sample:
[] Low Concentration
[] High Concentration

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

**SAMPLING DATA:**

| Date: 4-28-12 / Time: 1130 / Method: Peristaltic pump | Color (Visual) | pH (S.U.) | S.C. (mS/cm) | Temp. (°C) | Turbidity (NTU) | DO (mg/l) | Salinity (%) | Other ORP |
|---|---|---|---|---|---|---|---|---|
| | Clean | 4.48 | 0.134 | 14.15 | 2.9 | 2.28 | 0.1 | 260 |

**PURGE DATA:**

| Date: 4-24-12 | Volume | pH | S.C. | Temp. | Turbidity | DO | Salinity | Other |
|---|---|---|---|---|---|---|---|---|
| Method: Peristaltic pump | | | | | | | | |
| Monitor Reading (ppm): 0.0 | | | | | | | | |
| Well Casing Diameter & Material Type: 2" PVC | | | See | Low | Flow | Purge | | |
| Total Well Depth (TD): | | | | Data | Sheet | | | |
| Static Water Level (WL): 5.81 | | | | | | | | |
| One Casing Volume(gal/L): | | | | | | | | |
| Start Purge (hrs): 0954 | | | | | | | | |
| End Purge (hrs): 1125 | | | | | | | | |
| Total Purge Time (min): ~~8.0~~ | 91 | | | | | | | |
| Total Vol. Purged (gal/L): 2.0 | | | | | | | | |

**SAMPLE COLLECTION INFORMATION:**

| Analysis | Preservative | Container Requirements | Collected |
|---|---|---|---|
| VOCs | HCl | 3 - 40 ml VOA | ✓ |
| Total Fe | HNO3 | 1 - 500 ml Poly | ✓ |
| Diss Fe | HNO3 | 1 - 500 ml Poly | ✓ |
| 1,4 Dioxane | — | 2 - 1L Ambers | ✓ |
| DRO | — | 2 - 1L Ambers | ✓ |
| GRO | HCl | 2 - 40 ml VOA | ✓ |
| Perchlorate | — | 1 - 250 ml Poly | ✓ |
| Hex Chrom | — | 1 - 250 ml Poly | ✓ |
| | | | |
| | | | |

**OBSERVATIONS / NOTES:**

**Circle if Applicable:**
MS/MSD
Duplicate ID No.:

**Signature(s):**
Matt P

# LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: Martin State Airport
PROJECT NUMBER: 112EC0421-02
WELL ID.: MT-MW04S-042412
DATE: 4-24-12

| Time (Hrs.) | Water Level (Ft. below TOC) | Flow (mL/Min.) | pH (S.U.) | S. Cond. (mS/cm) | Turb. (NTU) | DO (mg/L) | Temp. (Celcius) | ORP mV | Salinity % or ppt | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| 0954 | 5.81 | — | — | — | — | — | — | — | — | Initial, MW odor |
| 0955 | 6.60 | 300 | 4.05 | 0.196 | 76.9 | 4.75 | 15.71 | 287 | 0.1 | Cloudy water |
| 1000 | 7.15 | 150 | 3.88 | 0.161 | 35.5 | 2.84 | 15.98 | 296 | 0.1 | Slightly cloudy |
| 1005 | 7.60 | 100 | 3.88 | 0.149 | 16.4 | 2.67 | 15.27 | 296 | 0.1 | ↓ |
| 1015 | 8.90 | 100 | 4.03 | 0.137 | 7.3 | 2.55 | 14.68 | 287 | 0.1 | Clear water |
| 1025 | 10.50 | 100 | 4.31 | 0.137 | 4.7 | 2.54 | 13.83 | 271 | 0.1 | |
| 1035 | 11.80 | 100 | 4.32 | 0.136 | 3.8 | 2.50 | 13.77 | 269 | 0.1 | |
| 1045 | 13.10 | 100 | 4.45 | 0.136 | 4.0 | 2.48 | 13.81 | 262 | 0.1 | |
| 1055 | 14.80 | 100 | 4.44 | 0.135 | 3.4 | 2.49 | 13.81 | 262 | 0.1 | |
| 1105 | 15.01 | 100 | 4.44 | 0.135 | 3.3 | 2.35 | 13.95 | 262 | 0.1 | |
| 1115 | 15.50 | 100 | 4.47 | 0.134 | 2.6 | 2.32 | 14.12 | 260 | 0.1 | |
| 1125 | 15.70 | 100 | 4.44 | 0.134 | 2.5 | 2.28 | 14.15 | 260 | 0.1 | ↓ |

Well Parameters did not Stabilize after 90 min max Purge Plan Sampling Begins

SIGNATURE(S): Matt Fee

Tetra Tech NUS, Inc.

# GROUNDWATER SAMPLE LOG SHEET



Project Site Name: Martin State Airport
Project No.: 112EC0421-62

Sample ID No.: MT-MW05S-042512
Sample Location: MW05S
Sampled By: Walt P
C.O.C. No.:
Type of Sample:
[] Low Concentration
[] High Concentration

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

**SAMPLING DATA:**

| Date: 4-25-12 | Color | pH | S.C. | Temp. | Turbidity | DO | Salinity | Other |
|---|---|---|---|---|---|---|---|---|
| Time: 1051 | (Visual) | (S.U.) | (mS/cm) | (°C) | (NTU) | (mg/l) | (‰) | ORP |
| Method: Peristaltic pump | Clear | 4.00 | 0.587 | 13.04 | 2.0 | 1.00 | 0.3 | 345 |

**PURGE DATA:**

| Date: 4-25-12 | Volume | pH | S.C. | Temp. | Turbidity | DO | Salinity | Other |
|---|---|---|---|---|---|---|---|---|
| Method: Peristaltic pump | | | | | | | | |
| Monitor Reading (ppm): 0.0 | | | | | | | | |
| Well Casing Diameter & Material Type: 2" PVC | | See Low Flow Purge Data Sheet | | | | | | |
| Total Well Depth (TD): | | | | | | | | |
| Static Water Level (WL): 4.15 | | | | | | | | |
| One Casing Volume(gal/L): | | | | | | | | |
| Start Purge (hrs): 0915 | | | | | | | | |
| End Purge (hrs): 1046 | | | | | | | | |
| Total Purge Time (min): 91 | | | | | | | | |
| Total Vol. Purged (gal/L): 2.5 | | | | | | | | |

**SAMPLE COLLECTION INFORMATION:**

| Analysis | Preservative | Container Requirements | Collected |
|---|---|---|---|
| VOCs | HCl | 3 – 40 ml VOA | ✓ |
| Total PPM | $HNO_3$ | 1 – 500 ml Poly | ✓ |
| Diss PPM | $HNO_3$ | 1 – 500 ml Poly | ✓ |
| 1,4 Dioxane | — | 2 – 1L Ambers | ✓ |
| DRO | — | 2 – 1L Ambers | ✓ |
| GRO | HCl | 2 – 40 ml VOA | ✓ |
| Perchlorate | — | 1 – 250 ml Poly | ✓ |
| Hex Chrom | — | 1 – 250 ml Poly | ✓ |
| | | | |
| | | | |

**OBSERVATIONS / NOTES:**

**Circle if Applicable:**
MS/MSD
Duplicate ID No.:

**Signature(s):**

# LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: Martin State Airport
PROJECT NUMBER: 112G04021.

WELL ID.: MT-MW05S - 042512
DATE: 4-25-12

| Time (Hrs.) | Water Level (Ft. below TOC) | Flow (mL/Min.) | pH (S.U.) | S. Cond. (mS/cm) | Turb. (NTU) | DO (mg/L) | Temp. (Celcius) | ORP mV | Salinity % or ppt | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| 0915 | 4.15 | — | — | — | — | — | — | — | — | Initial, no odor |
| 0916 | 4.90 | 300 | 4.00 | 0.662 | 15.7 | 3.16 | 14.33 | 328 | 0.3 | Slightly cloudy |
| 0921 | 5.45 | 100 | 3.91 | 0.643 | 3.0 | 1.74 | 13.33 | 340 | 0.3 | Clean water |
| 0926 | 6.00 | 100 | 3.85 | 0.623 | 3.2 | 1.46 | 12.42 | 340 | 0.3 | |
| 0931 | 7.45 | 100 | 3.87 | 0.601 | 6.7 | 1.14 | 12.75 | 343 | 0.3 | |
| 0941 | 8.53 | 100 | 3.96 | 0.593 | 2.6 | 1.15 | 12.76 | 344 | 0.3 | |
| 0951 | 9.70 | 100 | 3.91 | 0.593 | 3.1 | 1.05 | 12.77 | 344 | 0.3 | |
| 1001 | 10.85 | 100 | 3.94 | 0.589 | 2.4 | 1.07 | 12.81 | 344 | 0.3 | |
| 1011 | 11.90 | 100 | 3.95 | 0.589 | 2.4 | 1.06 | 12.91 | 345 | 0.3 | |
| 1021 | 12.90 | 100 | 3.97 | 0.587 | 1.9 | 1.02 | 12.97 | 345 | 0.3 | |
| 1031 | 14.20 | 100 | 3.99 | 0.587 | 1.9 | 1.00 | 13.05 | 345 | 0.3 | |
| 1041 | 15.20 | 100 | 4.00 | 0.587 | 2.0 | 1.00 | 13.04 | 345 | 0.3 | |
| | | | Well parameters did not Stabilize | | | | | | | |
| | | | after 90 min max Purge Time Limit | | | | | | | |
| | | | Start Sampling Begins | | | | | | | |

SIGNATURE(S): Walt Pe

Tetra Tech NUS, Inc.

# GROUNDWATER SAMPLE LOG SHEET



Project Site Name: Martin State Airport
Project No.: 112G04021 - 02

Sample ID No.: MT-MW06S-042412
Sample Location: MW06S
Sampled By: Walt P
C.O.C. No.:
Type of Sample:
[] Low Concentration
[] High Concentration

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

**SAMPLING DATA:**

| | Color | pH | S.C. | Temp. | Turbidity | DO | Salinity | Other |
|---|---|---|---|---|---|---|---|---|
| Date: 4-24-12 | (Visual) | (S.U.) | (mS/cm) | (°C) | (NTU) | (mg/l) | (%) | ORP |
| Time: 1457 | | | | | | | | |
| Method: Peristaltic pump | Clear | 4.42 | 0.864 | 18.10 | 8.8 | 1.30 | 0.4 | 265 |

**PURGE DATA:**

| | Volume | pH | S.C. | Temp. | Turbidity | DO | Salinity | Other |
|---|---|---|---|---|---|---|---|---|
| Date: 4-24-12 | | | | | | | | |
| Method: Peristaltic pump | | | | | | | | |
| Monitor Reading (ppm): 0.0 | | | | | | | | |
| Well Casing Diameter & Material Type: 2" PVC | | | | | | | | |
| Total Well Depth (TD): | | See | low | flow | purge | | | |
| Static Water Level (WL): 1.50 | | | | | | | | |
| One Casing Volume(gal/L): | | | Data | Sheet | | | | |
| Start Purge (hrs): 1331 | | | | | | | | |
| End Purge (hrs): 1452 | | | | | | | | |
| Total Purge Time (min): 81 | | | | | | | | |
| Total Vol. Purged (gal/L): 2.5 | | | | | | | | |

**SAMPLE COLLECTION INFORMATION:**

| Analysis | Preservative | Container Requirements | Collected |
|---|---|---|---|
| VOCs | HCl | 3 – 40 ml vial | ✓ |
| Total Mn | HNO3 | 1 – 500 ml Poly | ✓ |
| Diss Mn | HNO3 | 1 – 500 ml Poly | ✓ |
| 1,4 Dioxane | — | 2 – 1L Ambers | ✓ |
| DRO | — | 2 – 1L Ambers | ✓ |
| GRO | HCl | 2 – 40 ml vials | ✓ |
| Perchlorate | — | 1 – 250 ml Poly | ✓ |
| Hex Chrom | — | 1 – 250 ml Poly | ✓ |
| | | | |
| | | | |

**OBSERVATIONS / NOTES:**

Circle if Applicable:
MS/MSD
Duplicate ID No.:

Signature(s):
Walt P

# LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: Mansfield State Airport
PROJECT NUMBER: 112EC04021 02

WELL ID.: MT-MW06S-042412
DATE: 4-24-12

| Time (Hrs.) | Water Level (Ft. below TOC) | Flow (mL/Min.) | pH (S.U.) | S. Cond. (mS/cm) | Turb. (NTU) | DO (mg/L) | Temp. (Celcius) | ORP mV | Salinity % or ppt | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| 1331 | 1.50 | — | — | — | — | — | — | — | — | |
| 1332 | 2.05 | 300 | 4.42 | 0.744 | 61.1 | 3.05 | 20.09 | 251 | 0.4 | Initial, no odor |
| 1337 | 3.00 | 200 | 4.38 | 0.793 | 34.6 | 1.48 | 18.79 | 276 | 0.4 | Slightly Cloudy |
| 1342 | 3.75 | 100 | 4.35 | 0.792 | 28.0 | 1.24 | 18.61 | 277 | 0.4 | |
| 1352 | 5.65 | 100 | 4.21 | 0.804 | 19.6 | 1.21 | 18.11 | 285 | 0.4 | |
| 1402 | 6.30 | 100 | 4.22 | 0.805 | 11.1 | 1.20 | 14.21 | 282 | 0.4 | |
| 1412 | 6.60 | 100 | 4.29 | 0.806 | 11.7 | 1.27 | 18.25 | 278 | 0.4 | |
| 1422 | 6.90 | 100 | 4.31 | 0.806 | 9.1 | 1.22 | 18.22 | 276 | 0.4 | Clean water |
| 1432 | 7.25 | 100 | 4.34 | 0.805 | 8.5 | 1.22 | 18.11 | 273 | 0.4 | |
| 1442 | 7.60 | 100 | 4.39 | 0.805 | 9.7 | 1.26 | 18.01 | 270 | 0.4 | |
| 1447 | 7.65 | 100 | 4.41 | 0.805 | 9.5 | 1.29 | 18.06 | 268 | 0.4 | |
| 1452 | 7.70 | 100 | 4.42 | 0.804 | 9.8 | 1.30 | 18.10 | 265 | 0.4 | |
| | | | Well Parameters Stabilized | | | | | | | |
| | | | Sampling Begins | | | | | | | |

SIGNATURE(S): Matt C

Tetra Tech

# GROUNDWATER SAMPLE LOG SHEET



Project Site Name: Main Terminal GW Sampling
Project No.:

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: MT-MW05
Sample Location: MSA
Sampled By: SBL/JAM
C.O.C. No.:
Type of Sample:
[] Low Concentration
[] High Concentration

**SAMPLING DATA:**

| Date: 8/22/12 | Color (Visual) | pH (S.U.) | S.C. (mS/cm) | Temp. (°C) | Turbidity (NTU) | DO (mg/l) | Salinity (%) | Other ORP |
|---|---|---|---|---|---|---|---|---|
| Time: 1110 | | | | | | | | |
| Method: | Light Tan | 4.74 | 0.883 | 19.71 | 17.9 | 1.23 | 0.03 | 100.8 |

**PURGE DATA:**

| Date: 8/22/12 | Volume | pH | S.C. | Temp. | Turbidity | DO | Salinity | Other |
|---|---|---|---|---|---|---|---|---|
| Method: Monsoon | | | | | | | | |
| Monitor Reading (ppm): | | | | | | | | |
| Well Casing Diameter & Material Type: 2" PVC | | | SEE | LOW | FLOW | PUMP | DATA | |
| Total Well Depth (TD): 34.41 | | | | | | SHEET | | |
| Static Water Level (WL): 9.34 | | | | | | | | |
| One Casing Volume(gal/L): | | | | | | | | |
| Start Purge (hrs): 1015 | | | | | | | | |
| End Purge (hrs): 1125 | | | | | | | | |
| Total Purge Time (min): 70 | | | | | | | | |
| Total Vol. Purged (gal/L): 3 | | | | | | | | |

**SAMPLE COLLECTION INFORMATION:**

| Analysis | Preservative | Container Requirements | Collected |
|---|---|---|---|
| VOCs | HCl | 3- 40 mL vials | |
| TPH-GRO | HCl | 3- 40 mL vials | |
| TPH-DRO | None | 2- 1L ambers | |
| ~~Sulfate~~ Sulfide/Hydrazine | None | 2- 1L ambers | |
| Total Metals | HNO3 | 1- 500ml plastic bottle | |
| Dissolved Metals | HNO3 | 1- 500 mL plastic bottle | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

**OBSERVATIONS / NOTES:**

**Circle if Applicable:**

| MS/MSD | Duplicate ID No.: |
|---|---|
| | |

**Signature(s):**

# LOW FLOW PURGE DATA SHEET

**PROJECT SITE NAME:** Mesa Terrace / GW Sampling
**PROJECT NUMBER:**
**WELL ID.:** MT-MW-07S
**DATE:** 8/22/12

| Time (Hrs.) | Water Level (Ft. below TOC) | Flow (mL/Min.) | pH (S.U.) | S. Cond. (mS/cm) | Turb. (NTU) | DO (mg/L) | Temp. (Celcius) | ORP mV | Salinity % or ppt | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| 1015 | ~~1005~~ 9.34 | — | — | — | — | — | — | — | — | |
| 1020 | 9.86 | 200 | 5.80 | 0.163 | >1000 | 2.42 | 20.12 | -48.2 | 0.09 | |
| 1025 | 9.86 | 200 | 4.72 | 0.184 | >1000 | 0.45 | 20.28 | 16.9 | 0.09 | |
| 1030 | 9.98 | 200 | 5.78 | 0.169 | >1000 | 0.42 | 19.42 | -13.2 | 0.09 | |
| 1035 | 9.83 | 200 | 5.19 | 0.145 | 886 | 0.39 | 19.49 | 2.5 | 0.08 | |
| 1040 | ~~9.90~~ | ~~200~~ | 5.42 | 0.125 | 255 | 0.42 | 20.43 | 1.4 | 0.07 | |
| 1045 | 10.00 | 200 | 5.19 | 0.103 | 135 | 0.61 | 19.56 | 37.0 | 0.05 | |
| 1050 | 9.91 | 200 | 5.04 | 0.083 | 77.5 | 0.68 | 19.89 | 45.6 | 0.04 | |
| 1055 | 9.85 | 200 | 5.04 | 0.079 | 53.3 | 0.87 | 20.19 | 60.9 | 0.04 | |
| 1100 | ~~9.90~~ 9.90 | 200 | 4.81 | 0.069 | 29.7 | 1.06 | 19.78 | 87.5 | 0.03 | |
| 1105 | 10.15 | 200 | 4.79 | 0.062 | 27.3 | 1.14 | 20.00 | 97.0 | 0.03 | |
| 1110 | 10.16 | 200 | 4.79 | ~~0.069~~ | 17.9 | 1.23 | 19.21 | 100.8 | 0.03 | |
| | | | | Begin Sampling at 1110 | | | | | | |

**SIGNATURE(S):**

Tetra Tech

# GROUNDWATER SAMPLE LOG SHEET



Project Site Name: Main Terminal Gw Sampling
Project No.:

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: MT-MW08S
Sample Location: MSA
Sampled By: SBL/JAM
C.O.C. No.:
Type of Sample:
[ ] Low Concentration
[ ] High Concentration

**SAMPLING DATA:**

| Date: 8/22/12 | Color (Visual) | pH (S.U.) | S.C. (mS/cm) | Temp. (°C) | Turbidity (NTU) | DO (mg/l) | Salinity (%) | Other |
|---|---|---|---|---|---|---|---|---|
| Time: 0940 | | | | | | | | ORP |
| Method: | clear | 5.97 | 0.162 | 21.50 | 1.0 | 3.08 | 0.08 | 94.5 |

**PURGE DATA:**

| Date: 8-22-12 | Volume | pH | S.C. | Temp. | Turbidity | DO | Salinity | Other |
|---|---|---|---|---|---|---|---|---|
| Method: Monsoon Pump | | | | | | | | |
| Monitor Reading (ppm): - | | | | | | | | |
| Well Casing Diameter & Material Type: 2" PVC | | | | | | | | |
| Total Well Depth (TD): 34.82 | | | | | | | | |
| Static Water Level (WL): 9.35 | | | | | | | | |
| One Casing Volume(gal/L): | | | | | | | | |
| Start Purge (hrs): 0855 | | | | | | | | |
| End Purge (hrs): 1005 | | | | | | | | |
| Total Purge Time (min): 70 | | | | | | | | |
| Total Vol. Purged (gal/L): 3 | | | | | | | | |

See Low Flow Data Sheet

**SAMPLE COLLECTION INFORMATION:**

| Analysis | Preservative | Container Requirements | Collected |
|---|---|---|---|
| VOCs | HCl | 3- 40 mL vials | |
| TPH-GRO | HCl | 3- 40 mL vials | |
| TPH-DRO | None | 2- 1 L ambers | |
| BTEX/ 1,4-dioxane | None | 2- 1L Amber | |
| Total Metals | HNO3 | 1- 500 mL plastic bottle | |
| Dissolved metals | HNO3 | 1- 500 mL plastic bottle | |
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**OBSERVATIONS / NOTES:**

**Circle if Applicable:**

| MS/MSD | Duplicate ID No.: |
|---|---|
| | |

**Signature(s):**

# LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: Main Terminal GW Sampling
PROJECT NUMBER:

WELL ID.: MT-MW-08S
DATE: 8/22/12

| Time (Hrs.) | Water Level (Ft. below TOC) | Flow (mL/Min.) | pH (S.U.) | S. Cond. (mS/cm) | Turb. (NTU) | DO (mg/L) | Temp. (Celcius) | ORP mV | Salinity % or ppt | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| 0855 | 9.35 | - | - | - | - | - | - | - | - | |
| 0900 | 10.67 | 200 | 6.26 | 0.187 | 66.4 | 4.98 | 21.86 | 617 | 0.09 | |
| 0905 | 11.90 | | 5.32 | 0.196 | 94.6 | 3.06 | 21.81 | 418 | 0.10 | |
| 0910 | 12.65 | | 5.43 | 0.203 | 69.0 | 2.84 | 22.56 | 288 | 0.10 | |
| 0915 | 13.54 | | 6.08 | 0.191 | 54.6 | 2.91 | 22.54 | 22.6 | 0.10 | |
| 0920 | 14.98 | | 5.97 | 0.186 | 38.3 | 2.87 | 21.45 | 42.9 | 0.09 | |
| 0925 | 17.32 | | 5.98 | 0.181 | 27.4 | 2.86 | 22.02 | 64.9 | 0.09 | |
| 0930 | 17.05 | | 5.90 | 0.174 | 13.1 | 2.91 | 21.85 | 89.4 | 0.09 | |
| 0935 | 19.35 | | 5.97 | 0.162 | 11.0 | 3.08 | 21.50 | 94.5 | 0.08 | |
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SIGNATURE(S): Rob Medina

Tetra Tech

# GROUNDWATER SAMPLE LOG SHEET



Project Site Name: Main Terminal / GW Sampling
Project No.:

Sample ID No.: MF-MW-095
Sample Location: MSA
Sampled By: SBC / JAM
C.O.C. No.:
Type of Sample:
[] Low Concentration
[] High Concentration

[] Domestic Well Data
[x] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

**SAMPLING DATA:**

| | Color (Visual) | pH (S.U.) | S.C. (mS/cm) | Temp. (°C) | Turbidity (NTU) | DO (mg/l) | Salinity (%) | Other ORP |
|---|---|---|---|---|---|---|---|---|
| Date: 8/21/12 | | | | | | | | |
| Time: 1338 | | | | | | | | |
| Method: | clear/clear | 5.94 | 0.201 | 17.55 | 6.28 | 0.35 | 0.10 | 8.5 |

**PURGE DATA:**

| | Volume | pH | S.C. | Temp. | Turbidity | DO | Salinity | Other |
|---|---|---|---|---|---|---|---|---|
| Date: 8/21/12 | | | | | | | | |
| Method: Monsoon | | | | | | | | |
| Monitor Reading (ppm): | | | | See Low Flow Water Purge Sheet | | | | |
| Well Casing Diameter & Material Type: 2" PVC | | | | | | | | |
| Total Well Depth (TD): 46.34 | | | | | | | | |
| Static Water Level (WL): 11.83 | | | | | | | | |
| One Casing Volume(gal/L): | | | | | | | | |
| Start Purge (hrs): 1255 | | | | | | | | |
| End Purge (hrs): 1400 | | | | | | | | |
| Total Purge Time (min): 65 | | | | | | | | |
| Total Vol. Purged (gal/L): 3 | | | | | | | | |

**SAMPLE COLLECTION INFORMATION:**

| Analysis | Preservative | Container Requirements | Collected |
|---|---|---|---|
| VOCs | HCl | 3-40 mL VOAs | |
| TPH-GRO | HCl | 3-40 mL VOAs | |
| TPH-DRO | None | 2-1L ambers | |
| SVOCs / 1,4-dioxane | None | 2-1L ambers | |
| Total Metals | HNO3 | 1-500 mL plastic bottle | |
| Dissolved Metals | HNO3 | 1-500 mL plastic bottle | |

**OBSERVATIONS / NOTES:**

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

# LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: Main Terminal GW Sampling
PROJECT NUMBER:

WELL ID.: MT-MW 08S
DATE: 8/21/12

| Time (Hrs.) | Water Level (Ft. below TOC) | Flow (mL/Min.) | pH (S.U.) | S. Cond. (mS/cm) | Turb. (NTU) | DO (mg/L) | Temp. (Celcius) | ORP mV | Salinity % or ppt | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| 1255 | 11.83 | — | — | — | — | — | — | — | — | |
| 1300 | 13.55 | 150 | 5.81 | 0.204 | 66.2 | 0.65 | 21.51 | 9.6 | 0.10 | |
| 1305 | 14.55 | | 5.90 | 0.217 | 76.5 | 0.40 | 22.57 | 7.6 | 0.10 | |
| 1310 | 15.15 | | 5.98 | 0.215 | 73.2 | 0.36 | 23.98 | 9.5 | 0.10 | |
| 1315 | 15.95 | | 5.96 | 0.209 | 75.7 | 0.34 | 23.72 | 7.4 | 0.10 | |
| 1320 | 17.05 | | 5.96 | 0.210 | 62.0 | 0.34 | 24.33 | 7.5 | 0.10 | |
| 1325 | 17.45 | | 5.94 | 0.201 | 87.8 | 0.35 | 23.55 | 8.5 | 0.10 | |
| | | | | | Sampling at | | 1320 | | | |

SIGNATURE(S):

Tetra Tech

# GROUNDWATER SAMPLE LOG SHEET



Project Site Name: Main Terminal GW Sampling
Project No.:

- [ ] Domestic Well Data
- [x] Monitoring Well Data
- [ ] Other Well Type:
- [ ] QA Sample Type:

Sample ID No.: MT-MW10S
Sample Location: MSA
Sampled By: SAL/JAM
C.O.C. No.:
Type of Sample:
- [ ] Low Concentration
- [ ] High Concentration

**SAMPLING DATA:**

| Date: 8/22/12 | Color (Visual) | pH (S.U.) | S.C. (mS/cm) | Temp. (°C) | Turbidity (NTU) | DO (mg/l) | Salinity (%) | Other ORP |
|---|---|---|---|---|---|---|---|---|
| Time: 1320 | | | | | | | | |
| Method: | Clear | 5.44 | 0.712 | 14.54 | 0.1 | 0.38 | 0.11 | 27.8 |

**PURGE DATA:**

| Date: 8/22/12 | Volume | pH | S.C. | Temp. | Turbidity | DO | Salinity | Other |
|---|---|---|---|---|---|---|---|---|
| Method: Monsoon | | | | | | | | |
| Monitor Reading (ppm): | | | | SEE low flow | | | | |
| Well Casing Diameter & Material Type: 2" PVC | | | | | | | | |
| Total Well Depth (TD): 39.71 | | | | | | | | |
| Static Water Level (WL): 10.94 | | | | | | | | |
| One Casing Volume(gal/L): | | | | | | | | |
| Start Purge (hrs): 1220 | | | | | | | | |
| End Purge (hrs): 1345 | | | | | | | | |
| Total Purge Time (min): 85 | | | | | | | | |
| Total Vol. Purged (gal/L): 3 | | | | | | | | |

**SAMPLE COLLECTION INFORMATION:**

| Analysis | Preservative | Container Requirements | Collected |
|---|---|---|---|
| VOCs | HCl | 3-40 mL vials | |
| TPH-GRO | HCl | 3-40 mL vials | |
| TPH-DRO | none | 2-1L ambers | |
| SVOCs/ 1,4-D. Xane | none | 2-1L ambers | |
| Total Metals | HNO3 | 1-500 mL plastic bottle | |
| Dissolved Metals | HNO3 | 1-500 mL plastic bottle | |
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**OBSERVATIONS / NOTES:**

**Circle if Applicable:**

| MS/MSD | Duplicate ID No.: |
|---|---|

**Signature(s):**

# LOW FLOW PURGE DATA SHEET

**PROJECT SITE NAME:** Mark Twain Natl GW Sampling
**PROJECT NUMBER:**
**WELL ID.:** MT-MW-105
**DATE:** 8/22/12

| Time (Hrs.) | Water Level (Ft. below TOC) | Flow (mL/Min.) | pH (S.U.) | S. Cond. (mS/cm) | Turb. (NTU) | DO (mg/L) | Temp. (Celcius) | ORP mV | Salinity % or ppt | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| 1220 | 10.44 | - | - | - | - | - | - | - | - | |
| 1225 | 13.00 | ~~150~~ | 5.54 | 0.248 | >1000 | 2.67 | 19.43 | 13.3 | 0.13 | |
| 1230 | 13.61 | 150 | 4.64 | 0.250 | >1000 | 3.05 | 20.85 | 55.47 | 0.13 | |
| 1235 | 14.54 | 150 | 5.15 | 0.245 | 375 | 0.51 | 20.46 | 21.3 | 0.13 | |
| 1240 | 14.96 | 150 | 5.45 | 0.244 | 263 | 0.40 | 20.72 | 5.1 | 0.13 | |
| 1245 | 14.41 | 150 | 5.54 | 0.239 | 187 | 0.34 | 20.21 | 5.5 | 0.12 | |
| 1250 | 15.34 | \| | 5.56 | 0.236 | 130 | 0.36 | 20.36 | 7.8 | 0.12 | |
| 1255 | 15.72 | \| | 5.21 | 0.229 | 90.7 | 0.39 | 19.58 | 33.0 | 0.12 | |
| 1300 | 15.75 | \| | 5.43 | 0.239 | 74.2 | 0.38 | 20.04 | 29.3 | 0.12 | |
| 1305 | 15.92 | \| | 5.51 | 0.228 | 50.2 | 0.38 | 20.42 | 20.3 | 0.12 | |
| 1310 | 16.59 | \| | 5.49 | 0.217 | 18.4 | 0.38 | 20.00 | 22.9 | 0.11 | |
| 1315 | 16.88 | \| | 5.44 | 0.212 | 12.1 | 0.38 | 19.58 | 27.8 | 0.11 | |
| | | \| | | | | | | | | |
| | | \| | | ~~#~~ | 1320 | Begin Sampling | | | | |
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Tetra Tech

# GROUNDWATER SAMPLE LOG SHEET



Project Site Name: Marine Terminal GW Sampling
Project No.:

Sample ID No.: MT-MW11S
Sample Location: MSA
Sampled By: SBL/JAM
C.O.C. No.:
Type of Sample:
[] Low Concentration
[] High Concentration

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

**SAMPLING DATA:**

| | Color (Visual) | pH (S.U.) | S.C. (mS/cm) | Temp. (°C) | Turbidity (NTU) | DO (mg/l) | Salinity (%) | Other ORP |
|---|---|---|---|---|---|---|---|---|
| Date: 8/21/12 | | | | | | | | |
| Time: 1105 | | | | | | | | |
| Method: | Clear | 7.13 | 0.642 | 22.37 | 46.3 | 1.70 | 0.33 | -69.4 |

**PURGE DATA:**

| | Volume | pH | S.C. | Temp. | Turbidity | DO | Salinity | Other |
|---|---|---|---|---|---|---|---|---|
| Date: 8-21-12 | | | | | | | | |
| Method: Masoon Pump | | See Low Flow Purge Data Sheet | | | | | | |
| Monitor Reading (ppm): — | | | | | | | | |
| Well Casing Diameter & Material Type: 2" PVC | | | | | | | | |
| Total Well Depth (TD): 44.40 | | | | | | | | |
| Static Water Level (WL): 1.05 | | | | | | | | |
| One Casing Volume(gal/L): | | | | | | | | |
| Start Purge (hrs): 1004 | | | | | | | | |
| End Purge (hrs): 1130 | | | | | | | | |
| Total Purge Time (min): 81 | | | | | | | | |
| Total Vol. Purged (gal/L): 3 gal | | | | | | | | |

**SAMPLE COLLECTION INFORMATION:**

| Analysis | Preservative | Container Requirements | Collected |
|---|---|---|---|
| VOCs | HCl | 3-40 mL vials | |
| TPH-GRO | HCl | 3-40 mL vials | |
| TPH-DRO | none | 2-1L ambers | |
| SVOCs / 1,4-dioxane | none | 2-1L ambers | |
| Total Metals | $HNO_3$ | 1-500 mL plastic bottle | |
| Dissolved Metals | $HNO_3$ | 1-500 mL plastic bottle | |
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**OBSERVATIONS / NOTES:**

**Circle if Applicable:**

MS/MSD | Duplicate ID No.:

Signature(s):

~~1639~~

~~1187~~

# LOW FLOW PURGE DATA SHEET

**PROJECT SITE NAME:** Moon Terminal GW Sampling
**PROJECT NUMBER:**
**WELL ID.:** MT-MW-115
**DATE:** 8/21/12

| Time (Hrs.) | Water Level (Ft. below TOC) | Flow (mL/Min.) | pH (S.U.) | Ş. Cond. (mS/cm) | Turb. (NTU) | DO (mg/L) | Temp. (Celcius) | ORP mV | Salinity % or ppt | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| 1009 | 1.05 | - | - | - | - | - | - | - | - | |
| 1014 | 2.99 | 700 | 7.07 | 0.651 | 1182 | 0.60 | 21.33 | -60.5 | 0.34 | |
| 1020 | 4.84 | 150 | 6.72 | 0.643 | 936 | 0.38 | 21.00 | -72.6 | 0.34 | |
| 1025 | 6.61 | 150 | 7.14 | 0.665 | 2.58 | 0.42 | 22.33 | -76.0 | 0.33 | |
| 1030 | 7.55 | 150 | 7.18 | 0.653 | 163 | 0.32 | 22.20 | -93.2 | 0.34 | |
| 1035 | 8.80 | | 7.11 | 0.629 | 97.7 | 0.30 | 21.24 | -79.0 | 0.33 | |
| 1040 | 9.98 | | 7.16 | 0.647 | 69.4 | 0.33 | 22.64 | -83.5 | 0.33 | |
| 1045 | 11.59 | | 7.15 | 0.631 | 50.7 | 0.28 | 21.60 | -79.9 | 0.33 | |
| 1050 | 13.0 | | 7.17 | 0.621 | 49.2 | 1.65 | 21.52 | -80.7 | 0.32 | |
| 1055 | 14.21 | | 7.01 | 0.615 | 74.8 | 1.41 | 20.56 | -68.1 | 0.33 | |
| 1100 | 14.81 | | 7.06 | 0.630 | 67.2 | 0.93 | 21.66 | -70.3 | 0.33 | |
| 1105 | 15.67 | | 7.13 | 0.642 | 46.3 | 1.70 | 22.27 | -69.4 | 0.33 | |
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**SIGNATURE(S):**

Tetra Tech

# GROUNDWATER SAMPLE LOG SHEET



Project Site Name: Main Terminal GW Sampling
Project No.:

- [ ] Domestic Well Data
- [x] Monitoring Well Data
- [ ] Other Well Type:
- [ ] QA Sample Type:

Sample ID No.: MT-MW125
Sample Location: MSA
Sampled By: SBC/JAM
C.O.C. No.:
Type of Sample:
- [ ] Low Concentration
- [ ] High Concentration

**SAMPLING DATA:**

| | Color (Visual) | pH (S.U.) | S.C. (mS/cm) | Temp. (°C) | Turbidity (NTU) | DO (mg/l) | Salinity (%) | Other ORP |
|---|---|---|---|---|---|---|---|---|
| Date: 8/21/12 | | | | | | | | |
| Time: 1505 | | | | | | | | |
| Method: | Colorless | 6.20 | 0.449 | 23.29 | 72.3 | 0.23 | 0.18 | -5.2 |

**PURGE DATA:**

| | Volume | pH | S.C. | Temp. | Turbidity | DO | Salinity | Other |
|---|---|---|---|---|---|---|---|---|
| Date: 8/21/12 | | | | | | | | |
| Method: Monsoon | | | | | | | | |
| Monitor Reading (ppm): | | | | | | | | |
| Well Casing Diameter & Material Type: 2" PVC | | | See low flow purge sheet | | | | | |
| Total Well Depth (TD): 34.43 | | | | | | | | |
| Static Water Level (WL): 2.52 | | | | | | | | |
| One Casing Volume(gal/L): | | | | | | | | |
| Start Purge (hrs): 1420 | | | | | | | | |
| End Purge (hrs): 1530 | | | | | | | | |
| Total Purge Time (min): 70 | | | | | | | | |
| Total Vol. Purged (gal/L): 3 | | | | | | | | |

**SAMPLE COLLECTION INFORMATION:**

| Analysis | Preservative | Container Requirements | Collected |
|---|---|---|---|
| VOCs | HCl | 3-40 mL vials | |
| TPH-GRO | HCl | 3-40 mL vials | |
| TPH-DRO | None | 2-1L ambers | |
| SVOCs/1,4-Dioxane | None | 2-1L ambers | |
| Total Metals | HNO3 | 1-500 mL plastic bottle | |
| Dissolved Metals | HNO3 | 1-500 mL plastic bottle | |

**OBSERVATIONS / NOTES:**

**Circle if Applicable:**

| MS/MSD | Duplicate ID No.: | Signature(s): |
|---|---|---|
| | | |

# LOW FLOW PURGE DATA SHEET

**PROJECT SITE NAME:** Mesa Terminal GW Sampling
**PROJECT NUMBER:**

**WELL ID.:** MT-MW-125
**DATE:** 8/21/12

| Time (Hrs.) | Water Level (Ft. below TOC) | Flow (mL/Min.) | pH (S.U.) | S. Cond. (mS/cm) | Turb. (NTU) | DO (mg/L) | Temp. (Celcius) | ORP mV | Salinity % or ppt | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| 1420 | 2.52 | - | - | - | - | - | - | - | - | |
| 1425 | 4.13 | 150 | 6.15 | 0.935 | 336 | 0.89 | 22.92 | 34.4 | 0.48 | |
| 1430 | 5.19 | | 6.14 | 0.974 | 241 | 0.47 | 24.27 | 23.4 | 0.49 | |
| 1435 | 5.95 | | 6.21 | 0.973 | 226 | 0.34 | 24.03 | 12.9 | 0.49 | |
| 1440 | 6.88 | | 6.22 | 0.974 | 153 | 0.29 | 24.26 | 3.1 | 0.49 | |
| 1445 | 8.04 | | 6.21 | 0.963 | 105 | 0.22 | 23.95 | -3.5 | 0.48 | |
| 1450 | 8.86 | | 6.19 | 0.932 | 91.6 | 0.29 | 22.89 | -6.8 | 0.48 | |
| 1455 | 9.71 | | 6.17 | 0.940 | 82.0 | 0.24 | 23.12 | -5.8 | 0.48 | |
| 1500 | 10.54 | | 6.20 | 0.949 | 77.3 | 0.23 | 23.24 | -5.9 | 0.48 | |
| | | | | Begin Sampling | | 1505 | | | | |

**SIGNATURE(S):**

# APPENDIX E—
# GROUNDWATER MONITORING WELL SURVEY REPORT AND GPS-LOCATION FILE

Groundwater Monitoring Well Survey Report and GPS Location File
Main Terminal Area
Martin State Airport

## Main Terminal Area Monitoring Wells

| Well ID | Northing | Easting | Top of Well Casing Elevation | Top of PVC Elevation | Ground Elevation* | Stick-up Height | Site | Survey Date |
|---|---|---|---|---|---|---|---|---|
| MT-MW07S | 606341.494 | 1475342.990 | 17.269 | 16.89 | 17.269 | Flushmount | Main Terminal (MT) | 8/6/2012 |
| MT-MW08S | 606423.753 | 1475339.420 | 18.571 | 18.19 | 18.571 | Flushmount | Main Terminal (MT) | 8/6/2012 |
| MT-MW09S | 605418.897 | 1476158.936 | 15.672 | 15.33 | 15.672 | Flushmount | Main Terminal (MT) | 8/6/2012 |
| MT-MW10S | 605210.474 | 1475840.717 | 15.350 | 15.1 | 15.350 | Flushmount | Main Terminal (MT) | 8/6/2012 |
| MT-MW11S | 605510.210 | 1475715.166 | 7.561 | 7.33 | 7.561 | Flushmount | Main Terminal (MT) | 8/6/2012 |
| MT-MW12S | 605591.707 | 1475754.020 | 7.872 | 7.55 | 7.872 | Flushmount | Main Terminal (MT) | 8/6/2012 |
| | | | | | | | | |
| * For flushmount monitoring wells the ground elevation is the same as the top of casing elevation. | | | | | | | | |
| **Horizontal Datum: MDSPCS NAD83 IN FEET Vertical Datum: NAVD88 IN FEET** | | | | | | | | |
| **Reference control Martair Az** | | | | | | | | |
| | | | | | | | | |

# APPENDIX F—INVESTIGATION-DERIVED WASTE DOCUMENTATION

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) D44 PW Form Approved. OMB No. 2050-0039

**UNIFORM HAZARDOUS WASTE MANIFEST**

| 1. Generator ID Number | 2. Page 1 of | 3. Emergency Response Phone | 4. Manifest Tracking Number |
|---|---|---|---|
| | 1 | | 005563687 FLE |

**GENERATOR**

5. Generator's Name and Mailing Address

Generator's Phone:

5. Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: Clean Harbors Environmental Services Inc — U.S. EPA ID Number: MAD039322260

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Facility's Phone:

| 9a. HM | 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) | 10. Containers No. | 10. Containers Type | 11. Total Quantity | 12. Unit Wt./Vol. | 13. Waste Codes |
|---|---|---|---|---|---|---|
| | 1. NON D.O.T. REGULATED (SOIL) | 021 | DM | | P | NONE |
| | 2. NON HAZARDOUS, NON D.O.T. REGULATED | 001 | DM | 00600 | | NONE |
| | 3. ~~NON HAZARDOUS, NON REGULATED~~ | | | | | |
| | 4. | | | | | |

14. Special Handling Instructions and Additional Information

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Michelle — Signature — Month: 12 — Day: 2 — Year:

**INT'L**

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

**TRANSPORTER**

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Daniel Brooks — Signature: Daniel Brooks — Month: 10 — Day: 12 — Year: 12

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

**DESIGNATED FACILITY**

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month — Day — Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

| 1. | 2. | 3. | 4. |
|---|---|---|---|
| | | | |

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name — Signature — Month — Day — Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. GENERATOR'S INITIAL COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

**UNIFORM HAZARDOUS WASTE MANIFEST**

| 1. Generator ID Number | 2. Page 1 of | 3. Emergency Response Phone | 4. Manifest Tracking Number |
|---|---|---|---|
| MDD000524413 | 1 | (800) 424-9300 | 005563688 FLE |

**GENERATOR**

5. Generator's Name and Mailing Address
Lockheed Martin
196 Chesapeake Park Plaza
Middle River, MD 21220
Generator's Phone: (301) 572-7021

Generator's Site Address (if different than mailing address)
Lockheed Martin Corporation - Middle River
Medication
[illegible] Eastern Blvd
[illegible] 21220

6. Transporter 1 Company Name
Clean Harbors Environmental Services Inc

U.S. EPA ID Number
MAD039322250

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Clean Harbors Env Services Inc
2900 Rockefeller Avenue
Cleveland OH 44115
Facility's Phone: (216) 252-2122

U.S. EPA ID Number
OHD000724153

| 9a. HM | 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) | 10. Containers No. | 10. Containers Type | 11. Total Quantity | 12. Unit Wt./Vol. | 13. Waste Codes | | |
|---|---|---|---|---|---|---|---|---|
| | 1. NON D.O.T. REGULATED, (NON-HAZ WATER) | 016 (01) | DM | 016 (01) | | NONE | | |
| | 2. | | | | | | | |
| | 3. | | | | | | | |
| | 4. | | | | | | | |

14. Special Handling Instructions and Additional Information
1. CH244311 (16 by 55)

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Michael Mushero
Signature: Michael Mushero
Month: 10 Day: 12 Year: 12

**INT'L**

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

**TRANSPORTER**

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: [illegible]
Signature: [illegible]
Month: 10 Day: 12 Year: 12

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

**DESIGNATED FACILITY**

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

| 1. | 2. | 3. | 4. |
|---|---|---|---|
| H077 | | | |

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name:
Signature:
Month: Day: Year:

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

**GENERATOR'S INITIAL COPY**

Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping.

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

**UNIFORM HAZARDOUS WASTE MANIFEST**

| 1. Generator ID Number | 2. Page 1 of | 3. Emergency Response Phone | 4. Manifest Tracking Number |
|---|---|---|---|
| MDR000855442 GA | 1 | (800) 483-3718 | 005558610 FLE |

**GENERATOR**

5. Generator's Name and Mailing Address

Lockheed Martin
195 Chrystnancy Parkway
Middle River, MD 21220
Generator's Phone: (410) 682-6021

Generator's Site Address (if different than mailing address)

2323 ~~Holbrook~~ Broadway GA
Middle River MD 21220

6. Transporter 1 Company Name: Clean Harbors Environmental Services Inc. — U.S. EPA ID Number: MAD982132750

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address

Clean Harbors Env. Services, Inc.
2400 Lockefield Avenue
Cleveland, OH 44113
Facility's Phone: 800-282-2402

U.S. EPA ID Number: OHD000724153

| 9a. HM | 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) | 10. Containers No. | 10. Containers Type | 11. Total Quantity | 12. Unit Wt./Vol. | 13. Waste Codes | | |
|---|---|---|---|---|---|---|---|---|
| | 1. NON DOT Regulated (Non-Hazardous) | 005 | DM | 02500 | P | NONE | | |
| | 2. | | | | | | | |
| | 3. | | | | | | | |
| | 4. | | | | | | | |

14. Special Handling Instructions and Additional Information

1. CN 244311 (7553)

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Michael Mushano — Signature: Michael Mushano — Month: 10 — Day: 12 — Year: 12

**INT'L**

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

**TRANSPORTER**

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Gregory Moore — Signature — Month: 10 — Day: 12 — Year: 12

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

**DESIGNATED FACILITY**

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month — Day — Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

| 1. | 2. | 3. | 4. |
|---|---|---|---|
| | | | |

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name — Signature — Month — Day — Year

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

| UNIFORM HAZARDOUS WASTE MANIFEST | 1. Generator ID Number | 2. Page 1 of | 3. Emergency Response Phone | 4. Manifest Tracking Number |
|---|---|---|---|---|
| | | | | 005558609 FLE |

**GENERATOR**

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Facility's Phone:

| 9a. HM | 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) | 10. Containers No. | 10. Containers Type | 11. Total Quantity | 12. Unit Wt./Vol. | 13. Waste Codes |
|---|---|---|---|---|---|---|
| | 1. | COS | DM | | F | NONE |
| | 2. | | | | | |
| | 3. | | | | | |
| | 4. | | | | | |

14 Special Handling Instructions and Additional Information

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Michael Mysheno — Signature — Month 10 Day 12 Year 12

**INT'L**

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter signature (for exports only): Date leaving U.S.:

**TRANSPORTER**

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Gregory Avonce — Signature — Month 10 Day 12 Year 12

Transporter 2 Printed/Typed Name — Signature — Month Day Year

**DESIGNATED FACILITY**

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

| 1. | 2. | 3. | 4. |
|---|---|---|---|
| | | | |

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name — Signature — Month Day Year

# APPENDIX G—DATA QUALITY REVIEW AND DATA VALIDATION REPORTS

# Data Quality Review

Data quality indicators (DQIs) are parameters that are monitored to help establish the quality of data generated during an investigation. Individually, DQIs provide measures of the performance of the laboratory. During data validation, individual quality control (QC) results were evaluated. If individual QC results were acceptable, no validation flag was assigned to an analytical result, otherwise a flag indicating the type of QC deficiency was assigned to the result. Rejected data are not acceptable for performing risk assessments.

**Completeness**

Usable, valid samples (or results) were those judged, after data assessment, to represent the sampling populations and to have not been disqualified for use through data validation or additional data review. Completeness was determined using the following equation:

$$\%C = \frac{V}{T} \times 100$$

where %C = percent completeness
V = number of samples (or results) determined to be valid
T = total number of planned samples (or results)

The percent completeness for sample collection was 100.
All analytical fractions had 100 percent completeness except for the following:

| MATRIX | ANALYTICAL FRACTION | TOTAL NUMBER OF DATA POINTS | REJECTED DATA POINTS | ANALYTICAL PERCENT COMPLETENESS |
|---|---|---|---|---|
| WATER | Volatile organic compounds | 1,008 | 28 | 97.2 |
| SOIL | Volatile organic compounds | 720 | 26 | 96.4 |
| SOIL | Semivolatile organic compounds | 670 | 1 | 99.9 |

All water and soil data points for vinyl acetate and tertiary-butyl alcohol were rejected due to calibration response factors less than 0.05. Six of ten soil data points for 2-chloroethyl vinyl ether were rejected due to calibration response factors less than 0.05. One of ten soil data points for hexachlorocyclopentadiene was rejected due to a matrix spike recovery less than 10%.

**Laboratory Accuracy**

Laboratory accuracy was assessed by comparing calculated %R values to accuracy control limits specified by the laboratory using the appropriate analytical method.

Percent recovery is calculated using the following equation:

$$\%R = \frac{Ss - So}{S} \times 100$$

where %R = percent recovery
Ss = result of spiked sample
So = result of non-spiked sample
S = concentration of spiked amount.

Arsenic, lead, and copper detected results for several water samples were qualified as estimated biased high due to calibration noncompliances.

Arsenic and cobalt detected results for two soil samples were qualified as estimated biased low due to calibration noncompliances.

Chromium and vanadium detected results for several soil samples were qualified as estimated biased low due to matrix spike recovery noncompliance.

Antimony, selenium, silver, and thallium nondetected results for several soil samples were qualified as estimated biased low due to calibration and/or matrix spike recovery noncompliances.

Zinc detected result for one soil sample was qualified as estimated due to a calibration noncompliance.

Hexavalent chromium nondetected results for two water samples were qualified as estimated due to a hold time noncompliance.

Nickel detected results for several soil samples were qualified as estimated due to serial dilution noncompliances.

Carbon disulfide, naphthalene and total petroleum hydrocarbons [TPH] (C10-32) detected results for several soil samples were qualified as estimated due to calibration noncompliances.

Blank contamination was noted in both water and soil samples. The following parameters were qualified due to blank contamination:

- Water – antimony, copper, lead, molybdenum, silver, thallium, TPH (C06-C10), TPH (C10-C32) and zinc.
- Soil – antimony, beryllium, bis(2-ethylhexyl)phthalate, methylene chloride, molybdenum, naphthalene, n-butylbenzene and TPH (C10-C32).

With the exception of the few directional bias issues noted, there is no overall directional bias to the data.

**Laboratory Precision**

Precision is a measure of the degree to which two or more measurements are in agreement and describes the reproducibility of measurements of the same parameter for samples analyzed under similar conditions.

Precision for chemical parameters is expressed as a relative percent difference (RPD), which is defined as the ratio of the difference to the mean for the two values being evaluated. RPDs, typically expressed as percentages, are used to evaluate both field and laboratory duplicate precision and are calculated as follows:

$$RPD = \frac{|V1 - V2|}{(V1 + V2)/2} \times 100$$

where RPD = relative percent difference
V1, V2 = two results obtained by analyzing duplicate samples

All laboratory precision parameters met quality control limits.

### Comparability

Comparability is defined as the confidence with which one data set can be compared with another (e.g., among sampling points and among sampling events). Comparability was achieved by using standardized sampling and analysis methods, as well as standardized data reporting formats. Comparability of laboratory measurements was achieved primarily through the use and documentation of standard sampling and analytical methods. Results were reported in units that ensured comparability with previous data. Comparability of laboratory measurements was assessed primarily through the use of QC samples. No comparability issues were noted.

### Representativeness

Representativeness is an expression of the degree to which data accurately and precisely depict the actual characteristics of a population or environmental condition existing at the site.

The use of standardized sampling, sample handling, sample analysis, and data reporting procedures were designed so that the final data would be accurate representations of actual site conditions. It is believed that all reported data are adequately representative of site conditions and intended populations.

**Tetra Tech** **INTERNAL CORRESPONDENCE**

**TO:** **T. APANAVAGE** **DATE:** **JUNE 26, 2012**

**FROM:** **EDWARD SEDLMYER** **COPIES:** **DV FILE**

**SUBJECT:** **ORGANIC DATA VALIDATION – VOC / 1,4-DIOXANE / TOTAL PETROLEUM HYDROCARBONS / PERCHLORATE / SELECT METALS**
**MIDDLE RIVER COMPLEX – GROUNDWATER - FULL REVIEW**
**SAMPLE DELIVERY GROUP (SDG) 240-10598-1**

**SAMPLES:** 3/Aqueous/VOC/1,4-DIOXANE/SELECT METALS

MT-MW04S MT-MW06S TB-042412

Overview

The sample set for Middle River Complex - groundwater, SDG 240-10598-1 consists of two (2) environmental water samples and one (1) trip blank. The trip blank (TB-042412) was analyzed for volatile organic compounds (VOC) only. All other samples were analyzed for 1,4-dioxane, VOCs, total petroleum hydrocarbons, perchlorate, and select metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, tungsten, vanadium and zinc).

The samples were collected on April 24, 2012 and analyzed by Test America, North Canton. Volatile organic compound analyses were conducted in accordance with SW-846 Method 8260B. The semivolatile compound 1,4-dioxane analyses were conducted in accordance with SW-846 Method 8270D. The metals analyses were conducted in accordance with SW-846 Method 6020A and 7470A. The perchlorate analyses were conducted in accordance with SW-846 Method 6850.

Summary

The data contained in this SDG were validated with regard to the following parameters: data completeness, system performance, holding times, GC/MS tuning, initial / continuing calibrations, laboratory method blank results, surrogate spike/internal standard recoveries, laboratory control sample results, ICP interference results, ICP serial dilution results, laboratory duplicate results, matrix spike/matrix spike duplicate results, analyte identification, analyte quantitation, and detection limits.

Areas of concern with respect to data quality are listed below.

Major Problems

- The volatile initial calibration of instrument A3UX16 on 04/29/12 had a relative response factor (RRF) less than the 0.05 quality control limit for tert butyl alcohol. The nondetected results for tert butyl alcohol in all samples were rejected (UR).

- The volatile continuing calibration analyzed on instrument A3UX16 on 04/30/12 @11:50 had RRFs less than the 0.05 quality control limit for tert butyl alcohol and vinyl acetate. The nondetected results for tert butyl alcohol and vinyl acetate in all samples were rejected (UR).

- The silanol tentatively identified compound (triimethyl silanol) was rejected (R) for sample TB-042412. This compound is indicative of column bleed.

Minor Problems

- The following compounds were detected in the VOC method blank at the concentrations indicated below:

| Compound | Concentration | Action Level |
|---|---|---|
| 1,2,3-Trichlorobenzene[1] | 0.288 ug/L | 1.44 ug/L |
| Methylcyclohexane[2] | 0.197 ug/L | 0.985 ug/L |

1 – Compound detected in method blank (MB 240-42171/5) affecting all samples.
2 – Methycyclohexane was reported as a tentatively identified compound (TIC) in the method blank.

An action level of 5X the maximum contaminant concentration was established to evaluate laboratory contamination for 1,2,3-trichloroethene and methylcyclohexane. Dilution factors and sample aliquots were taken into consideration during the application of all action levels. The methylcyclohexane detection for sample MT-MW04S was qualified (B) as a result of blank contamination. No action was taken on the trip blank because field quality control samples are not qualified for blank contamination.

- The gasoline range organic TPH (C6-C10) was detected in the method blank at the concentration indicated below:

| Compound | Concentration | Action Level |
|---|---|---|
| TPH (C6-C10)[1] | 32.9 ug/L | 164.5 ug/L |

1 – Compound detected in method blank (MB 240-42055/7) affecting all samples.

An action level of 5X the maximum contaminant concentration was established to evaluate laboratory contamination for TPH (C6-C10). Dilution factors and sample aliquots were taken into consideration during the application of the action level. The TPH (C6-C10) detections for all samples were qualified (B) as a result of blank contamination.

- The diesel range organic TPH (C10-C32) was detected in the method blank at the concentration indicated below:

| Compound | Concentration | Action Level |
|---|---|---|
| TPH (C10-C32)[1] | 422 ug/L | 2,110 ug/L |

1 – Compound detected in method blank (MB 240-41890/15) affecting all samples.

An action level of 5X the maximum contaminant concentration was established to evaluate laboratory contamination for TPH (C10-C32). Dilution factors and sample aliquots were taken into consideration during the application of the action level. The TPH (C10-C32) detections for all samples were qualified (B) as a result of blank contamination.

- The reporting limit (RL) percent recoveries for arsenic, copper, nickel, silver, and thallium were > 110% quality control limit affecting all samples. The positive results < 2X RL for arsenic in all samples were qualified as estimated, (J), as a result of conflicting noncompliances.

- The following contaminants were detected in the metals laboratory method/preparation blanks at the following maximum concentrations:

| Analyte | Maximum Concentration | Action Level |
|---|---|---|
| Antimony | 0.159 ug/L | 0.795 ug/L |
| Barium[(1)] | 2.10 ug/L | 10.5 ug/L |
| Cobalt | 0.093 ug/L | 0.465 ug/L |
| Copper[(1)] | 1.32 ug/L | 6.6 ug/L |
| Lead[(1)] | 0.268 ug/L | 1.34 ug/L |
| Molybdenum | 0.558 ug/L | 2.79 ug/L |
| Thallium | 0.899 ug/L | 4.495 ug/L |
| Zinc[(1)] | 13.7 ug/L | 68.5 ug/L |

  [(1)] Maximum concentration present in a preparation blank.

  An action level of 5X the maximum contaminant level has been used to evaluate sample data for blank contamination. Sample aliquot and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. The positive results less than the blank action level reported for antimony, copper, molybdenum, thallium and zinc were qualified "B" as a result of laboratory blank contamination.

- Positive results reported below the reporting limit (RL) but above the method detection limit (MDL) for the organic analyses were qualified as estimated, (J).

Notes

The matrix spike / matrix spike duplicate (MS/MSD) performed on sample MSA-MW15D-041812 had a zero percent recovery for 2-chloroethyl vinyl ether in the MS and MSD. In addition, the relative percent difference for tert butyl alcohol exceeded the quality control limit. No action was taken on this basis because sample MSA-MW15D-041812 is contained in another SDG.

The nondetected results were reported to the method detection limit.

EXECUTIVE SUMMARY

**Laboratory Performance Issues:** Blank contamination resulted in qualification of VOC, TPH, and METALS data. Two volatile compounds had RRFs less than the quality control limits in the initial and continuing calibrations resulting in the rejection of data. The RL percent recovery for arsenic resulted in qualification of the data. The TIC silanol compound was rejected.

**Other Factors Affecting Data Quality:** Positive results reported below the reporting limit (RL) but above the method detection limit (MDL) for the organic analyses were qualified as estimated, (J).

The data for these analyses were reviewed with reference to the Region III EPA Functional Guidelines for Organic Data Validation (September 1994) and Region III modifications to the National Functional Guidelines for Inorganic Data Validation (April 1993).

The text of this report has been formulated to address only those problem areas affecting data quality.

Tetra Tech
Edward Sedlmyer
Chemist/Data Validator

TetraTech
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:
Appendix A – Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
Appendix C – Support Documentation

**Appendix A**

Qualified Analytical Results

**Qualifier Codes:**

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = ICP PDS Recovery Noncompliance; MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = RPD between columns/detectors >40% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity
Z1 = Tentatively Identified Compound considered presumptively present
Z2 = Tentatively Identified Compound column bleed

| PROJ_NO: 04021 | NSAMPLE | MT-MW04S | | | MT-MW06S | | | TB-042412 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-10598-1 | LAB_ID | 240-10598-2 | | | 240-10598-3 | | | 240-10598-1 | | |
| FRACTION: OV | SAMP_DATE | 4/24/2012 | | | 4/24/2012 | | | 4/24/2012 | | |
| MEDIA: WATER | QC_TYPE | NM | | | NM | | | NM | | |
| | UNITS | UG/L | | | UG/L | | | UG/L | | |
| | PCT_SOLIDS | 0.0 | | | 0.0 | | | 0.0 | | |
| | DUP_OF | | | | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| 1,1,1,2-TETRACHLOROETHANE | | 0.23 | U | | 0.23 | U | | 0.23 | U | |
| 1,1,1-TRICHLOROETHANE | | 0.22 | U | | 0.22 | U | | 0.22 | U | |
| 1,1,2,2-TETRACHLOROETHANE | | 0.18 | U | | 0.18 | U | | 0.18 | U | |
| 1,1,2-TRICHLOROTRIFLUOROETHANE | | 0.28 | U | | 0.28 | U | | 0.28 | U | |
| 1,1-DICHLOROETHANE | | 0.15 | U | | 0.15 | U | | 0.15 | U | |
| 1,1-DICHLOROETHENE | | 0.19 | U | | 0.19 | U | | 0.19 | U | |
| 1,1-DICHLOROPROPENE | | 0.13 | U | | 0.13 | U | | 0.13 | U | |
| 1,2,3-TRICHLOROBENZENE | | 0.17 | U | | 0.17 | U | | 0.17 | U | |
| 1,2,3-TRICHLOROPROPANE | | 0.43 | U | | 0.43 | U | | 0.43 | U | |
| 1,2,3-TRIMETHYLBENZENE | | 0.0059 | U | | 0.0059 | U | | 0.0059 | U | |
| 1,2,4-TRICHLOROBENZENE | | 0.15 | U | | 0.15 | U | | 0.15 | U | |
| 1,2,4-TRIMETHYLBENZENE | | 0.12 | U | | 0.12 | U | | 0.12 | U | |
| 1,2-DIBROMO-3-CHLOROPROPANE | | 0.67 | U | | 0.67 | U | | 0.67 | U | |
| 1,2-DIBROMOETHANE | | 0.24 | U | | 0.24 | U | | 0.24 | U | |
| 1,2-DICHLOROBENZENE | | 0.13 | U | | 0.13 | U | | 0.13 | U | |
| 1,2-DICHLOROETHANE | | 0.22 | U | | 0.22 | U | | 0.22 | U | |
| 1,2-DICHLOROPROPANE | | 0.18 | U | | 0.18 | U | | 0.18 | U | |
| 1,3-DICHLOROBENZENE | | 0.14 | U | | 0.14 | U | | 0.14 | U | |
| 1,3-DICHLOROPROPANE | | 0.16 | U | | 0.16 | U | | 0.16 | U | |
| 1,4-DICHLOROBENZENE | | 0.13 | U | | 0.13 | U | | 0.13 | U | |
| 2,2-DICHLOROPROPANE | | 0.13 | U | | 0.13 | U | | 0.13 | U | |
| 2-BUTANONE | | 0.57 | U | | 0.57 | U | | 0.57 | U | |
| 2-CHLOROETHYL VINYL ETHER | | 0.99 | U | | 0.99 | U | | 0.99 | U | |
| 2-CHLOROTOLUENE | | 0.11 | U | | 0.11 | U | | 0.11 | U | |
| 2-HEXANONE | | 0.41 | U | | 0.41 | U | | 0.41 | U | |
| 4-CHLOROTOLUENE | | 0.18 | U | | 0.18 | U | | 0.18 | U | |
| 4-ISOPROPYLTOLUENE | | 0.12 | U | | 0.12 | U | | 0.12 | U | |
| 4-METHYL-2-PENTANONE | | 0.32 | U | | 0.32 | U | | 0.32 | U | |
| ACETONE | | 1.1 | U | | 1.1 | U | | 1.1 | U | |
| BENZENE | | 0.13 | U | | 0.13 | U | | 0.13 | U | |
| BROMOBENZENE | | 0.13 | U | | 0.13 | U | | 0.13 | U | |
| BROMOCHLOROMETHANE | | 0.29 | U | | 0.29 | U | | 0.29 | U | |
| BROMODICHLOROMETHANE | | 0.15 | U | | 0.15 | U | | 0.15 | U | |
| BROMOFORM | | 0.64 | U | | 0.64 | U | | 0.64 | U | |
| BROMOMETHANE | | 0.41 | U | | 0.41 | U | | 0.41 | U | |

| PROJ_NO: 04021 | NSAMPLE | MT-MW04S | | | MT-MW06S | | | TB-042412 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-10598-1 | LAB_ID | 240-10598-2 | | | 240-10598-3 | | | 240-10598-1 | | |
| FRACTION: OV | SAMP_DATE | 4/24/2012 | | | 4/24/2012 | | | 4/24/2012 | | |
| MEDIA: WATER | QC_TYPE | NM | | | NM | | | NM | | |
| | UNITS | UG/L | | | UG/L | | | UG/L | | |
| | PCT_SOLIDS | 0.0 | | | 0.0 | | | 0.0 | | |
| | DUP_OF | | | | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| CARBON DISULFIDE | | 0.13 | U | | 0.13 | U | | 0.13 | U | |
| CARBON TETRACHLORIDE | | 0.13 | U | | 0.13 | U | | 0.13 | U | |
| CHLOROBENZENE | | 0.15 | U | | 0.15 | U | | 0.15 | U | |
| CHLORODIBROMOMETHANE | | 0.18 | U | | 0.18 | U | | 0.18 | U | |
| CHLOROETHANE | | 0.29 | U | | 0.29 | U | | 0.29 | U | |
| CHLOROFORM | | 0.62 | J | P | 0.16 | U | | 0.16 | U | |
| CHLOROMETHANE | | 0.3 | U | | 0.47 | J | P | 0.3 | U | |
| CIS-1,2-DICHLOROETHENE | | 0.17 | U | | 0.17 | U | | 0.17 | U | |
| CIS-1,3-DICHLOROPROPENE | | 0.14 | U | | 0.14 | U | | 0.14 | U | |
| DIBROMOMETHANE | | 0.28 | U | | 0.28 | U | | 0.28 | U | |
| DICHLORODIFLUOROMETHANE | | 0.31 | U | | 0.31 | U | | 0.31 | U | |
| DIISOPROPYL ETHER | | 1.5 | U | | 1.5 | U | | 1.5 | U | |
| ETHYL TERT-BUTYL ETHER | | 0.11 | U | | 0.11 | U | | 0.11 | U | |
| ETHYLBENZENE | | 0.17 | U | | 0.17 | U | | 0.17 | U | |
| HEXACHLOROBUTADIENE | | 0.3 | U | | 0.3 | U | | 0.3 | U | |
| ISOPROPYLBENZENE | | 0.13 | U | | 0.13 | U | | 0.13 | U | |
| M+P-XYLENES | | 0.24 | U | | 0.24 | U | | 0.24 | U | |
| METHYL TERT-BUTYL ETHER | | 0.17 | U | | 0.17 | U | | 0.17 | U | |
| METHYLCYCLOHEXANE | | 0.13 | B | Z1 | | | | 0.16 | J | Z1 |
| METHYLENE CHLORIDE | | 0.33 | U | | 0.33 | U | | 0.33 | U | |
| NAPHTHALENE | | 0.24 | U | | 0.24 | U | | 0.24 | U | |
| N-BUTYLBENZENE | | 0.12 | U | | 0.12 | U | | 0.12 | U | |
| N-PROPYLBENZENE | | 0.14 | U | | 0.14 | U | | 0.14 | U | |
| O-XYLENE | | 0.14 | U | | 0.14 | U | | 0.14 | U | |
| SEC-BUTYLBENZENE | | 0.13 | U | | 0.13 | U | | 0.13 | U | |
| SILANOL, TRIMETHYL- | | | | | | | | 1.3 | R | Z2 |
| STYRENE | | 0.11 | U | | 0.11 | U | | 0.11 | U | |
| TERT-AMYL METHYL ETHER | | 0.067 | U | | 0.067 | U | | 0.067 | U | |
| TERT-BUTYLBENZENE | | 0.13 | U | | 0.13 | U | | 0.13 | U | |
| TERTIARY-BUTYL ALCOHOL | | 3.9 | UR | C | 3.9 | UR | C | 3.9 | UR | C |
| TETRACHLOROETHENE | | 0.29 | U | | 0.29 | U | | 0.29 | U | |
| TOLUENE | | 0.13 | U | | 0.13 | U | | 0.13 | U | |
| TOTAL XYLENES | | 0.28 | U | | 0.28 | U | | 0.28 | U | |
| TRANS-1,2-DICHLOROETHENE | | 0.19 | U | | 0.19 | U | | 0.19 | U | |
| TRANS-1,3-DICHLOROPROPENE | | 0.19 | U | | 0.19 | U | | 0.19 | U | |

| PROJ_NO: 04021 | NSAMPLE | MT-MW04S | | | MT-MW06S | | | TB-042412 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-10598-1 | LAB_ID | 240-10598-2 | | | 240-10598-3 | | | 240-10598-1 | | |
| FRACTION: OV | SAMP_DATE | 4/24/2012 | | | 4/24/2012 | | | 4/24/2012 | | |
| MEDIA: WATER | QC_TYPE | NM | | | NM | | | NM | | |
| | UNITS | UG/L | | | UG/L | | | UG/L | | |
| | PCT_SOLIDS | 0.0 | | | 0.0 | | | 0.0 | | |
| | DUP_OF | | | | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| TRICHLOROETHENE | | 0.17 | U | | 0.17 | U | | 0.17 | U | |
| TRICHLOROFLUOROMETHANE | | 0.21 | U | | 0.21 | U | | 0.21 | U | |
| VINYL ACETATE | | 0.19 | UR | C | 0.19 | UR | C | 0.19 | UR | C |
| VINYL CHLORIDE | | 0.22 | U | | 0.22 | U | | 0.22 | U | |

| PROJ_NO: 04021 | NSAMPLE | MT-MW04S | | | MT-MW06S | | |
|---|---|---|---|---|---|---|---|
| SDG: 240-10598-1 | LAB_ID | 240-10598-2 | | | 240-10598-3 | | |
| FRACTION: OS | SAMP_DATE | 4/24/2012 | | | 4/24/2012 | | |
| MEDIA: WATER | QC_TYPE | NM | | | NM | | |
| | UNITS | UG/L | | | UG/L | | |
| | PCT_SOLIDS | 0.0 | | | 0.0 | | |
| | DUP_OF | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| 1,4-DIOXANE | | 0.49 | U | | 0.5 | U | |

| PROJ_NO: 04021 | NSAMPLE | MT-MW04S | | | MT-MW06S | | |
|---|---|---|---|---|---|---|---|
| SDG: 240-10598-1 | LAB_ID | 240-10598-2 | | | 240-10598-3 | | |
| FRACTION: PET | SAMP_DATE | 4/24/2012 | | | 4/24/2012 | | |
| MEDIA: WATER | QC_TYPE | NM | | | NM | | |
| | UNITS | UG/L | | | UG/L | | |
| | PCT_SOLIDS | 0.0 | | | 0.0 | | |
| | DUP_OF | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| TPH (C06-C10) | | 49 | B | A | 64 | B | A |
| TPH (C10-C32) | | 440 | B | A | 480 | B | A |

| PROJ_NO: 04021 | NSAMPLE | MT-MW04S | | | MT-MW06S | | |
|---|---|---|---|---|---|---|---|
| SDG: 240-10598-1 | LAB_ID | 240-10598-2 | | | 240-10598-3 | | |
| FRACTION: MISC | SAMP_DATE | 4/24/2012 | | | 4/24/2012 | | |
| MEDIA: WATER | QC_TYPE | NM | | | NM | | |
| | UNITS | UG/L | | | UG/L | | |
| | PCT_SOLIDS | 0.0 | | | 0.0 | | |
| | DUP_OF | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| PERCHLORATE | | 0.082 | U | | 0.16 | J | P |

| PROJ_NO: 04021 | NSAMPLE | MT-MW04S | | | MT-MW06S | | |
|---|---|---|---|---|---|---|---|
| SDG: 240-10598-1 | LAB_ID | 240-10598-2 | | | 240-10598-3 | | |
| FRACTION: M | SAMP_DATE | 4/24/2012 | | | 4/24/2012 | | |
| MEDIA: WATER | QC_TYPE | NM | | | NM | | |
| | UNITS | UG/L | | | UG/L | | |
| | PCT_SOLIDS | 0.0 | | | 0.0 | | |
| | DUP_OF | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| ANTIMONY | | 0.13 | U | | 0.13 | U | |
| ARSENIC | | 0.71 | J | CP | 1.5 | J | CP |
| BARIUM | | 76 | | | 96 | | |
| BERYLLIUM | | 3.3 | | | 81 | | |
| CADMIUM | | 0.14 | J | P | 2 | | |
| CHROMIUM | | 0.71 | U | | 0.71 | U | |
| COBALT | | 210 | | | 540 | | |
| COPPER | | 43 | | | 46 | | |
| LEAD | | 0.71 | B | A | 2.3 | | |
| MERCURY | | 0.12 | U | | 0.12 | U | |
| MOLYBDENUM | | 0.093 | U | | 0.15 | B | A |
| NICKEL | | 330 | | | 1200 | | |
| SELENIUM | | 0.57 | U | | 1.2 | J | P |
| SILVER | | 0.08 | U | | 0.08 | U | |
| THALLIUM | | 0.16 | B | A | 0.77 | B | A |
| TUNGSTEN | | 0.37 | U | | 0.37 | U | |
| VANADIUM | | 0.44 | U | | 0.44 | U | |
| ZINC | | 340 | | | 1900 | | |

| PROJ_NO: 04021 | NSAMPLE | MT-MW04S | | | MT-MW06S | | |
|---|---|---|---|---|---|---|---|
| SDG: 240-10598-1 | LAB_ID | 240-10598-2 | | | 240-10598-3 | | |
| FRACTION: MF | SAMP_DATE | 4/24/2012 | | | 4/24/2012 | | |
| MEDIA: WATER | QC_TYPE | NM | | | NM | | |
| | UNITS | UG/L | | | UG/L | | |
| | PCT_SOLIDS | 0.0 | | | 0.0 | | |
| | DUP_OF | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| ANTIMONY | | 0.21 | B | A | 0.13 | U | |
| ARSENIC | | 0.69 | J | CP | 1.3 | J | CP |
| BARIUM | | 76 | | | 94 | | |
| BERYLLIUM | | 3.1 | | | 80 | | |
| CADMIUM | | 0.23 | J | P | 2.1 | | |
| CHROMIUM | | 0.71 | U | | 0.71 | U | |
| COBALT | | 200 | | | 530 | | |
| COPPER | | 44 | | | 48 | | |
| LEAD | | 0.64 | B | A | 2.3 | | |
| MERCURY | | 0.12 | U | | 0.12 | U | |
| MOLYBDENUM | | 0.55 | B | A | 0.093 | U | |
| NICKEL | | 320 | | | 1200 | | |
| SELENIUM | | 0.57 | U | | 0.63 | J | P |
| SILVER | | 0.08 | U | | 0.08 | U | |
| THALLIUM | | 1.3 | B | A | 0.57 | B | A |
| TUNGSTEN | | 0.78 | J | P | 0.37 | U | |
| VANADIUM | | 0.44 | U | | 0.44 | U | |
| ZINC | | 330 | | | 1900 | | |

## Appendix B

Results as Reported by the Laboratory

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Client Sample ID: MT-MW04S Lab Sample ID: 240-10598-2

Matrix: Water Lab File ID: UXM5278.D

Analysis Method: 8260C Date Collected: 04/24/2012 11:30

Sample wt/vol: 5(mL) Date Analyzed: 04/30/2012 15:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 42171 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.23 |
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 1.0 | 0.22 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.18 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trichfluoroeth ane | 1.0 | U | 1.0 | 0.28 |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.15 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.19 |
| 563-58-6 | 1,1-Dichloropropene | 1.0 | U | 1.0 | 0.13 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 1.0 | 0.17 |
| 96-18-4 | 1,2,3-Trichloropropane | 1.0 | U | 1.0 | 0.43 |
| 526-73-8 | 1,2,3-Trimethylbenzene | 5.0 | U | 5.0 | 0.0059 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.15 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.12 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 2.0 | U | 2.0 | 0.67 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.13 |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.22 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.18 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.14 |
| 142-28-9 | 1,3-Dichloropropane | 1.0 | U | 1.0 | 0.16 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.13 |
| 594-20-7 | 2,2-Dichloropropane | 1.0 | U | 1.0 | 0.13 |
| 110-75-8 | 2-Chloroethyl vinyl ether | 10 | U | 10 | 0.99 |
| 95-49-8 | 2-Chlorotoluene | 1.0 | U | 1.0 | 0.11 |
| 591-78-6 | 2-Hexanone | 10 | U | 10 | 0.41 |
| 108-86-1 | Bromobenzene | 1.0 | U | 1.0 | 0.13 |
| 74-97-5 | Bromochloromethane | 1.0 | U | 1.0 | 0.29 |
| 106-43-4 | 4-Chlorotoluene | 1.0 | U | 1.0 | 0.18 |
| 99-87-6 | p-Isopropyltoluene | 1.0 | U | 1.0 | 0.12 |
| 67-64-1 | Acetone | 10 | U | 10 | 1.1 |
| 71-43-2 | Benzene | 1.0 | U | 1.0 | 0.13 |
| 75-25-2 | Bromoform | 1.0 | U | 1.0 | 0.64 |
| 74-83-9 | Bromomethane | 1.0 | U | 1.0 | 0.41 |
| 75-15-0 | Carbon disulfide | 1.0 | U | 1.0 | 0.13 |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 1.0 | 0.13 |
| 108-90-7 | Chlorobenzene | 1.0 | U | 1.0 | 0.15 |
| 75-00-3 | Chloroethane | 1.0 | U | 1.0 | 0.29 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-10598-1

SDG No.:

Client Sample ID: MT-MW04S | Lab Sample ID: 240-10598-2

Matrix: Water | Lab File ID: UXM5278.D

Analysis Method: 8260C | Date Collected: 04/24/2012 11:30

Sample wt/vol: 5(mL) | Date Analyzed: 04/30/2012 15:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 42171 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 67-66-3 | Chloroform | 0.62 | J | 1.0 | 0.16 |
| 74-87-3 | Chloromethane | 1.0 | U | 1.0 | 0.30 |
| 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.17 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.14 |
| 87-68-3 | Hexachlorobutadiene | 1.0 | U | 1.0 | 0.30 |
| 74-95-3 | Dibromomethane | 1.0 | U | 1.0 | 0.28 |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 1.0 | 0.15 |
| 75-71-8 | Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.31 |
| 100-41-4 | Ethylbenzene | 1.0 | U | 1.0 | 0.17 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.24 |
| 108-20-3 | Diisopropyl ether | 10 | U | 10 | 1.5 |
| 91-20-3 | Naphthalene | 1.0 | U | 1.0 | 0.24 |
| 179601-23-1 | m-Xylene & p-Xylene | 2.0 | U | 2.0 | 0.24 |
| 104-51-8 | n-Butylbenzene | 1.0 | U | 1.0 | 0.12 |
| 98-82-8 | Isopropylbenzene | 1.0 | U | 1.0 | 0.13 |
| 103-65-1 | n-Propylbenzene | 1.0 | U | 1.0 | 0.14 |
| 78-93-3 | 2-Butanone | 10 | U | 10 | 0.57 |
| 108-10-1 | 4-Methyl-2-pentanone | 10 | U | 10 | 0.32 |
| 135-98-8 | sec-Butylbenzene | 1.0 | U | 1.0 | 0.13 |
| 1634-04-4 | Methyl tert-butyl ether | 5.0 | U | 5.0 | 0.17 |
| 994-05-8 | Tert-amyl-methyl ether (TAME) | 5.0 | U | 5.0 | 0.067 |
| 75-09-2 | Methylene Chloride | 1.0 | U | 1.0 | 0.33 |
| 95-47-6 | o-Xylene | 1.0 | U | 1.0 | 0.14 |
| 100-42-5 | Styrene | 1.0 | U | 1.0 | 0.11 |
| 637-92-3 | Ethyl-t-butyl ether (ETBE) | 5.0 | U | 5.0 | 0.11 |
| 98-06-6 | tert-Butylbenzene | 1.0 | U | 1.0 | 0.13 |
| 127-18-4 | Tetrachloroethene | 1.0 | U | 1.0 | 0.29 |
| 108-88-3 | Toluene | 1.0 | U | 1.0 | 0.13 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.19 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.19 |
| 79-01-6 | Trichloroethene | 1.0 | U | 1.0 | 0.17 |
| 75-69-4 | Trichlorofluoromethane | 1.0 | U | 1.0 | 0.21 |
| 108-05-4 | Vinyl acetate | 2.0 | U | 2.0 | 0.19 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 1.0 | 0.22 |
| 75-65-0 | tert-Butyl alcohol | 50 | U | 50 | 3.9 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-10598-1

SDG No.:

Client Sample ID: MT-MW04S | Lab Sample ID: 240-10598-2

Matrix: Water | Lab File ID: UXM5278.D

Analysis Method: 8260C | Date Collected: 04/24/2012 11:30

Sample wt/vol: 5(mL) | Date Analyzed: 04/30/2012 15:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 42171 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 1330-20-7 | Xylenes, Total | 2.0 | U | 2.0 | 0.28 |
| 124-48-1 | Dibromochloromethane | 1.0 | U | 1.0 | 0.18 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 87 | | 63-129 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 95 | | 66-117 |
| 2037-26-5 | Toluene-d8 (Surr) | 89 | | 74-115 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 87 | | 75-121 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton  Job No.: 240-10598-1

SDG No.:

Client Sample ID: MT-MW04S  Lab Sample ID: 240-10598-2

Matrix: Water  Lab File ID: UXM5278.D

Analysis Method: 8260C  Date Collected: 04/24/2012 11:30

Sample wt/vol: 5(mL)  Date Analyzed: 04/30/2012 15:09

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 42171  Units: ug/L

Number TICs Found: 1  TIC Result Total: 0.13

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| | Tentatively Identified Compound | | None | |
| 108-87-2 | Methylcyclohexane | 6.21 | 0.13 | J B |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-10598-1

SDG No.:

Client Sample ID: MT-MW06S | Lab Sample ID: 240-10598-3

Matrix: Water | Lab File ID: UXM5279.D

Analysis Method: 8260C | Date Collected: 04/24/2012 14:57

Sample wt/vol: 5(mL) | Date Analyzed: 04/30/2012 15:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 42171 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.23 |
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 1.0 | 0.22 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.18 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trichfluoroeth ane | 1.0 | U | 1.0 | 0.28 |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.15 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.19 |
| 563-58-6 | 1,1-Dichloropropene | 1.0 | U | 1.0 | 0.13 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 1.0 | 0.17 |
| 96-18-4 | 1,2,3-Trichloropropane | 1.0 | U | 1.0 | 0.43 |
| 526-73-8 | 1,2,3-Trimethylbenzene | 5.0 | U | 5.0 | 0.0059 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.15 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.12 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 2.0 | U | 2.0 | 0.67 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.13 |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.22 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.18 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.14 |
| 142-28-9 | 1,3-Dichloropropane | 1.0 | U | 1.0 | 0.16 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.13 |
| 594-20-7 | 2,2-Dichloropropane | 1.0 | U | 1.0 | 0.13 |
| 110-75-8 | 2-Chloroethyl vinyl ether | 10 | U | 10 | 0.99 |
| 95-49-8 | 2-Chlorotoluene | 1.0 | U | 1.0 | 0.11 |
| 591-78-6 | 2-Hexanone | 10 | U | 10 | 0.41 |
| 108-86-1 | Bromobenzene | 1.0 | U | 1.0 | 0.13 |
| 74-97-5 | Bromochloromethane | 1.0 | U | 1.0 | 0.29 |
| 106-43-4 | 4-Chlorotoluene | 1.0 | U | 1.0 | 0.18 |
| 99-87-6 | p-Isopropyltoluene | 1.0 | U | 1.0 | 0.12 |
| 67-64-1 | Acetone | 10 | U | 10 | 1.1 |
| 71-43-2 | Benzene | 1.0 | U | 1.0 | 0.13 |
| 75-25-2 | Bromoform | 1.0 | U | 1.0 | 0.64 |
| 74-83-9 | Bromomethane | 1.0 | U | 1.0 | 0.41 |
| 75-15-0 | Carbon disulfide | 1.0 | U | 1.0 | 0.13 |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 1.0 | 0.13 |
| 108-90-7 | Chlorobenzene | 1.0 | U | 1.0 | 0.15 |
| 75-00-3 | Chloroethane | 1.0 | U | 1.0 | 0.29 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-10598-1

SDG No.:

Client Sample ID: MT-MW06S | Lab Sample ID: 240-10598-3

Matrix: Water | Lab File ID: UXM5279.D

Analysis Method: 8260C | Date Collected: 04/24/2012 14:57

Sample wt/vol: 5(mL) | Date Analyzed: 04/30/2012 15:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 42171 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 67-66-3 | Chloroform | 1.0 | U | 1.0 | 0.16 |
| 74-87-3 | Chloromethane | 0.47 | J | 1.0 | 0.30 |
| 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.17 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.14 |
| 87-68-3 | Hexachlorobutadiene | 1.0 | U | 1.0 | 0.30 |
| 74-95-3 | Dibromomethane | 1.0 | U | 1.0 | 0.28 |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 1.0 | 0.15 |
| 75-71-8 | Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.31 |
| 100-41-4 | Ethylbenzene | 1.0 | U | 1.0 | 0.17 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.24 |
| 108-20-3 | Diisopropyl ether | 10 | U | 10 | 1.5 |
| 91-20-3 | Naphthalene | 1.0 | U | 1.0 | 0.24 |
| 179601-23-1 | m-Xylene & p-Xylene | 2.0 | U | 2.0 | 0.24 |
| 104-51-8 | n-Butylbenzene | 1.0 | U | 1.0 | 0.12 |
| 98-82-8 | Isopropylbenzene | 1.0 | U | 1.0 | 0.13 |
| 103-65-1 | n-Propylbenzene | 1.0 | U | 1.0 | 0.14 |
| 78-93-3 | 2-Butanone | 10 | U | 10 | 0.57 |
| 108-10-1 | 4-Methyl-2-pentanone | 10 | U | 10 | 0.32 |
| 135-98-8 | sec-Butylbenzene | 1.0 | U | 1.0 | 0.13 |
| 1634-04-4 | Methyl tert-butyl ether | 5.0 | U | 5.0 | 0.17 |
| 994-05-8 | Tert-amyl-methyl ether (TAME) | 5.0 | U | 5.0 | 0.067 |
| 75-09-2 | Methylene Chloride | 1.0 | U | 1.0 | 0.33 |
| 95-47-6 | o-Xylene | 1.0 | U | 1.0 | 0.14 |
| 100-42-5 | Styrene | 1.0 | U | 1.0 | 0.11 |
| 637-92-3 | Ethyl-t-butyl ether (ETBE) | 5.0 | U | 5.0 | 0.11 |
| 98-06-6 | tert-Butylbenzene | 1.0 | U | 1.0 | 0.13 |
| 127-18-4 | Tetrachloroethene | 1.0 | U | 1.0 | 0.29 |
| 108-88-3 | Toluene | 1.0 | U | 1.0 | 0.13 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.19 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.19 |
| 79-01-6 | Trichloroethene | 1.0 | U | 1.0 | 0.17 |
| 75-69-4 | Trichlorofluoromethane | 1.0 | U | 1.0 | 0.21 |
| 108-05-4 | Vinyl acetate | 2.0 | U | 2.0 | 0.19 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 1.0 | 0.22 |
| 75-65-0 | tert-Butyl alcohol | 50 | U | 50 | 3.9 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-10598-1

SDG No.:

Client Sample ID: MT-MW06S | Lab Sample ID: 240-10598-3

Matrix: Water | Lab File ID: UXM5279.D

Analysis Method: 8260C | Date Collected: 04/24/2012 14:57

Sample wt/vol: 5(mL) | Date Analyzed: 04/30/2012 15:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 42171 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 1330-20-7 | Xylenes, Total | 2.0 | U | 2.0 | 0.28 |
| 124-48-1 | Dibromochloromethane | 1.0 | U | 1.0 | 0.18 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 90 | | 63-129 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 97 | | 66-117 |
| 2037-26-5 | Toluene-d8 (Surr) | 93 | | 74-115 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 88 | | 75-121 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Client Sample ID: MT-MW06S Lab Sample ID: 240-10598-3

Matrix: Water Lab File ID: UXM5279.D

Analysis Method: 8260C Date Collected: 04/24/2012 14:57

Sample wt/vol: 5(mL) Date Analyzed: 04/30/2012 15:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 42171 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| | Tentatively Identified Compound | | None | |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Client Sample ID: TB-042412 Lab Sample ID: 240-10598-1

Matrix: Water Lab File ID: UXM5277.D

Analysis Method: 8260C Date Collected: 04/24/2012 00:00

Sample wt/vol: 5(mL) Date Analyzed: 04/30/2012 14:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 42171 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.23 |
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 1.0 | 0.22 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.18 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trichfluoroeth ane | 1.0 | U | 1.0 | 0.28 |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.15 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.19 |
| 563-58-6 | 1,1-Dichloropropene | 1.0 | U | 1.0 | 0.13 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 1.0 | 0.17 |
| 96-18-4 | 1,2,3-Trichloropropane | 1.0 | U | 1.0 | 0.43 |
| 526-73-8 | 1,2,3-Trimethylbenzene | 5.0 | U | 5.0 | 0.0059 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.15 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.12 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 2.0 | U | 2.0 | 0.67 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.13 |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.22 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.18 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.14 |
| 142-28-9 | 1,3-Dichloropropane | 1.0 | U | 1.0 | 0.16 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.13 |
| 594-20-7 | 2,2-Dichloropropane | 1.0 | U | 1.0 | 0.13 |
| 110-75-8 | 2-Chloroethyl vinyl ether | 10 | U | 10 | 0.99 |
| 95-49-8 | 2-Chlorotoluene | 1.0 | U | 1.0 | 0.11 |
| 591-78-6 | 2-Hexanone | 10 | U | 10 | 0.41 |
| 108-86-1 | Bromobenzene | 1.0 | U | 1.0 | 0.13 |
| 74-97-5 | Bromochloromethane | 1.0 | U | 1.0 | 0.29 |
| 106-43-4 | 4-Chlorotoluene | 1.0 | U | 1.0 | 0.18 |
| 99-87-6 | p-Isopropyltoluene | 1.0 | U | 1.0 | 0.12 |
| 67-64-1 | Acetone | 10 | U | 10 | 1.1 |
| 71-43-2 | Benzene | 1.0 | U | 1.0 | 0.13 |
| 75-25-2 | Bromoform | 1.0 | U | 1.0 | 0.64 |
| 74-83-9 | Bromomethane | 1.0 | U | 1.0 | 0.41 |
| 75-15-0 | Carbon disulfide | 1.0 | U | 1.0 | 0.13 |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 1.0 | 0.13 |
| 108-90-7 | Chlorobenzene | 1.0 | U | 1.0 | 0.15 |
| 75-00-3 | Chloroethane | 1.0 | U | 1.0 | 0.29 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Client Sample ID: TB-042412 Lab Sample ID: 240-10598-1

Matrix: Water Lab File ID: UXM5277.D

Analysis Method: 8260C Date Collected: 04/24/2012 00:00

Sample wt/vol: 5(mL) Date Analyzed: 04/30/2012 14:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 42171 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 67-66-3 | Chloroform | 1.0 | U | 1.0 | 0.16 |
| 74-87-3 | Chloromethane | 1.0 | U | 1.0 | 0.30 |
| 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.17 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.14 |
| 87-68-3 | Hexachlorobutadiene | 1.0 | U | 1.0 | 0.30 |
| 74-95-3 | Dibromomethane | 1.0 | U | 1.0 | 0.28 |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 1.0 | 0.15 |
| 75-71-8 | Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.31 |
| 100-41-4 | Ethylbenzene | 1.0 | U | 1.0 | 0.17 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.24 |
| 108-20-3 | Diisopropyl ether | 10 | U | 10 | 1.5 |
| 91-20-3 | Naphthalene | 1.0 | U | 1.0 | 0.24 |
| 179601-23-1 | m-Xylene & p-Xylene | 2.0 | U | 2.0 | 0.24 |
| 104-51-8 | n-Butylbenzene | 1.0 | U | 1.0 | 0.12 |
| 98-82-8 | Isopropylbenzene | 1.0 | U | 1.0 | 0.13 |
| 103-65-1 | n-Propylbenzene | 1.0 | U | 1.0 | 0.14 |
| 78-93-3 | 2-Butanone | 10 | U | 10 | 0.57 |
| 108-10-1 | 4-Methyl-2-pentanone | 10 | U | 10 | 0.32 |
| 135-98-8 | sec-Butylbenzene | 1.0 | U | 1.0 | 0.13 |
| 1634-04-4 | Methyl tert-butyl ether | 5.0 | U | 5.0 | 0.17 |
| 994-05-8 | Tert-amyl-methyl ether (TAME) | 5.0 | U | 5.0 | 0.067 |
| 75-09-2 | Methylene Chloride | 1.0 | U | 1.0 | 0.33 |
| 95-47-6 | o-Xylene | 1.0 | U | 1.0 | 0.14 |
| 100-42-5 | Styrene | 1.0 | U | 1.0 | 0.11 |
| 637-92-3 | Ethyl-t-butyl ether (ETBE) | 5.0 | U | 5.0 | 0.11 |
| 98-06-6 | tert-Butylbenzene | 1.0 | U | 1.0 | 0.13 |
| 127-18-4 | Tetrachloroethene | 1.0 | U | 1.0 | 0.29 |
| 108-88-3 | Toluene | 1.0 | U | 1.0 | 0.13 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.19 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.19 |
| 79-01-6 | Trichloroethene | 1.0 | U | 1.0 | 0.17 |
| 75-69-4 | Trichlorofluoromethane | 1.0 | U | 1.0 | 0.21 |
| 108-05-4 | Vinyl acetate | 2.0 | U | 2.0 | 0.19 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 1.0 | 0.22 |
| 75-65-0 | tert-Butyl alcohol | 50 | U | 50 | 3.9 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-10598-1

SDG No.:

Client Sample ID: TB-042412  Lab Sample ID: 240-10598-1

Matrix: Water  Lab File ID: UXM5277.D

Analysis Method: 8260C  Date Collected: 04/24/2012 00:00

Sample wt/vol: 5(mL)  Date Analyzed: 04/30/2012 14:46

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 42171  Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 1330-20-7 | Xylenes, Total | 2.0 | U | 2.0 | 0.28 |
| 124-48-1 | Dibromochloromethane | 1.0 | U | 1.0 | 0.18 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 90 | | 63-129 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 98 | | 66-117 |
| 2037-26-5 | Toluene-d8 (Surr) | 91 | | 74-115 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 88 | | 75-121 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton  Job No.: 240-10598-1

SDG No.:

Client Sample ID: TB-042412  Lab Sample ID: 240-10598-1

Matrix: Water  Lab File ID: UXM5277.D

Analysis Method: 8260C  Date Collected: 04/24/2012 00:00

Sample wt/vol: 5(mL)  Date Analyzed: 04/30/2012 14:46

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624 ID: 0.18(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 42171  Units: ug/L

Number TICs Found: 2  TIC Result Total: 1.46

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| 1066-40-6 | Silanol, trimethyl- | 4.60 | 1.3 | T J N |
| 108-87-2 | Methylcyclohexane | 6.21 | 0.16 | J B |

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-10598-1

SDG No.:

Client Sample ID: MT-MW04S | Lab Sample ID: 240-10598-2

Matrix: Water | Lab File ID: 0501029.D

Analysis Method: 8270C | Date Collected: 04/24/2012 11:30

Extract. Method: 3520C | Date Extracted: 04/26/2012 08:59

Sample wt/vol: 1010(mL) | Date Analyzed: 05/01/2012 16:45

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 42274 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 123-91-1 | 1,4-Dioxane | 0.99 | U | 0.99 | 0.49 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 321-60-8 | 2-Fluorobiphenyl (Surr) | 52 | | 28-110 |
| 367-12-4 | 2-Fluorophenol (Surr) | 48 | | 10-110 |
| 118-79-6 | 2,4,6-Tribromophenol (Surr) | 60 | | 22-120 |
| 4165-60-0 | Nitrobenzene-d5 (Surr) | 49 | | 27-111 |
| 4165-62-2 | Phenol-d5 (Surr) | 46 | | 10-110 |
| 1718-51-0 | Terphenyl-d14 (Surr) | 69 | | 37-119 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-10598-1

SDG No.:

Client Sample ID: MT-MW06S | Lab Sample ID: 240-10598-3

Matrix: Water | Lab File ID: 0501030.D

Analysis Method: 8270C | Date Collected: 04/24/2012 14:57

Extract. Method: 3520C | Date Extracted: 04/26/2012 08:59

Sample wt/vol: 980(mL) | Date Analyzed: 05/01/2012 17:03

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 42274 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 123-91-1 | 1,4-Dioxane | 1.0 | U | 1.0 | 0.50 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 321-60-8 | 2-Fluorobiphenyl (Surr) | 51 | | 28-110 |
| 367-12-4 | 2-Fluorophenol (Surr) | 54 | | 10-110 |
| 118-79-6 | 2,4,6-Tribromophenol (Surr) | 58 | | 22-120 |
| 4165-60-0 | Nitrobenzene-d5 (Surr) | 54 | | 27-111 |
| 4165-62-2 | Phenol-d5 (Surr) | 49 | | 10-110 |
| 1718-51-0 | Terphenyl-d14 (Surr) | 69 | | 37-119 |

FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-10598-1

SDG No.:

Client Sample ID: MT-MW04S | Lab Sample ID: 240-10598-2

Matrix: Water | Lab File ID: YF042809.D

Analysis Method: 8015B | Date Collected: 04/24/2012 11:30

Sample wt/vol: 5(mL) | Date Analyzed: 04/28/2012 18:22

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VRX ID: 0.45(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 42055 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 8006-61-9 | Total Petroleum Hydrocarbons (C6-C10) | 49 | J B | 100 | 25 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 98-08-8 | Trifluorotoluene (Surr) | 65 | | 10-150 |

FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-10598-1

SDG No.:

Client Sample ID: MT-MW06S  Lab Sample ID: 240-10598-3

Matrix: Water  Lab File ID: YF042812.D

Analysis Method: 8015B  Date Collected: 04/24/2012 14:57

Sample wt/vol: 5(mL)  Date Analyzed: 04/28/2012 20:13

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-VRX  ID: 0.45(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 42055  Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 8006-61-9 | Total Petroleum Hydrocarbons (C6-C10) | 64 | J B | 100 | 25 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 98-08-8 | Trifluorotoluene (Surr) | 64 | | 10-150 |

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-10598-1

SDG No.:

Client Sample ID: MT-MW04S | Lab Sample ID: 240-10598-2

Matrix: Water | Lab File ID: P6F04308.D

Analysis Method: 8015B | Date Collected: 04/24/2012 11:30

Extraction Method: 3520C | Date Extracted: 04/27/2012 10:39

Sample wt/vol: 1020(mL) | Date Analyzed: 04/30/2012 13:30

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-5 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 42140 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| STL00141 | Total Petroleum Hydrocarbons (C10-C32) | 440 | J B | 490 | 230 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 111-84-2 | n-Nonane | 51 | | 10-110 |

FORM I

DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-10598-1

SDG No.:

Client Sample ID: MT-MW06S | Lab Sample ID: 240-10598-3

Matrix: Water | Lab File ID: P6F04309.D

Analysis Method: 8015B | Date Collected: 04/24/2012 14:57

Extraction Method: 3520C | Date Extracted: 04/27/2012 10:39

Sample wt/vol: 1010(mL) | Date Analyzed: 04/30/2012 14:01

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-5 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 42140 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| STL00141 | Total Petroleum Hydrocarbons (C10-C32) | 480 | J B | 500 | 240 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 111-84-2 | n-Nonane | 44 | | 10-110 |

TestAmerica Canton

Client Sample ID: **MT-MW04S**

Dissolved HPLC - Mass. Spec.

**Lot-Sample #...:** G2D270498-001 **Work Order #...:** MR86V1AA **Matrix.....:** WATER
**Date Sampled...:** 04/24/12 **Date Received..:** 04/27/12
**Prep Date.....:** 05/01/12 **Analysis Date..:** 05/07/12
**Prep Batch #...:** 2122104
**Dilution Factor:** 1 **Method.....:** SW846 6850

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---|---|---|---|---|
| Perchlorate | ND | 1.0 | ug/L | 0.082 |

TestAmerica Canton

Client Sample ID: MT-MW06S

Dissolved HPLC - Mass. Spec.

| | | | | |
|---|---|---|---|---|
| **Lot-Sample #...:** G2D270498-002 | **Work Order #...:** MR8601AA | | **Matrix.....:** WATER | |
| **Date Sampled...:** 04/24/12 | **Date Received..:** 04/27/12 | | | |
| **Prep Date.....:** 05/01/12 | **Analysis Date..:** 05/04/12 | | | |
| **Prep Batch #...:** 2122104 | | | | |
| **Dilution Factor:** 1 | **Method.....:** SW846 6850 | | | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---|---|---|---|---|
| **Perchlorate** | **0.16 J** | **1.0** | **ug/L** | **0.082** |

**NOTE(S):**

J Estimated result Result is less than RL

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: MT-MW04S
Lab Sample ID: 240-10598-2
Lab Name: TestAmerica Canton
Job No.: 240-10598-1
SDG ID.:
Matrix: Water
Date Sampled: 04/24/2012 11:30
Reporting Basis: WET
Date Received: 04/25/2012 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 2.0 | 2.0 | 0.13 | ug/L | U | | 1 | 6020 |
| 7440-38-2 | Arsenic | 0.71 | 5.0 | 0.40 | ug/L | J | | 1 | 6020 |
| 7440-39-3 | Barium | 76 | 5.0 | 0.19 | ug/L | | B | 1 | 6020 |
| 7440-41-7 | Beryllium | 3.3 | 1.0 | 0.20 | ug/L | | | 1 | 6020 |
| 7440-43-9 | Cadmium | 0.14 | 1.0 | 0.13 | ug/L | J | | 1 | 6020 |
| 7440-47-3 | Chromium | 2.0 | 2.0 | 0.71 | ug/L | U | | 1 | 6020 |
| 7440-48-4 | Cobalt | 210 | 1.0 | 0.058 | ug/L | | | 1 | 6020 |
| 7440-50-8 | Copper | 43 | 2.0 | 0.29 | ug/L | | B | 1 | 6020 |
| 7439-92-1 | Lead | 0.71 | 1.0 | 0.18 | ug/L | J | B | 1 | 6020 |
| 7439-98-7 | Molybdenum | 10 | 10 | 0.093 | ug/L | U | | 1 | 6020 |
| 7440-02-0 | Nickel | 330 | 2.0 | 0.20 | ug/L | | | 1 | 6020 |
| 7782-49-2 | Selenium | 5.0 | 5.0 | 0.57 | ug/L | U | | 1 | 6020 |
| 7440-22-4 | Silver | 1.0 | 1.0 | 0.080 | ug/L | U | | 1 | 6020 |
| 7440-28-0 | Thallium | 0.16 | 2.0 | 0.14 | ug/L | J | | 1 | 6020 |
| 7440-33-7 | Tungsten | 10 | 10 | 0.37 | ug/L | U | | 1 | 6020 |
| 7440-62-2 | Vanadium | 20 | 20 | 0.44 | ug/L | U | | 1 | 6020 |
| 7440-66-6 | Zinc | 340 | 20 | 2.3 | ug/L | | B | 1 | 6020 |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MT-MW04S
Lab Sample ID: 240-10598-2
Lab Name: TestAmerica Canton
Job No.: 240-10598-1
SDG ID.:
Matrix: Water
Date Sampled: 04/24/2012 11:30
Reporting Basis: WET
Date Received: 04/25/2012 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.20 | 0.20 | 0.12 | ug/L | U | | 1 | 7470A |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: MT-MW06S
Lab Sample ID: 240-10598-3
Lab Name: TestAmerica Canton
Job No.: 240-10598-1
SDG ID.:
Matrix: Water
Date Sampled: 04/24/2012 14:57
Reporting Basis: WET
Date Received: 04/25/2012 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 2.0 | 2.0 | 0.13 | ug/L | U | | 1 | 6020 |
| 7440-38-2 | Arsenic | 1.5 | 5.0 | 0.40 | ug/L | J | | 1 | 6020 |
| 7440-39-3 | Barium | 96 | 5.0 | 0.19 | ug/L | | B | 1 | 6020 |
| 7440-41-7 | Beryllium | 81 | 1.0 | 0.20 | ug/L | | | 1 | 6020 |
| 7440-43-9 | Cadmium | 2.0 | 1.0 | 0.13 | ug/L | | | 1 | 6020 |
| 7440-47-3 | Chromium | 2.0 | 2.0 | 0.71 | ug/L | U | | 1 | 6020 |
| 7440-48-4 | Cobalt | 540 | 1.0 | 0.058 | ug/L | | | 1 | 6020 |
| 7440-50-8 | Copper | 46 | 2.0 | 0.29 | ug/L | | B | 1 | 6020 |
| 7439-92-1 | Lead | 2.3 | 1.0 | 0.18 | ug/L | | B | 1 | 6020 |
| 7439-98-7 | Molybdenum | 0.15 | 10 | 0.093 | ug/L | J | | 1 | 6020 |
| 7440-02-0 | Nickel | 1200 | 2.0 | 0.20 | ug/L | | | 1 | 6020 |
| 7782-49-2 | Selenium | 1.2 | 5.0 | 0.57 | ug/L | J | | 1 | 6020 |
| 7440-22-4 | Silver | 1.0 | 1.0 | 0.080 | ug/L | U | | 1 | 6020 |
| 7440-28-0 | Thallium | 0.77 | 2.0 | 0.14 | ug/L | J | | 1 | 6020 |
| 7440-33-7 | Tungsten | 10 | 10 | 0.37 | ug/L | U | | 1 | 6020 |
| 7440-62-2 | Vanadium | 20 | 20 | 0.44 | ug/L | U | | 1 | 6020 |
| 7440-66-6 | Zinc | 1900 | 20 | 2.3 | ug/L | | B | 1 | 6020 |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MT-MW06S
Lab Sample ID: 240-10598-3
Lab Name: TestAmerica Canton
Job No.: 240-10598-1
SDG ID.:
Matrix: Water
Date Sampled: 04/24/2012 14:57
Reporting Basis: WET
Date Received: 04/25/2012 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.20 | 0.20 | 0.12 | ug/L | U | | 1 | 7470A |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MT-MW04S
Lab Sample ID: 240-10598-2
Lab Name: TestAmerica Canton
Job No.: 240-10598-1
SDG ID.:
Matrix: Water
Date Sampled: 04/24/2012 11:30
Reporting Basis: WET
Date Received: 04/25/2012 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 0.21 | 2.0 | 0.13 | ug/L | J | | 1 | 6020 |
| 7440-38-2 | Arsenic | 0.69 | 5.0 | 0.40 | ug/L | J | | 1 | 6020 |
| 7440-39-3 | Barium | 76 | 5.0 | 0.19 | ug/L | | B | 1 | 6020 |
| 7440-41-7 | Beryllium | 3.1 | 1.0 | 0.20 | ug/L | | | 1 | 6020 |
| 7440-43-9 | Cadmium | 0.23 | 1.0 | 0.13 | ug/L | J | | 1 | 6020 |
| 7440-47-3 | Chromium | 2.0 | 2.0 | 0.71 | ug/L | U | | 1 | 6020 |
| 7440-48-4 | Cobalt | 200 | 1.0 | 0.058 | ug/L | | | 1 | 6020 |
| 7440-50-8 | Copper | 44 | 2.0 | 0.29 | ug/L | | B | 1 | 6020 |
| 7439-92-1 | Lead | 0.64 | 1.0 | 0.18 | ug/L | J | B | 1 | 6020 |
| 7439-98-7 | Molybdenum | 0.55 | 10 | 0.093 | ug/L | J | | 1 | 6020 |
| 7440-02-0 | Nickel | 320 | 2.0 | 0.20 | ug/L | | | 1 | 6020 |
| 7782-49-2 | Selenium | 5.0 | 5.0 | 0.57 | ug/L | U | | 1 | 6020 |
| 7440-22-4 | Silver | 1.0 | 1.0 | 0.080 | ug/L | U | | 1 | 6020 |
| 7440-28-0 | Thallium | 1.3 | 2.0 | 0.14 | ug/L | J | | 1 | 6020 |
| 7440-62-2 | Vanadium | 20 | 20 | 0.44 | ug/L | U | | 1 | 6020 |
| 7440-66-6 | Zinc | 330 | 20 | 2.3 | ug/L | | B | 1 | 6020 |
| 7440-33-7 | Tungsten | 0.78 | 10 | 0.37 | ug/L | J | | 1 | 6020 |
| 7439-97-6 | Mercury | 0.20 | 0.20 | 0.12 | ug/L | U | | 1 | 7470A |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MT-MW06S
Lab Sample ID: 240-10598-3
Lab Name: TestAmerica Canton
Job No.: 240-10598-1
SDG ID.:
Matrix: Water
Date Sampled: 04/24/2012 14:57
Reporting Basis: WET
Date Received: 04/25/2012 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 2.0 | 2.0 | 0.13 | ug/L | U | | 1 | 6020 |
| 7440-38-2 | Arsenic | 1.3 | 5.0 | 0.40 | ug/L | J | | 1 | 6020 |
| 7440-39-3 | Barium | 94 | 5.0 | 0.19 | ug/L | | B | 1 | 6020 |
| 7440-41-7 | Beryllium | 80 | 1.0 | 0.20 | ug/L | | | 1 | 6020 |
| 7440-43-9 | Cadmium | 2.1 | 1.0 | 0.13 | ug/L | | | 1 | 6020 |
| 7440-47-3 | Chromium | 2.0 | 2.0 | 0.71 | ug/L | U | | 1 | 6020 |
| 7440-48-4 | Cobalt | 530 | 1.0 | 0.058 | ug/L | | | 1 | 6020 |
| 7440-50-8 | Copper | 48 | 2.0 | 0.29 | ug/L | | B | 1 | 6020 |
| 7439-92-1 | Lead | 2.3 | 1.0 | 0.18 | ug/L | | B | 1 | 6020 |
| 7439-98-7 | Molybdenum | 10 | 10 | 0.093 | ug/L | U | | 1 | 6020 |
| 7440-02-0 | Nickel | 1200 | 2.0 | 0.20 | ug/L | | | 1 | 6020 |
| 7782-49-2 | Selenium | 0.63 | 5.0 | 0.57 | ug/L | J | | 1 | 6020 |
| 7440-22-4 | Silver | 1.0 | 1.0 | 0.080 | ug/L | U | | 1 | 6020 |
| 7440-28-0 | Thallium | 0.57 | 2.0 | 0.14 | ug/L | J | | 1 | 6020 |
| 7440-62-2 | Vanadium | 20 | 20 | 0.44 | ug/L | U | | 1 | 6020 |
| 7440-66-6 | Zinc | 1900 | 20 | 2.3 | ug/L | | B | 1 | 6020 |
| 7440-33-7 | Tungsten | 10 | 10 | 0.37 | ug/L | U | | 1 | 6020 |
| 7439-97-6 | Mercury | 0.20 | 0.20 | 0.12 | ug/L | U | | 1 | 7470A |

**Appendix C**

Support Documentation

# HOLDTIME

**SDG** 240-10598-1

| SORT | UNITS | NSAMPLE | LAB_ID | QC_TYPE | SAMP_DATE | EXTR_DATE | ANAL_DATE | SMP_EXTR | EXTR_ANL | SMP_ANL |
|---|---|---|---|---|---|---|---|---|---|---|
| HG | UG/L | MT-MW04S | 240-10598-2 | NM | 4/24/2012 | 4/26/2012 | 4/27/2012 | 2 | 1 | 3 |
| HG | UG/L | MT-MW06S | 240-10598-3 | NM | 4/24/2012 | 4/27/2012 | 4/28/2012 | 3 | 1 | 4 |
| M | UG/L | MT-MW06S | 240-10598-3 | NM | 4/24/2012 | 4/26/2012 | 4/28/2012 | 2 | 2 | 4 |
| M | UG/L | MT-MW04S | 240-10598-2 | NM | 4/24/2012 | 4/26/2012 | 4/28/2012 | 2 | 2 | 4 |
| HGF | UG/L | MT-MW06S | 240-10598-3 | NM | 4/24/2012 | 4/27/2012 | 4/28/2012 | 3 | 1 | 4 |
| HGF | UG/L | MT-MW04S | 240-10598-2 | NM | 4/24/2012 | 4/26/2012 | 4/27/2012 | 2 | 1 | 3 |
| MF | UG/L | MT-MW06S | 240-10598-3 | NM | 4/24/2012 | 4/26/2012 | 4/28/2012 | 2 | 2 | 4 |
| MF | UG/L | MT-MW04S | 240-10598-2 | NM | 4/24/2012 | 4/26/2012 | 4/28/2012 | 2 | 2 | 4 |
| PCL | UG/L | MT-MW06S | 240-10598-3 | NM | 4/24/2012 | 5/1/2012 | 5/4/2012 | 7 | 3 | 10 |
| PCL | UG/L | MT-MW04S | 240-10598-2 | NM | 4/24/2012 | 5/1/2012 | 5/7/2012 | 7 | 6 | 13 |
| OS | UG/L | MT-MW06S | 240-10598-3 | NM | 4/24/2012 | 4/26/2012 | 5/1/2012 | 2 | 5 | 7 |
| OS | UG/L | MT-MW04S | 240-10598-2 | NM | 4/24/2012 | 4/26/2012 | 5/1/2012 | 2 | 5 | 7 |
| OV | UG/L | MT-MW04S | 240-10598-2 | NM | 4/24/2012 | 4/30/2012 | 4/30/2012 | 6 | 0 | 6 |
| OV | UG/L | MT-MW06S | 240-10598-3 | NM | 4/24/2012 | 4/30/2012 | 4/30/2012 | 6 | 0 | 6 |
| OV | UG/L | TB-042412 | 240-10598-1 | NM | 4/24/2012 | 4/30/2012 | 4/30/2012 | 6 | 0 | 6 |

| SORT | UNITS | NSAMPLE | LAB_ID | QC_TYPE | SAMP_DATE | EXTR_DATE | ANAL_DATE | SMP_EXTR | EXTR_ANL | SMP_ANL |
|---|---|---|---|---|---|---|---|---|---|---|
| DRO | UG/L | MT-MW04S | 240-10598-2 | NM | 4/24/2012 | 4/27/2012 | 4/30/2012 | 3 | 3 | 6 |
| DRO | UG/L | MT-MW06S | 240-10598-3 | NM | 4/24/2012 | 4/27/2012 | 4/30/2012 | 3 | 3 | 6 |
| GRO | UG/L | MT-MW06S | 240-10598-3 | NM | 4/24/2012 | 4/28/2012 | 4/28/2012 | 4 | 0 | 4 |
| GRO | UG/L | MT-MW04S | 240-10598-2 | NM | 4/24/2012 | 4/28/2012 | 4/28/2012 | 4 | 0 | 4 |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

Job Number: 240-10598-1

Job Description: MSA Groundwater Sampling

For:
Tetra Tech, Inc formerly Tetra Tech NUS
20251 Century Blvd
Suite 200
Germantown, MD 20874

Attention: Tony Apanavage

Patrick O'Meara

Approved for release.
Patrick J O'Meara
Project Manager II
5/15/2012 3:55 PM

Patrick J O'Meara
Project Manager II
patrick.omeara@testamericainc.com
05/15/2012

cc: Samantha Brenner
Ms. Kelly Carper
Dev Murali
Ms. Tobrena Sedlmyer
Final Data Tracking

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of TestAmerica and its client. All questions regarding this report should be directed to the TestAmerica Project Manager who has signed this report.

# CASE NARRATIVE

## Client: Tetra Tech, Inc formerly Tetra Tech NUS

## Project: MSA Groundwater Sampling

## Report Number: 240-10598-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

The 6850 Perchlorate analysis was performed at the TestAmerica West Sacramento Laboratory.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

**RECEIPT**

The samples were received on 04/25/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 0.2 C.

**VOLATILE ORGANIC COMPOUNDS (GC MS)**

Samples TB-042412 (240-10598-1), MT-MW04S (240-10598-2) and MT-MW06S (240-10598-3) were analyzed for volatile organic compounds (GC MS) in accordance with EPA SW-846 Method 8260C. The samples were analyzed on 04/30/2012.

1,2,3-Trichlorobenzene was detected in method blank MB 240-42171/5 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

No other difficulties were encountered during the VOCs analyses. All other quality control parameters were within the acceptance limits.

**SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)**

Samples MT-MW04S (240-10598-2) and MT-MW06S (240-10598-3) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/26/2012 and analyzed on 05/01/2012.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out and no corrective action is required.

No difficulties were encountered during the SVOCs analyses. All quality control parameters were within the acceptance limits.

**GASOLINE RANGE ORGANICS (GRO)**

Samples MT-MW04S (240-10598-2) and MT-MW06S (240-10598-3) were analyzed for gasoline range organics (GRO) in accordance with EPA SW-846 Method 8015B - GRO. The samples were analyzed on 04/28/2012.

Total Petroleum Hydrocarbons (C6-C10) was detected in method blank MB 240-42055/7 at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

No other difficulties were encountered during the GRO analyses. All other quality control parameters were within the acceptance limits.

**DIESEL RANGE ORGANICS (DRO)**
Samples MT-MW04S (240-10598-2) and MT-MW06S (240-10598-3) were analyzed for diesel range organics (DRO) in accordance with EPA SW-846 Method 8015B - DRO. The samples were prepared on 04/27/2012 and analyzed on 04/30/2012.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required.

Total Petroleum Hydrocarbons (C10-C32) was detected in method blank MB 240-41890/15-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

No other difficulties were encountered during the DRO analyses. All other quality control parameters were within the acceptance limits.

**DISSOLVED METALS (ICPMS)**
Samples MT-MW04S (240-10598-2) and MT-MW06S (240-10598-3) were analyzed for dissolved metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 04/26/2012 and analyzed on 04/28/2012.

No difficulties were encountered during the metals analyses. All quality control parameters were within the acceptance limits.

**TOTAL RECOVERABLE METALS (ICPMS)**
Samples MT-MW04S (240-10598-2) and MT-MW06S (240-10598-3) were analyzed for total recoverable metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 04/26/2012 and analyzed on 04/28/2012.

Several analytes were detected in method blank MB 240-41803/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

Several analytes were detected in method blank MB 240-41805/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

No other difficulties were encountered during the metals analyses. All other quality control parameters were within the acceptance limits.

**DISSOLVED MERCURY (CVAA)**
Samples MT-MW04S (240-10598-2) and MT-MW06S (240-10598-3) were analyzed for dissolved mercury (CVAA) in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 04/26/2012 and 04/27/2012 and analyzed on 04/27/2012 and 04/28/2012.

No difficulties were encountered during the mercury analyses. All quality control parameters were within the acceptance limits.

**TOTAL MERCURY**
Samples MT-MW04S (240-10598-2) and MT-MW06S (240-10598-3) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 04/26/2012 and 04/27/2012 and analyzed on 04/27/2012 and 04/28/2012.

No difficulties were encountered during the mercury analyses. All quality control parameters were within the acceptance limits.

# Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

| Client Contact | | | | |
|---|---|---|---|---|
| Company Name: Tetra Tech INC | Client Project Manager: Tony Apanavage | Site Contact: Walt Pryor | Lab Contact: Pat O'meara | COC No: |
| Address: 20251 Century Blvd. | Telephone: 301 528-3021 | Telephone: 301 991-3914 | Telephone: 330 497-9396 | 1 of 1 COCs |
| City/State/Zip: Germantown MD 20874 | Email: | Analysis Turnaround Time (in BUS days) | Analyses | For lab use only |
| Phone: 301 528-3021 | | TAT if different from below ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day | | Walk-in client ☐ Lab pickup ☐ Lab sampling ☐ Job/SDG No.: |
| Project Name: MSA - Ground Water Sampling | Method of Shipment/Carrier: Fed EX | | | |
| Project Number: 112FC04021-02 | Shipping/Tracking No: | | | |
| PO# | | | | |

| Sample Identification | Sample Date | Sample Time | Matrix: Air | Aqueous | Sediment | Solid | Other: | Containers & Preservatives: H2SO4 | HNO3 | HCl | NaOH | ZnAc/NaOH | Unpres | Other: | Filtered Sample (Y/N) | Composite C / Grab G | VOCs | Total Mn | Diss Mn | 1,4 Dioxane | DRO | GRO | Perchlorate | Sample Specific Notes / Special Instructions: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TB-042412 | 4-24-12 | — | | X | | | | | | 2 | | | | | N | G | X | | | | | | | |
| MT-MW04S | ↓ | 1130 | | X | | | | | 2 | 5 | | | 5 | | ↓ | ↓ | X | X | X | X | X | X | X | |
| MT-MW06S | ↓ | 1457 | | X | | | | | 2 | 5 | | | 5 | | ↓ | ↓ | X | X | X | X | X | X | X | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | | | | | |

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

| Relinquished by: | Company: | Date/Time: | Received by: | Company: | Date/Time: |
|---|---|---|---|---|---|
| Walt Pryor | TT INC. | 4-24-12 / 1611 | Paul Shepard | TestAmerica | 4/24/12 / 1611 |
| Relinquished by: | Company: | Date/Time: | Received by: | Company: | Date/Time: |
| | TestAmerica | 4-24-2012 / 1650 | | | |
| Relinquished by: | Company: | Date/Time: | Received in Laboratory by: | Company: | Date/Time: |
| | | | Michael Labrie | TAL | 4/25/12 9:15 |

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TAL-0018 (1008)



05/15/2012

**TestAmerica North Canton Sample Receipt Form/Narrative** Login # : 10598

Client Tetra Tech Site Name _____ By: Mike Gordon (Signature)

Cooler Received on 4/25/12 Opened on 4/25/12

FedEx: 1st Grd (Exp) UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

TestAmerica Cooler # _____ Foam Box (Client Cooler) Box Other _____

Packing material used: (Bubble Wrap) (Foam) Plastic Bag None Other _____

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

| | | | | |
|---|---|---|---|---|
| IR GUN# 1 | (CF -2°C) | Observed Sample Temp. _____ °C | Corrected Sample Temp. _____ °C | |
| IR GUN# 4G | (CF -1°C) | Observed Sample Temp. _____ °C | Corrected Sample Temp. _____ °C | ☐ Multiple on Back |
| IR GUN# 5G | (CF -1°C) | Observed Sample Temp. 1.2 °C | Corrected Sample Temp. 0.2 °C | |
| IR GUN# 6Y | (CF -2°C) | Observed Sample Temp. _____ °C | Corrected Sample Temp. _____ °C | |

| | |
|---|---|
| 2. Were custody seals on the outside of the cooler(s)? If Yes Quantity _____ | Yes (No) |
| -Were custody seals on the outside of the cooler(s) signed & dated? | Yes No (NA) |
| -Were custody seals on the bottle(s)? | Yes (No) |
| 3. Shippers' packing slip attached to the cooler(s)? | (Yes) No |
| 4. Did custody papers accompany the sample(s)? | (Yes) No |
| 5. Were the custody papers relinquished & signed in the appropriate place? | (Yes) No |
| 6. Did all bottles arrive in good condition (Unbroken)? | (Yes) No |
| 7. Could all bottle labels be reconciled with the COC? | (Yes) No |
| 8. Were correct bottle(s) used for the test(s) indicated? | (Yes) No |
| 9. Sufficient quantity received to perform indicated analyses? | (Yes) No |
| 10. Were sample(s) at the correct pH upon receipt? | (Yes) No NA |
| 11. Were VOAs on the COC? | (Yes) No |
| 12. Were air bubbles >6 mm in any VOA vials? | Yes (No) NA |
| 13. Was a trip blank present in the cooler(s)? | (Yes) No |

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

**14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES**

**15. SAMPLE CONDITION**

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

## 16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). Nitric Acid Lot# 110410-HNO3; Sulfuric Acid Lot# 041911-H2SO4; Sodium Hydroxide Lot# 121809 - NaOH; Hydrochloric Acid Lot# 041911-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-(CH3COO)2ZN/NaOH. What time was preserved added to sample(s)? _____

| Client ID | pH | Date | Initials |
|---|---|---|---|
| 4 | ≤2 ≤2 | 4/25/12 | MB |
| 6 | ≤2 ≤2 | " | " |

| Cooler # | Observed Sample Temp. °C | Corrected Sample Temp. °C | IR # | Coolant |
|---|---|---|---|---|

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

| Client Sample ID | Lab Sample ID | DBFM # | DCA # | TOL # | BFB # |
|---|---|---|---|---|---|
| TB-042412 | 240-10598-1 | 88 | 90 | 91 | 98 |
| MT-MW04S | 240-10598-2 | 87 | 87 | 89 | 95 |
| MT-MW06S | 240-10598-3 | 88 | 90 | 93 | 97 |
| | MB 240-42171/5 | 86 | 87 | 92 | 96 |
| | LCS 240-42171/4 | 84 | 80 | 83 | 90 |
| | 240-10350-A-5 MS | 86 | 84 | 90 | 93 |
| | 240-10350-C-5 MSD | 86 | 83 | 89 | 88 |

| | QC LIMITS |
|---|---|
| DBFM = Dibromofluoromethane (Surr) | 75-121 |
| DCA = 1,2-Dichloroethane-d4 (Surr) | 63-129 |
| TOL = Toluene-d8 (Surr) | 74-115 |
| BFB = 4-Bromofluorobenzene (Surr) | 66-117 |

# Column to be used to flag recovery values

FORM II 8260C

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Instrument ID: A3UX16 Start Date: 04/29/2012 15:11

Analysis Batch Number: 42092 End Date: 04/29/2012 20:57

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| BFB 240-42092/1 | | 04/29/2012 15:11 | 1 | BFB2914.D | DB-624 0.18(mm) |
| STD8260 240-42092/2 IC | | 04/29/2012 15:41 | 1 | UXM5239.D | DB-624 0.18(mm) |
| STD8260 240-42092/3 IC | | 04/29/2012 16:03 | 1 | UXM5240.D | DB-624 0.18(mm) |
| STD8260 240-42092/4 ICIS | | 04/29/2012 16:26 | 1 | UXM5241.D | DB-624 0.18(mm) |
| STD8260 240-42092/5 IC | | 04/29/2012 16:49 | 1 | UXM5242.D | DB-624 0.18(mm) |
| STD8260 240-42092/6 IC | | 04/29/2012 17:12 | 1 | UXM5243.D | DB-624 0.18(mm) |
| STD8260 240-42092/7 IC | | 04/29/2012 17:34 | 1 | UXM5244.D | DB-624 0.18(mm) |
| STD1 240-42092/8 IC | | 04/29/2012 17:57 | 1 | UXM5245.D | DB-624 0.18(mm) |
| STD2 240-42092/9 IC | | 04/29/2012 18:20 | 1 | UXM5246.D | DB-624 0.18(mm) |
| STD3 240-42092/10 IC | | 04/29/2012 18:42 | 1 | UXM5247.D | DB-624 0.18(mm) |
| STD4 240-42092/11 IC | | 04/29/2012 19:05 | 1 | UXM5248.D | DB-624 0.18(mm) |
| STD5 240-42092/12 IC | | 04/29/2012 19:28 | 1 | UXM5249.D | DB-624 0.18(mm) |
| STD6 240-42092/13 IC | | 04/29/2012 19:50 | 1 | UXM5250.D | DB-624 0.18(mm) |
| ICV 240-42092/14 | | 04/29/2012 20:13 | 1 | UXM5251.D | DB-624 0.18(mm) |
| ZZZZZ | | 04/29/2012 20:35 | 1 | | DB-624 0.18(mm) |
| ZZZZZ | | 04/29/2012 20:57 | 1 | | DB-624 0.18(mm) |

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Lab File ID: BFB2914.D BFB Injection Date: 04/29/2012

Instrument ID: A3UX16 BFB Injection Time: 15:11

Analysis Batch No.: 42092

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 50 | 15.0 - 40.0 % of mass 95 | 21.4 | |
| 75 | 30.0 - 60.0 % of mass 95 | 55.5 | |
| 95 | Base Peak, 100% relative abundance | 100.0 | |
| 96 | 5.0 - 9.0 % of mass 95 | 6.3 | |
| 173 | Less than 2.0 % of mass 174 | 0.3 | (0.4)1 |
| 174 | 50.0 - 120.00 % of mass 95 | 67.2 | |
| 175 | 5.0 - 9.0 % of mass 174 | 4.9 | (7.4)1 |
| 176 | 95.0 - 101.0 % of mass 174 | 65.5 | (97.4)1 |
| 177 | 5.0 - 9.0 % of mass 176 | 4.1 | (6.3)2 |

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | STD8260 240-42092/2 | UXM5239.D | 04/29/2012 | 15:41 |
| | STD8260 240-42092/3 | UXM5240.D | 04/29/2012 | 16:03 |
| | STD8260 240-42092/4 | UXM5241.D | 04/29/2012 | 16:26 |
| | STD8260 240-42092/5 | UXM5242.D | 04/29/2012 | 16:49 |
| | STD8260 240-42092/6 | UXM5243.D | 04/29/2012 | 17:12 |
| | STD8260 240-42092/7 | UXM5244.D | 04/29/2012 | 17:34 |
| | STD1 240-42092/8 | UXM5245.D | 04/29/2012 | 17:57 |
| | STD2 240-42092/9 | UXM5246.D | 04/29/2012 | 18:20 |
| | STD3 240-42092/10 | UXM5247.D | 04/29/2012 | 18:42 |
| | STD4 240-42092/11 | UXM5248.D | 04/29/2012 | 19:05 |
| | STD5 240-42092/12 | UXM5249.D | 04/29/2012 | 19:28 |
| | STD6 240-42092/13 | UXM5250.D | 04/29/2012 | 19:50 |
| | ICV 240-42092/14 | UXM5251.D | 04/29/2012 | 20:13 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-10598-1 Analy Batch No.: 42092

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2012 15:41 Calibration End Date: 04/29/2012 17:34 Calibration ID: 8426

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD8260 240-42092/7 | UXM5244.D |
| Level 2 | STD8260 240-42092/6 | UXM5243.D |
| Level 3 | STD8260 240-42092/5 | UXM5242.D |
| Level 4 | STD8260 240-42092/4 | UXM5241.D |
| Level 5 | STD8260 240-42092/3 | UXM5240.D |
| Level 6 | STD8260 240-42092/2 | UXM5239.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Dichlorodifluoromethane | 0.2475<br>0.3038 | 0.2649 | 0.2905 | 0.2889 | 0.3016 | Ave | | 0.2829 | | | 0.1000 | 7.8 | | 15.0 | | | |
| Chloromethane | 0.4695<br>0.4320 | 0.4893 | 0.4830 | 0.4487 | 0.4452 | Ave | | 0.4613 | | | 0.1000 | 4.9 | | 15.0 | | | |
| Vinyl chloride | 0.4202<br>0.4041 | 0.4409 | 0.4365 | 0.4256 | 0.4202 | Ave | | 0.4246 | | | 0.1000 | 3.1 | | 15.0 | | | |
| Bromomethane | 0.1730<br>0.1493 | 0.1760 | 0.1733 | 0.1676 | 0.1710 | Ave | | 0.1684 | | | 0.0500 | 5.8 | | 15.0 | | | |
| Chloroethane | 0.2470<br>0.2229 | 0.2473 | 0.2344 | 0.2374 | 0.2336 | Ave | | 0.2371 | | | | 3.9 | | 15.0 | | | |
| Trichlorofluoromethane | 0.2704<br>0.3132 | 0.3068 | 0.3031 | 0.3070 | 0.3204 | Ave | | 0.3035 | | | 0.1000 | 5.7 | | 15.0 | | | |
| Acrolein | 0.0469<br>0.0473 | 0.0483 | 0.0502 | 0.0508 | 0.0498 | Ave | | 0.0489 | | | | 3.3 | | 15.0 | | | |
| 1,1-Dichloroethene | 0.2340<br>0.2501 | 0.2402 | 0.2424 | 0.2499 | 0.2511 | Ave | | 0.2446 | | | 0.1000 | 2.8 | | 15.0 | | | |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 0.1512<br>0.1622 | 0.1553 | 0.1500 | 0.1479 | 0.1608 | Ave | | 0.1546 | | | 0.0500 | 3.8 | | 15.0 | | | |
| Acetone | 0.2162<br>0.0864 | 0.1595 | 0.1181 | 0.1099 | 0.0970 | Lin1 | 0.2842 | 0.0868 | | | 0.0500 | | | | 0.9960 | | 0.9950 |
| Iodomethane | 0.3345<br>0.3288 | 0.3415 | 0.3505 | 0.3469 | 0.3574 | Ave | | 0.3433 | | | | 3.1 | | 15.0 | | | |
| Carbon disulfide | 0.6238<br>0.8183 | 0.6509 | 0.6976 | 0.7556 | 0.8104 | Ave | | 0.7261 | | | 0.1000 | 11.0 | | 15.0 | | | |
| Acetonitrile | 0.0391<br>0.0299 | 0.0368 | 0.0353 | 0.0335 | 0.0333 | Ave | | 0.0346 | | | | 9.2 | | 15.0 | | | |
| Methyl acetate | 0.2451<br>0.2094 | 0.2377 | 0.2404 | 0.2374 | 0.2264 | Ave | | 0.2327 | | | 0.1000 | 5.6 | | 15.0 | | | |
| Methylene Chloride | 0.4532<br>0.2926 | 0.3791 | 0.3449 | 0.3188 | 0.3120 | Lin1 | 0.1763 | 0.2950 | | | 0.1000 | | | | 0.9990 | | 0.9950 |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-10598-1 Analy Batch No.: 42092

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2012 15:41 Calibration End Date: 04/29/2012 17:34 Calibration ID: 8426

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| tert-Butyl alcohol | 0.0187<br>0.0171 | 0.0206 | 0.0189 | 0.0189 | 0.0192 | Ave | | 0.0189 | | | | 6.0 | | 15.0 | | | |
| Acrylonitrile | 0.1145<br>0.1022 | 0.1105 | 0.1139 | 0.1170 | 0.1105 | Ave | | 0.1114 | | | | 4.6 | | 15.0 | | | |
| trans-1,2-Dichloroethene | 0.2839<br>0.2770 | 0.2945 | 0.2944 | 0.2851 | 0.2889 | Ave | | 0.2873 | | | 0.1000 | 2.4 | | 15.0 | | | |
| Methyl tert-butyl ether | 0.8507<br>0.8216 | 0.8205 | 0.8460 | 0.8461 | 0.8566 | Ave | | 0.8402 | | | 0.1000 | 1.8 | | 15.0 | | | |
| Hexane | 0.0529<br>0.0560 | 0.0521 | 0.0488 | 0.0501 | 0.0574 | Ave | | 0.0529 | | | | 6.3 | | 15.0 | | | |
| 1,1-Dichloroethane | 0.5478<br>0.5504 | 0.5906 | 0.5789 | 0.5698 | 0.5773 | Ave | | 0.5691 | | | 0.1000 | 3.0 | | 15.0 | | | |
| Vinyl acetate | 0.0438<br>0.0547 | 0.0420 | 0.0492 | 0.0562 | 0.0568 | Ave | | 0.0505 | | | | 13.0 | | 15.0 | | | |
| 2-Butanone | 0.1431<br>0.1214 | 0.1392 | 0.1413 | 0.1375 | 0.1314 | Ave | | 0.1356 | | | 0.0500 | 5.9 | | 15.0 | | | |
| cis-1,2-Dichloroethene | 0.3153<br>0.3006 | 0.3006 | 0.3107 | 0.3096 | 0.3157 | Ave | | 0.3087 | | | 0.1000 | 2.2 | | 15.0 | | | |
| 2,2-Dichloropropane | 0.2459<br>0.3076 | 0.2799 | 0.2938 | 0.3057 | 0.3261 | Ave | | 0.2932 | | | | 9.5 | | 15.0 | | | |
| Bromochloromethane | 0.1255<br>0.1262 | 0.1225 | 0.1298 | 0.1329 | 0.1330 | Ave | | 0.1283 | | | | 3.3 | | 15.0 | | | |
| Tetrahydrofuran | 0.0875<br>0.0744 | 0.0826 | 0.0830 | 0.0854 | 0.0842 | Ave | | 0.0828 | | | | 5.4 | | 15.0 | | | |
| Chloroform | 0.5169<br>0.5153 | 0.5299 | 0.5388 | 0.5290 | 0.5477 | Ave | | 0.5296 | | | | 2.4 | | 15.0 | | | |
| 1,1,1-Trichloroethane | 0.3234<br>0.3831 | 0.3500 | 0.3674 | 0.3840 | 0.3986 | Ave | | 0.3678 | | | 0.1000 | 7.4 | | 15.0 | | | |
| Cyclohexane | 0.4217<br>0.4832 | 0.4863 | 0.4431 | 0.4476 | 0.4809 | Ave | | 0.4605 | | | 0.1000 | 5.8 | | 15.0 | | | |
| 1,1-Dichloropropene | 0.4359<br>0.4194 | 0.4199 | 0.4223 | 0.4252 | 0.4356 | Ave | | 0.4264 | | | | 1.8 | | 15.0 | | | |
| Carbon tetrachloride | 0.2456<br>0.3072 | 0.2543 | 0.2617 | 0.2867 | 0.3066 | Ave | | 0.2770 | | | 0.1000 | 9.7 | | 15.0 | | | |
| 1,2-Dichloroethane | 0.4838<br>0.4518 | 0.4761 | 0.4673 | 0.4667 | 0.4711 | Ave | | 0.4694 | | | 0.1000 | 2.3 | | 15.0 | | | |
| Benzene | 1.2256<br>1.2453 | 1.2535 | 1.2750 | 1.2420 | 1.2666 | Ave | | 1.2513 | | | 0.5000 | 1.4 | | 15.0 | | | |
| Trichloroethene | 0.2714<br>0.2655 | 0.2671 | 0.2733 | 0.2695 | 0.2719 | Ave | | 0.2698 | | | 0.2000 | 1.1 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-10598-1 Analy Batch No.: 42092

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2012 15:41 Calibration End Date: 04/29/2012 17:34 Calibration ID: 8426

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Methylcyclohexane | 0.3056<br>0.3781 | 0.3553 | 0.3486 | 0.3331 | 0.3656 | Ave | | 0.3477 | | | 0.1000 | 7.4 | | 15.0 | | | |
| 1,2-Dichloropropane | 0.2994<br>0.3048 | 0.3058 | 0.3148 | 0.3132 | 0.3116 | Ave | | 0.3083 | | | 0.1000 | 1.9 | | 15.0 | | | |
| Dibromomethane | 0.1675<br>0.1555 | 0.1521 | 0.1644 | 0.1597 | 0.1644 | Ave | | 0.1606 | | | | 3.7 | | 15.0 | | | |
| 1,4-Dioxane | 0.0023<br>0.0020 | 0.0024 | 0.0025 | 0.0025 | 0.0025 | Ave | | 0.0024 | | | | 8.2 | | 15.0 | | | |
| Bromodichloromethane | 0.2586<br>0.3533 | 0.2732 | 0.3036 | 0.3210 | 0.3455 | Ave | | 0.3092 | | | 0.1000 | 12.0 | | 15.0 | | | |
| 2-Chloroethyl vinyl ether | 0.1532<br>0.1582 | 0.1459 | 0.1670 | 0.1699 | 0.1653 | Ave | | 0.1599 | | | | 5.8 | | 15.0 | | | |
| cis-1,3-Dichloropropene | 0.3061<br>0.4576 | 0.3249 | 0.3845 | 0.4238 | 0.4469 | Lin1 | -0.212 | 0.4568 | | | 0.1500 | | | | 0.9990 | | 0.9950 |
| 4-Methyl-2-pentanone | 0.2451<br>0.2575 | 0.2540 | 0.2759 | 0.2780 | 0.2752 | Ave | | 0.2643 | | | 0.0500 | 5.3 | | 15.0 | | | |
| Toluene | 1.7728<br>1.9294 | 1.8880 | 1.8619 | 1.8474 | 1.9604 | Ave | | 1.8766 | | | 0.4000 | 3.5 | | 15.0 | | | |
| trans-1,3-Dichloropropene | 0.3835<br>0.6056 | 0.4211 | 0.4964 | 0.5287 | 0.6010 | Lin1 | -0.314 | 0.6041 | | | 0.1000 | | | | 0.9980 | | 0.9950 |
| Ethyl methacrylate | 0.4455<br>0.5778 | 0.5229 | 0.5765 | 0.5788 | 0.6242 | Ave | | 0.5543 | | | | 11.0 | | 15.0 | | | |
| 1,1,2-Trichloroethane | 0.3279<br>0.3212 | 0.3141 | 0.3421 | 0.3341 | 0.3447 | Ave | | 0.3307 | | | 0.1000 | 3.6 | | 15.0 | | | |
| 1,3-Dichloropropane | 0.6891<br>0.6635 | 0.6944 | 0.7152 | 0.6928 | 0.7223 | Ave | | 0.6962 | | | | 3.0 | | 15.0 | | | |
| Tetrachloroethene | 0.2452<br>0.2600 | 0.2630 | 0.2668 | 0.2612 | 0.2738 | Ave | | 0.2617 | | | 0.2000 | 3.6 | | 15.0 | | | |
| 2-Hexanone | 0.2323<br>0.2576 | 0.2818 | 0.2796 | 0.2822 | 0.2852 | Ave | | 0.2698 | | | 0.0500 | 7.8 | | 15.0 | | | |
| Dibromochloromethane | 0.1872<br>0.3114 | 0.2160 | 0.2464 | 0.2709 | 0.3057 | Lin1 | -0.171 | 0.3097 | | | | | | | 0.9980 | | 0.9950 |
| 1,2-Dibromoethane | 0.2962<br>0.3220 | 0.3089 | 0.3344 | 0.3261 | 0.3462 | Ave | | 0.3223 | | | | 5.5 | | 15.0 | | | |
| Chlorobenzene | 1.0759<br>1.0855 | 1.1279 | 1.1114 | 1.0941 | 1.1299 | Ave | | 1.1041 | | | 0.3000 | 2.0 | | 15.0 | | | |
| 1,1,1,2-Tetrachloroethane | 0.2665<br>0.3469 | 0.2706 | 0.3066 | 0.3249 | 0.3538 | Ave | | 0.3116 | | | | 12.0 | | 15.0 | | | |
| Ethylbenzene | 0.5227<br>0.5869 | 0.5825 | 0.6026 | 0.5858 | 0.6163 | Ave | | 0.5828 | | | | 5.5 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-10598-1 Analy Batch No.: 42092

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2012 15:41 Calibration End Date: 04/29/2012 17:34 Calibration ID: 8426

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| m-Xylene & p-Xylene | 0.6757<br>0.7551 | 0.7220 | 0.7191 | 0.7176 | 0.7638 | Ave | | 0.7256 | | | | 4.3 | | 15.0 | | | |
| o-Xylene | 0.6806<br>0.7276 | 0.7176 | 0.7304 | 0.7130 | 0.7551 | Ave | | 0.7207 | | | | 3.4 | | 15.0 | | | |
| Styrene | 1.0565<br>1.2902 | 1.1310 | 1.1966 | 1.1904 | 1.2870 | Ave | | 1.1920 | | | 0.3000 | 7.6 | | 15.0 | | | |
| Bromoform | 0.0815<br>0.1487 | 0.0938 | 0.1133 | 0.1171 | 0.1413 | Lin1 | -0.094 | 0.1455 | | | 0.1000 | | | | 0.9950 | | 0.9950 |
| Isopropylbenzene | 1.5492<br>1.8304 | 1.6861 | 1.6648 | 1.6944 | 1.8507 | Ave | | 1.7126 | | | 0.1000 | 6.6 | | 15.0 | | | |
| 1,1,2,2-Tetrachloroethane | 0.8553<br>0.8338 | 0.9184 | 0.9469 | 0.9293 | 0.9310 | Ave | | 0.9025 | | | 0.3000 | 5.1 | | 15.0 | | | |
| Bromobenzene | 0.8074<br>0.7779 | 0.8287 | 0.8325 | 0.8084 | 0.8409 | Ave | | 0.8159 | | | | 2.8 | | 15.0 | | | |
| 1,2,3-Trichloropropane | 0.2880<br>0.2558 | 0.2803 | 0.2925 | 0.2919 | 0.2938 | Ave | | 0.2837 | | | | 5.1 | | 15.0 | | | |
| trans-1,4-Dichloro-2-butene | 0.2181<br>0.2689 | 0.2471 | 0.2346 | 0.2535 | 0.2845 | Ave | | 0.2511 | | | | 9.5 | | 15.0 | | | |
| n-Propylbenzene | 0.7292<br>0.8665 | 0.8823 | 0.8741 | 0.8947 | 0.9118 | Ave | | 0.8598 | | | | 7.7 | | 15.0 | | | |
| 2-Chlorotoluene | 0.8583<br>0.7918 | 0.8579 | 0.8258 | 0.8361 | 0.8474 | Ave | | 0.8362 | | | | 3.0 | | 15.0 | | | |
| 1,3,5-Trimethylbenzene | 2.5787<br>2.8481 | 2.7830 | 2.7962 | 2.7951 | 2.9477 | Ave | | 2.7914 | | | | 4.3 | | 15.0 | | | |
| 4-Chlorotoluene | 0.8421<br>0.8602 | 0.8907 | 0.8940 | 0.8564 | 0.9136 | Ave | | 0.8762 | | | | 3.1 | | 15.0 | | | |
| tert-Butylbenzene | 2.2870<br>2.5025 | 2.5077 | 2.4568 | 2.4969 | 2.5752 | Ave | | 2.4710 | | | | 4.0 | | 15.0 | | | |
| 1,2,4-Trimethylbenzene | 2.7586<br>2.9544 | 2.8331 | 2.8754 | 2.9504 | 3.0668 | Ave | | 2.9065 | | | | 3.7 | | 15.0 | | | |
| sec-Butylbenzene | 2.8024<br>3.1977 | 3.0238 | 2.9596 | 3.0216 | 3.2137 | Ave | | 3.0365 | | | | 5.1 | | 15.0 | | | |
| 1,3-Dichlorobenzene | 1.5037<br>1.4698 | 1.4901 | 1.5135 | 1.5069 | 1.5495 | Ave | | 1.5056 | | | 0.6000 | 1.8 | | 15.0 | | | |
| p-Isopropyltoluene | 2.2069<br>2.6255 | 2.4647 | 2.4703 | 2.4761 | 2.6715 | Ave | | 2.4858 | | | | 6.6 | | 15.0 | | | |
| 1,4-Dichlorobenzene | 1.6073<br>1.5308 | 1.6512 | 1.5577 | 1.5557 | 1.6211 | Ave | | 1.5873 | | | 0.5000 | 2.9 | | 15.0 | | | |
| n-Butylbenzene | 2.0896<br>2.4436 | 2.2004 | 2.2368 | 2.2659 | 2.4792 | Ave | | 2.2859 | | | | 6.5 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-10598-1 Analy Batch No.: 42092

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2012 15:41 Calibration End Date: 04/29/2012 17:34 Calibration ID: 8426

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 1,2-Dichlorobenzene | 1.4966<br>1.3945 | 1.5126 | 1.5119 | 1.4682 | 1.5239 | Ave | | 1.4846 | | | 0.4000 | 3.2 | | 15.0 | | | |
| 1,2-Dibromo-3-Chloropropane | 0.0886<br>0.0950 | 0.0916 | 0.0904 | 0.0972 | 0.1086 | Ave | | 0.0952 | | | 0.0500 | 7.6 | | 15.0 | | | |
| 1,3,5-Trichlorobenzene | 0.7904<br>0.7093 | 0.7633 | 0.7631 | 0.7837 | 0.8038 | Ave | | 0.7690 | | | | 4.3 | | 15.0 | | | |
| 1,2,4-Trichlorobenzene | 0.6476<br>0.5852 | 0.7228 | 0.7185 | 0.6951 | 0.7215 | Ave | | 0.6818 | | | 0.2000 | 8.1 | | 15.0 | | | |
| Hexachlorobutadiene | 0.2814<br>0.2092 | 0.2884 | 0.2495 | 0.2645 | 0.2531 | Ave | | 0.2577 | | | | 11.0 | | 15.0 | | | |
| Naphthalene | 1.9527<br>1.6802 | 2.0647 | 2.2163 | 2.2497 | 2.2115 | Ave | | 2.0625 | | | | 11.0 | | 15.0 | | | |
| 1,2,3-Trichlorobenzene | 0.6221<br>0.4278 | 0.6296 | 0.6285 | 0.6505 | 0.5938 | Ave | | 0.5920 | | | | 14.0 | | 15.0 | | | |
| Dibromofluoromethane (Surr) | 0.2331<br>0.2366 | 0.2278 | 0.2460 | 0.2403 | 0.2499 | Ave | | 0.2389 | | | | 3.4 | | 15.0 | | | |
| 1,2-Dichloroethane-d4 (Surr) | 0.4238<br>0.3659 | 0.3675 | 0.3946 | 0.3884 | 0.3801 | Ave | | 0.3867 | | | | 5.5 | | 15.0 | | | |
| Toluene-d8 (Surr) | 1.5539<br>1.5702 | 1.4814 | 1.5599 | 1.5466 | 1.5977 | Ave | | 1.5516 | | | | 2.5 | | 15.0 | | | |
| 4-Bromofluorobenzene (Surr) | 0.5499<br>0.5492 | 0.5504 | 0.5556 | 0.5412 | 0.5764 | Ave | | 0.5538 | | | | 2.2 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-10598-1 Analy Batch No.: 42092

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2012 15:41 Calibration End Date: 04/29/2012 17:34 Calibration ID: 8426

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD8260 240-42092/7 | UXM5244.D |
| Level 2 | STD8260 240-42092/6 | UXM5243.D |
| Level 3 | STD8260 240-42092/5 | UXM5242.D |
| Level 4 | STD8260 240-42092/4 | UXM5241.D |
| Level 5 | STD8260 240-42092/3 | UXM5240.D |
| Level 6 | STD8260 240-42092/2 | UXM5239.D |

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Dichlorodifluoromethane | FB | Ave | 35885<br>1980706 | 77645 | 213757 | 441965 | 926938 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Chloromethane | FB | Ave | 68054<br>2816599 | 143417 | 355421 | 686521 | 1368025 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Vinyl chloride | FB | Ave | 60917<br>2635065 | 129233 | 321221 | 651141 | 1291232 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Bromomethane | FB | Ave | 25083<br>973652 | 51574 | 127563 | 256449 | 525557 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Chloroethane | FB | Ave | 35804<br>1453341 | 72482 | 172479 | 363159 | 717903 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Trichlorofluoromethane | FB | Ave | 39202<br>2042282 | 89918 | 223037 | 469710 | 984559 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Acrolein | FB | Ave | 68008<br>3085342 | 141530 | 369770 | 777854 | 1531686 | 10.0<br>400 | 20.0 | 50.0 | 100 | 200 |
| 1,1-Dichloroethene | FB | Ave | 33918<br>1630889 | 70410 | 178421 | 382278 | 771598 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | FB | Ave | 21921<br>1057686 | 45508 | 110360 | 226331 | 494002 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Acetone | FB | Lin1 | 62683<br>1127237 | 93486 | 173839 | 336387 | 595897 | 2.00<br>80.0 | 4.00 | 10.0 | 20.0 | 40.0 |
| Iodomethane | FB | Ave | 48493<br>2144017 | 100103 | 257965 | 530730 | 1098294 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Carbon disulfide | FB | Ave | 90427<br>5335771 | 190797 | 513352 | 1156089 | 2490300 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Acetonitrile | FB | Ave | 56749<br>1947368 | 107775 | 259776 | 513045 | 1022838 | 10.0<br>400 | 20.0 | 50.0 | 100 | 200 |
| Methyl acetate | FB | Ave | 71069<br>2730691 | 139317 | 353813 | 726384 | 1391336 | 2.00<br>80.0 | 4.00 | 10.0 | 20.0 | 40.0 |
| Methylene Chloride | FB | Lin1 | 65695<br>1907926 | 111106 | 253801 | 487762 | 958858 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| tert-Butyl alcohol | FB | Ave | 54296<br>2230486 | 121019 | 278401 | 577732 | 1181799 | 20.0<br>800 | 40.0 | 100 | 200 | 400 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-10598-1 Analy Batch No.: 42092

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2012 15:41 Calibration End Date: 04/29/2012 17:34 Calibration ID: 8426

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Acrylonitrile | FB | Ave | 33199<br>1332502 | 64764 | 167664 | 357877 | 679313 | 2.00<br>80.0 | 4.00 | 10.0 | 20.0 | 40.0 |
| trans-1,2-Dichloroethene | FB | Ave | 41156<br>1805850 | 86315 | 216661 | 436186 | 887809 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Methyl tert-butyl ether | FB | Ave | 123316<br>5356990 | 240492 | 622584 | 1294546 | 2632357 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Hexane | FB | Ave | 7664<br>364870 | 15284 | 35939 | 76608 | 176542 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,1-Dichloroethane | FB | Ave | 79407<br>3589145 | 173107 | 426021 | 871835 | 1773954 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Vinyl acetate | FB | Ave | 6355<br>356768 | 12300 | 36192 | 86048 | 174699 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 2-Butanone | FB | Ave | 41482<br>1583175 | 81587 | 207910 | 420664 | 807827 | 2.00<br>80.0 | 4.00 | 10.0 | 20.0 | 40.0 |
| cis-1,2-Dichloroethene | FB | Ave | 45701<br>1960017 | 88112 | 228624 | 473715 | 970100 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 2,2-Dichloropropane | FB | Ave | 35648<br>2005803 | 82038 | 216190 | 467681 | 1002264 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Bromochloromethane | FB | Ave | 18189<br>822935 | 35913 | 95509 | 203401 | 408648 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Tetrahydrofuran | FB | Ave | 12689<br>485231 | 24197 | 61085 | 130645 | 258628 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Chloroform | FB | Ave | 74928<br>3359863 | 155328 | 396473 | 809345 | 1683052 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,1,1-Trichloroethane | FB | Ave | 46880<br>2498258 | 102599 | 270389 | 587525 | 1225053 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Cyclohexane | FB | Ave | 61130<br>3150583 | 142538 | 326094 | 684755 | 1477804 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,1-Dichloropropene | FB | Ave | 63188<br>2734618 | 123064 | 310759 | 650531 | 1338590 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Carbon tetrachloride | FB | Ave | 35596<br>2003224 | 74531 | 192609 | 438606 | 942348 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,2-Dichloroethane | FB | Ave | 70126<br>2945634 | 139538 | 343914 | 713992 | 1447593 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Benzene | FB | Ave | 177668<br>8119748 | 367399 | 938261 | 1900238 | 3892190 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Trichloroethene | FB | Ave | 39339<br>1731358 | 78290 | 201140 | 412335 | 835509 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Methylcyclohexane | FB | Ave | 44297<br>2465241 | 104143 | 256548 | 509583 | 1123367 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,2-Dichloropropane | FB | Ave | 43403<br>1987718 | 89635 | 231666 | 479240 | 957503 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-10598-1 Analy Batch No.: 42092

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2012 15:41 Calibration End Date: 04/29/2012 17:34 Calibration ID: 8426

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Dibromomethane | FB | Ave | 24282<br>1014093 | 44570 | 121000 | 244410 | 505175 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,4-Dioxane | FB | Ave | 16576<br>659305 | 35560 | 90656 | 190747 | 391761 | 50.0<br>2000 | 100 | 250 | 500 | 1000 |
| Bromodichloromethane | FB | Ave | 37481<br>2303873 | 80071 | 223410 | 491180 | 1061629 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 2-Chloroethyl vinyl ether | FB | Ave | 44406<br>2063070 | 85505 | 245756 | 519803 | 1016253 | 2.00<br>80.0 | 4.00 | 10.0 | 20.0 | 40.0 |
| cis-1,3-Dichloropropene | FB | Lin1 | 44366<br>2983706 | 95217 | 282978 | 648461 | 1373441 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 4-Methyl-2-pentanone | FB | Ave | 71052<br>3358613 | 148911 | 406020 | 850832 | 1691407 | 2.00<br>80.0 | 4.00 | 10.0 | 20.0 | 40.0 |
| Toluene | CBZ | Ave | 173321<br>8413844 | 364692 | 910325 | 1915731 | 3926815 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| trans-1,3-Dichloropropene | CBZ | Lin1 | 37498<br>2640993 | 81347 | 242683 | 548215 | 1203917 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Ethyl methacrylate | CBZ | Ave | 43557<br>2519754 | 100996 | 281867 | 600178 | 1250367 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,1,2-Trichloroethane | CBZ | Ave | 32062<br>1400847 | 60672 | 167279 | 346503 | 690523 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,3-Dichloropropane | CBZ | Ave | 67375<br>2893528 | 134135 | 349671 | 718457 | 1446895 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Tetrachloroethene | CBZ | Ave | 23974<br>1134016 | 50793 | 130464 | 270912 | 548439 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 2-Hexanone | CBZ | Ave | 45416<br>2246833 | 108870 | 273438 | 585245 | 1142606 | 2.00<br>80.0 | 4.00 | 10.0 | 20.0 | 40.0 |
| Dibromochloromethane | CBZ | Lin1 | 18304<br>1357782 | 41724 | 120488 | 280880 | 612329 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,2-Dibromoethane | CBZ | Ave | 28960<br>1404286 | 59664 | 163482 | 338113 | 693547 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Chlorobenzene | CBZ | Ave | 105191<br>4733672 | 217868 | 543385 | 1134607 | 2263366 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,1,1,2-Tetrachloroethane | CBZ | Ave | 26058<br>1512891 | 52279 | 149910 | 336962 | 708703 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Ethylbenzene | CBZ | Ave | 51103<br>2559405 | 112518 | 294632 | 607431 | 1234615 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| m-Xylene & p-Xylene | CBZ | Ave | 132121<br>6585856 | 278940 | 703188 | 1488195 | 3060062 | 2.00<br>80.0 | 4.00 | 10.0 | 20.0 | 40.0 |
| o-Xylene | CBZ | Ave | 66541<br>3173134 | 138606 | 357130 | 739399 | 1512511 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Styrene | CBZ | Ave | 103288<br>5626230 | 218474 | 585061 | 1234437 | 2578106 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-10598-1 Analy Batch No.: 42092

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2012 15:41 Calibration End Date: 04/29/2012 17:34 Calibration ID: 8426

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Bromoform | CBZ | Lin1 | 7969<br>648344 | 18118 | 55408 | 121431 | 283016 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Isopropylbenzene | CBZ | Ave | 151460<br>7982152 | 325696 | 813952 | 1757043 | 3707115 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,1,2,2-Tetrachloroethane | DCB | Ave | 39154<br>1824334 | 86153 | 226349 | 464104 | 921979 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Bromobenzene | DCB | Ave | 36958<br>1702050 | 77737 | 198983 | 403705 | 832802 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,2,3-Trichloropropane | DCB | Ave | 13182<br>559668 | 26291 | 69913 | 145766 | 291005 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| trans-1,4-Dichloro-2-butene | DCB | Ave | 9983<br>588408 | 23177 | 56072 | 126610 | 281722 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| n-Propylbenzene | DCB | Ave | 33381<br>1896081 | 82760 | 208940 | 446839 | 902975 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 2-Chlorotoluene | DCB | Ave | 39291<br>1732447 | 80476 | 197398 | 417562 | 839275 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,3,5-Trimethylbenzene | DCB | Ave | 118040<br>6231859 | 261059 | 668378 | 1395891 | 2919244 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 4-Chlorotoluene | DCB | Ave | 38548<br>1882105 | 83551 | 213705 | 427671 | 904798 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| tert-Butylbenzene | DCB | Ave | 104687<br>5475645 | 235235 | 587256 | 1246967 | 2550345 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,2,4-Trimethylbenzene | DCB | Ave | 126276<br>6464529 | 265761 | 687322 | 1473461 | 3037207 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| sec-Butylbenzene | DCB | Ave | 128284<br>6996931 | 283652 | 707440 | 1509023 | 3182710 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,3-Dichlorobenzene | DCB | Ave | 68832<br>3216077 | 139781 | 361776 | 752571 | 1534518 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| p-Isopropyltoluene | DCB | Ave | 101022<br>5744842 | 231206 | 590475 | 1236559 | 2645753 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,4-Dichlorobenzene | DCB | Ave | 73576<br>3349475 | 154891 | 372339 | 776907 | 1605428 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| n-Butylbenzene | DCB | Ave | 95655<br>5346731 | 206411 | 534670 | 1131581 | 2455279 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,2-Dichlorobenzene | DCB | Ave | 68510<br>3051238 | 141891 | 361399 | 733205 | 1509157 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,2-Dibromo-3-Chloropropane | DCB | Ave | 4054<br>207890 | 8593 | 21620 | 48540 | 107543 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,3,5-Trichlorobenzene | DCB | Ave | 36183<br>1552119 | 71605 | 182409 | 391395 | 796044 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,2,4-Trichlorobenzene | DCB | Ave | 29643<br>1280551 | 67798 | 171750 | 347154 | 714527 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-10598-1 Analy Batch No.: 42092

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2012 15:41 Calibration End Date: 04/29/2012 17:34 Calibration ID: 8426

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Hexachlorobutadiene | DCB | Ave | 12883<br>457756 | 27055 | 59629 | 132088 | 250690 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Naphthalene | DCB | Ave | 89388<br>3676449 | 193683 | 529762 | 1123493 | 2190121 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,2,3-Trichlorobenzene | DCB | Ave | 28475<br>936111 | 59064 | 150229 | 324862 | 588048 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Dibromofluoromethane (Surr) | FB | Ave | 33786<br>1543057 | 66758 | 181044 | 367622 | 767961 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,2-Dichloroethane-d4 (Surr) | FB | Ave | 61436<br>2385669 | 107729 | 290422 | 594253 | 1168069 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Toluene-d8 (Surr) | CBZ | Ave | 151916<br>6847384 | 286160 | 762662 | 1603788 | 3200285 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 4-Bromofluorobenzene (Surr) | CBZ | Ave | 53765<br>2394878 | 106312 | 271656 | 561195 | 1154675 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |

Curve Type Legend:
Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-10598-1 Analy Batch No.: 42092

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2012 17:57 Calibration End Date: 04/29/2012 19:50 Calibration ID: 8428

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD6 240-42092/13 | UXM5250.D |
| Level 2 | STD5 240-42092/12 | UXM5249.D |
| Level 3 | STD4 240-42092/11 | UXM5248.D |
| Level 4 | STD3 240-42092/10 | UXM5247.D |
| Level 5 | STD2 240-42092/9 | UXM5246.D |
| Level 6 | STD1 240-42092/8 | UXM5245.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Dichlorofluoromethane | 0.4944<br>0.5457 | 0.5179 | 0.5366 | 0.5411 | 0.5388 | Ave | | 0.5291 | | | | 3.7 | | 15.0 | | | |
| Ethyl ether | 0.2959<br>0.3118 | 0.3149 | 0.3299 | 0.3322 | 0.3247 | Ave | | 0.3182 | | | | 4.3 | | 15.0 | | | |
| 3-Chloro-1-propene | 0.1138<br>0.1626 | 0.1307 | 0.1332 | 0.1472 | 0.1572 | Ave | | 0.1408 | | | | 13.0 | | 15.0 | | | |
| Diisopropyl ether | 0.2325<br>0.3039 | 0.2698 | 0.2820 | 0.2880 | 0.2888 | Ave | | 0.2775 | | | | 8.9 | | 15.0 | | | |
| 2-Chloro-1,3-butadiene | 0.4443<br>0.5618 | 0.4913 | 0.5190 | 0.5386 | 0.5385 | Ave | | 0.5156 | | | | 8.2 | | 15.0 | | | |
| Ethyl-t-butyl ether (ETBE) | 0.7557<br>0.9819 | 0.8293 | 0.9029 | 0.9314 | 0.9383 | Ave | | 0.8899 | | | | 9.3 | | 15.0 | | | |
| Propionitrile | 0.0349<br>0.0408 | 0.0346 | 0.0382 | 0.0420 | 0.0412 | Ave | | 0.0386 | | | | 8.5 | | 15.0 | | | |
| Ethyl acetate | 0.2532<br>0.2900 | 0.2546 | 0.2741 | 0.2771 | 0.2824 | Ave | | 0.2719 | | | | 5.5 | | 15.0 | | | |
| Methacrylonitrile | 0.1606<br>0.2023 | 0.1897 | 0.1949 | 0.2046 | 0.2003 | Ave | | 0.1921 | | | | 8.5 | | 15.0 | | | |
| Isobutyl alcohol | 0.0077<br>0.0091 | 0.0077 | 0.0086 | 0.0094 | 0.0092 | Ave | | 0.0086 | | | | 8.8 | | 15.0 | | | |
| Tert-amyl-methyl ether (TAME) | 0.5871<br>0.7972 | 0.6671 | 0.7241 | 0.7535 | 0.7651 | Ave | | 0.7157 | | | | 11.0 | | 15.0 | | | |
| n-Heptane | 0.0338<br>0.0458 | 0.0359 | 0.0418 | 0.0425 | 0.0440 | Ave | | 0.0406 | | | | 12.0 | | 15.0 | | | |
| n-Butanol | 0.0041<br>0.0069 | 0.0052 | 0.0059 | 0.0064 | 0.0070 | Lin1 | -0.068 | 0.0070 | | | | | | | 0.9990 | | 0.9950 |
| 2-Nitropropane | 0.0349<br>0.0534 | 0.0349 | 0.0424 | 0.0409 | 0.0453 | Qua | 0 | 0.0373 | 0.0002 | | | | | | 1.0000 | | 0.9900 |
| Cyclohexanone | 0.0676<br>0.1071 | 0.0696 | 0.0924 | 0.0940 | 0.1083 | Lin1 | -0.573 | 0.1077 | | | | | | | 0.9980 | | 0.9950 |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-10598-1 Analy Batch No.: 42092

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2012 17:57 Calibration End Date: 04/29/2012 19:50 Calibration ID: 8428

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 1,2,3-Trimethylbenzene | 2.3062<br>3.3384 | 2.8522 | 3.0020 | 3.1126 | 3.2823 | Ave | | 2.9823 | | | | 13.0 | | 15.0 | | | |
| 2-Methylnaphthalene | 0.5487<br>0.8482 | 0.7229 | 0.8158 | 0.9225 | 1.0313 | Qua | -2.422 | 1.2182 | -0.004 | | | | | | 0.9970 | | 0.9900 |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-10598-1 Analy Batch No.: 42092

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2012 17:57 Calibration End Date: 04/29/2012 19:50 Calibration ID: 8428

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD6 240-42092/13 | UXM5250.D |
| Level 2 | STD5 240-42092/12 | UXM5249.D |
| Level 3 | STD4 240-42092/11 | UXM5248.D |
| Level 4 | STD3 240-42092/10 | UXM5247.D |
| Level 5 | STD2 240-42092/9 | UXM5246.D |
| Level 6 | STD1 240-42092/8 | UXM5245.D |

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Dichlorofluoromethane | FB | Ave | 74598<br>3240218 | 146412 | 376630 | 789014 | 1566079 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Ethyl ether | FB | Ave | 44644<br>1851341 | 89012 | 231543 | 484302 | 943782 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 3-Chloro-1-propene | FB | Ave | 17177<br>965704 | 36949 | 93484 | 214615 | 456905 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Diisopropyl ether | FB | Ave | 175389<br>9021702 | 381358 | 989616 | 2099629 | 4197719 | 5.00<br>200 | 10.0 | 25.0 | 50.0 | 100 |
| 2-Chloro-1,3-butadiene | FB | Ave | 67037<br>3335483 | 138884 | 364302 | 785295 | 1565439 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Ethyl-t-butyl ether (ETBE) | FB | Ave | 114038<br>5829697 | 234431 | 633692 | 1358093 | 2727406 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Propionitrile | FB | Ave | 10519<br>484864 | 19537 | 53643 | 122521 | 239365 | 2.00<br>80.0 | 4.00 | 10.0 | 20.0 | 40.0 |
| Ethyl acetate | FB | Ave | 76413<br>3443932 | 143929 | 384742 | 808060 | 1641769 | 2.00<br>80.0 | 4.00 | 10.0 | 20.0 | 40.0 |
| Methacrylonitrile | FB | Ave | 24236<br>1201419 | 53633 | 136829 | 298324 | 582158 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Isobutyl alcohol | FB | Ave | 23378<br>1085228 | 43306 | 121353 | 274103 | 534944 | 20.0<br>800 | 40.0 | 100 | 200 | 400 |
| Tert-amyl-methyl ether (TAME) | FB | Ave | 88590<br>4733198 | 188598 | 508209 | 1098573 | 2224035 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| n-Heptane | FB | Ave | 5104<br>272147 | 10152 | 29307 | 62019 | 127766 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| n-Butanol | FB | Lin1 | 12500<br>823386 | 29417 | 83258 | 186498 | 409174 | 20.0<br>800 | 40.0 | 100 | 200 | 400 |
| 2-Nitropropane | FB | Qua | 10528<br>633675 | 19709 | 59496 | 119215 | 263103 | 2.00<br>80.0 | 4.00 | 10.0 | 20.0 | 40.0 |
| Cyclohexanone | DCB | Lin1 | 32243<br>1979275 | 60655 | 200382 | 427297 | 962192 | 10.0<br>400 | 20.0 | 50.0 | 100 | 200 |
| 1,2,3-Trimethylbenzene | DCB | Ave | 110047<br>6167616 | 248432 | 651353 | 1415601 | 2917084 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-10598-1 Analy Batch No.: 42092

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2012 17:57 Calibration End Date: 04/29/2012 19:50 Calibration ID: 8428

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| 2-Methylnaphthalene | DCB | Qua | 52371<br>3134049 | 125934 | 353992 | 839119 | 1833171 | 2.00<br>80.0 | 4.00 | 10.0 | 20.0 | 40.0 |

Curve Type Legend:

| |
|---|
| Ave = Average ISTD |
| Lin1 = Linear 1/conc ISTD |
| Qua = Quadratic ISTD |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Lab Sample ID: ICV 240-42092/14 Calibration Date: 04/29/2012 20:13

Instrument ID: A3UX16 Calib Start Date: 04/29/2012 15:41

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/29/2012 17:34

Lab File ID: UXM5251.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | Ave | 0.2829 | 0.2340 | 0.1000 | 8.27 | 10.0 | -17.3 | 20.0 |
| Chloromethane | Ave | 0.4613 | 0.4720 | 0.1000 | 10.2 | 10.0 | 2.3 | 20.0 |
| Vinyl chloride | Ave | 0.4246 | 0.4443 | 0.1000 | 10.5 | 10.0 | 4.6 | 20.0 |
| Bromomethane | Ave | 0.1684 | 0.1539 | 0.0500 | 9.14 | 10.0 | -8.6 | 20.0 |
| Chloroethane | Ave | 0.2371 | 0.2329 | 0.0500 | 9.82 | 10.0 | -1.8 | 20.0 |
| Trichlorofluoromethane | Ave | 0.3035 | 0.3240 | 0.1000 | 10.7 | 10.0 | 6.8 | 20.0 |
| Acrolein | Ave | 0.0489 | 0.0264 | | 16.2 | 30.0 | -46.0* | 20.0 |
| 1,1-Dichloroethene | Ave | 0.2446 | 0.2652 | 0.1000 | 10.8 | 10.0 | 8.4 | 20.0 |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | Ave | 0.1546 | 0.1709 | 0.0500 | 11.1 | 10.0 | 10.6 | 20.0 |
| Acetone | Lin1 | | 0.1057 | 0.0500 | 21.1 | 20.0 | 5.5 | 20.0 |
| Iodomethane | Ave | 0.3433 | 0.3416 | | 9.95 | 10.0 | -0.5 | 20.0 |
| Carbon disulfide | Ave | 0.7261 | 0.7042 | 0.1000 | 9.70 | 10.0 | -3.0 | 20.0 |
| Acetonitrile | Ave | 0.0346 | 0.0393 | | 34.0 | 30.0 | 13.4 | 20.0 |
| Methyl acetate | Ave | 0.2327 | 0.2751 | 0.1000 | 11.8 | 10.0 | 18.2 | 20.0 |
| Methylene Chloride | Lin1 | | 0.3299 | 0.1000 | 10.6 | 10.0 | 6.0 | 20.0 |
| tert-Butyl alcohol | Ave | 0.0189 | 0.0195 | | 207 | 200 | 3.2 | 20.0 |
| Acrylonitrile | Ave | 0.1114 | 0.1186 | | 31.9 | 30.0 | 6.5 | 20.0 |
| Methyl tert-butyl ether | Ave | 0.8402 | 0.8405 | 0.1000 | 10.0 | 10.0 | 0.0 | 20.0 |
| trans-1,2-Dichloroethene | Ave | 0.2873 | 0.2952 | 0.1000 | 10.3 | 10.0 | 2.7 | 20.0 |
| Hexane | Ave | 0.0529 | 0.0579 | | 10.9 | 10.0 | 9.4 | 20.0 |
| 1,1-Dichloroethane | Ave | 0.5691 | 0.6028 | 0.1000 | 10.6 | 10.0 | 5.9 | 20.0 |
| Vinyl acetate | Ave | 0.0505 | 0.0387 | | 7.67 | 10.0 | -23.3* | 20.0 |
| 2-Butanone | Ave | 0.1356 | 0.1389 | 0.0500 | 20.5 | 20.0 | 2.4 | 20.0 |
| 2,2-Dichloropropane | Ave | 0.2932 | 0.2855 | | 9.74 | 10.0 | -2.6 | 20.0 |
| cis-1,2-Dichloroethene | Ave | 0.3087 | 0.3186 | 0.1000 | 10.3 | 10.0 | 3.2 | 20.0 |
| Bromochloromethane | Ave | 0.1283 | 0.1312 | | 10.2 | 10.0 | 2.2 | 20.0 |
| Tetrahydrofuran | Ave | 0.0828 | 0.0852 | | 10.3 | 10.0 | 2.9 | 20.0 |
| Chloroform | Ave | 0.5296 | 0.5462 | 0.2000 | 10.3 | 10.0 | 3.1 | 20.0 |
| 1,1,1-Trichloroethane | Ave | 0.3678 | 0.3794 | 0.1000 | 10.3 | 10.0 | 3.2 | 20.0 |
| Cyclohexane | Ave | 0.4605 | 0.4767 | 0.1000 | 10.4 | 10.0 | 3.5 | 20.0 |
| 1,1-Dichloropropene | Ave | 0.4264 | 0.4383 | | 10.3 | 10.0 | 2.8 | 20.0 |
| Carbon tetrachloride | Ave | 0.2770 | 0.2912 | 0.1000 | 10.5 | 10.0 | 5.1 | 20.0 |
| 1,2-Dichloroethane | Ave | 0.4694 | 0.4938 | 0.1000 | 10.5 | 10.0 | 5.2 | 20.0 |
| Benzene | Ave | 1.251 | 1.319 | 0.5000 | 10.5 | 10.0 | 5.4 | 20.0 |
| Trichloroethene | Ave | 0.2698 | 0.2968 | 0.2000 | 11.0 | 10.0 | 10.0 | 20.0 |
| 1,2-Dichloropropane | Ave | 0.3083 | 0.3319 | 0.1000 | 10.8 | 10.0 | 7.7 | 20.0 |
| Methylcyclohexane | Ave | 0.3477 | 0.3665 | 0.1000 | 10.5 | 10.0 | 5.4 | 20.0 |
| Dibromomethane | Ave | 0.1606 | 0.1738 | | 10.8 | 10.0 | 8.2 | 20.0 |
| Bromodichloromethane | Ave | 0.3092 | 0.3331 | 0.1000 | 10.8 | 10.0 | 7.7 | 20.0 |
| 2-Chloroethyl vinyl ether | Ave | 0.1599 | 0.1722 | | 10.8 | 10.0 | 7.7 | 20.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-10598-1

SDG No.:

Lab Sample ID: ICV 240-42092/14  Calibration Date: 04/29/2012 20:13

Instrument ID: A3UX16  Calib Start Date: 04/29/2012 15:41

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 04/29/2012 17:34

Lab File ID: UXM5251.D  Conc. Units: ug/L  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | Lin1 | | 0.4089 | 0.1500 | 9.41 | 10.0 | -5.9 | 20.0 |
| 4-Methyl-2-pentanone | Ave | 0.2643 | 0.2914 | 0.0500 | 22.1 | 20.0 | 10.3 | 20.0 |
| Toluene | Ave | 1.877 | 1.918 | 0.4000 | 10.2 | 10.0 | 2.2 | 20.0 |
| trans-1,3-Dichloropropene | Lin1 | | 0.5291 | 0.1000 | 9.28 | 10.0 | -7.2 | 20.0 |
| 1,1,2-Trichloroethane | Ave | 0.3307 | 0.3442 | 0.1000 | 10.4 | 10.0 | 4.1 | 20.0 |
| 1,3-Dichloropropane | Ave | 0.6962 | 0.7105 | | 10.2 | 10.0 | 2.0 | 20.0 |
| Tetrachloroethene | Ave | 0.2617 | 0.2644 | 0.2000 | 10.1 | 10.0 | 1.0 | 20.0 |
| 2-Hexanone | Ave | 0.2698 | 0.2927 | 0.0500 | 21.7 | 20.0 | 8.5 | 20.0 |
| Dibromochloromethane | Lin1 | | 0.2623 | | 9.02 | 10.0 | -9.8 | 20.0 |
| 1,2-Dibromoethane | Ave | 0.3223 | 0.3341 | | 10.4 | 10.0 | 3.7 | 20.0 |
| Chlorobenzene | Ave | 1.104 | 1.136 | 0.3000 | 10.3 | 10.0 | 2.8 | 20.0 |
| 1,1,1,2-Tetrachloroethane | Ave | 0.3116 | 0.3283 | | 10.5 | 10.0 | 5.4 | 20.0 |
| Ethylbenzene | Ave | 0.5828 | 0.6250 | | 10.7 | 10.0 | 7.2 | 20.0 |
| m-Xylene & p-Xylene | Ave | 0.7256 | 0.7452 | | 20.5 | 20.0 | 2.7 | 20.0 |
| o-Xylene | Ave | 0.7207 | 0.7518 | | 10.4 | 10.0 | 4.3 | 20.0 |
| Styrene | Ave | 1.192 | 1.255 | 0.3000 | 10.5 | 10.0 | 5.3 | 20.0 |
| Bromoform | Lin1 | | 0.1220 | 0.1000 | 9.03 | 10.0 | -9.7 | 20.0 |
| Isopropylbenzene | Ave | 1.713 | 1.779 | 0.1000 | 10.4 | 10.0 | 3.9 | 20.0 |
| 1,1,2,2-Tetrachloroethane | Ave | 0.9025 | 0.9195 | 0.3000 | 10.2 | 10.0 | 1.9 | 20.0 |
| Bromobenzene | Ave | 0.8159 | 0.8010 | | 9.82 | 10.0 | -1.8 | 20.0 |
| 1,2,3-Trichloropropane | Ave | 0.2837 | 0.2982 | | 10.5 | 10.0 | 5.1 | 20.0 |
| trans-1,4-Dichloro-2-butene | Ave | 0.2511 | 0.2617 | | 20.8 | 20.0 | 4.2 | 20.0 |
| n-Propylbenzene | Ave | 0.8598 | 0.9010 | | 10.5 | 10.0 | 4.8 | 20.0 |
| 2-Chlorotoluene | Ave | 0.8362 | 0.8214 | | 9.82 | 10.0 | -1.8 | 20.0 |
| 1,3,5-Trimethylbenzene | Ave | 2.791 | 2.836 | | 10.2 | 10.0 | 1.6 | 20.0 |
| 4-Chlorotoluene | Ave | 0.8762 | 0.8813 | | 10.1 | 10.0 | 0.6 | 20.0 |
| tert-Butylbenzene | Ave | 2.471 | 2.497 | | 10.1 | 10.0 | 1.1 | 20.0 |
| 1,2,4-Trimethylbenzene | Ave | 2.906 | 2.988 | | 10.3 | 10.0 | 2.8 | 20.0 |
| sec-Butylbenzene | Ave | 3.036 | 3.064 | | 10.1 | 10.0 | 0.9 | 20.0 |
| 1,3-Dichlorobenzene | Ave | 1.506 | 1.484 | 0.6000 | 9.85 | 10.0 | -1.5 | 20.0 |
| p-Isopropyltoluene | Ave | 2.486 | 2.579 | | 10.4 | 10.0 | 3.8 | 20.0 |
| 1,4-Dichlorobenzene | Ave | 1.587 | 1.584 | 0.5000 | 9.98 | 10.0 | -0.2 | 20.0 |
| n-Butylbenzene | Ave | 2.286 | 2.295 | | 10.0 | 10.0 | 0.4 | 20.0 |
| 1,2-Dichlorobenzene | Ave | 1.485 | 1.504 | 0.4000 | 10.1 | 10.0 | 1.3 | 20.0 |
| 1,2-Dibromo-3-Chloropropane | Ave | 0.0952 | 0.1049 | 0.0500 | 11.0 | 10.0 | 10.1 | 20.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.6818 | 0.6660 | 0.2000 | 9.77 | 10.0 | -2.3 | 20.0 |
| Hexachlorobutadiene | Ave | 0.2577 | 0.2217 | | 8.60 | 10.0 | -14.0 | 20.0 |
| Naphthalene | Ave | 2.063 | 2.211 | | 10.7 | 10.0 | 7.2 | 20.0 |
| 1,2,3-Trichlorobenzene | Ave | 0.5920 | 0.6250 | | 10.6 | 10.0 | 5.6 | 20.0 |
| Dibromofluoromethane (Surr) | Ave | 0.2389 | 0.2274 | | 9.72 | 10.2 | -4.8 | 20.0 |
| 1,2-Dichloroethane-d4 (Surr) | Ave | 0.3867 | 0.3583 | | 9.46 | 10.2 | -7.3 | 20.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Lab Sample ID: ICV 240-42092/14 Calibration Date: 04/29/2012 20:13

Instrument ID: A3UX16 Calib Start Date: 04/29/2012 15:41

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/29/2012 17:34

Lab File ID: UXM5251.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Toluene-d8 (Surr) | Ave | 1.552 | 1.491 | | 9.81 | 10.2 | -3.9 | 20.0 |
| 4-Bromofluorobenzene (Surr) | Ave | 0.5538 | 0.5469 | | 10.1 | 10.2 | -1.2 | 20.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-10598-1

SDG No.:

Lab Sample ID: ICV 240-42092/14  Calibration Date: 04/29/2012 20:13

Instrument ID: A3UX16  Calib Start Date: 04/29/2012 17:57

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 04/29/2012 19:50

Lab File ID: UXM5251.D  Conc. Units: ug/L  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Ethyl ether | Ave | 0.3182 | 0.3065 | | 9.63 | 10.0 | -3.7 | 20.0 |
| Diisopropyl ether | Ave | 0.2775 | 0.2745 | | 9.89 | 10.0 | -1.1 | 20.0 |
| Isobutyl alcohol | Ave | 0.0086 | 0.0091 | | 527 | 500 | 5.4 | 20.0 |
| Cyclohexanone | Lin1 | | 0.0256 | | 52.9 | 200 | -73.6* | 20.0 |
| 1,2,3-Trimethylbenzene | Ave | 2.982 | 3.178 | | 10.7 | 10.0 | 6.6 | 20.0 |

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Instrument ID: A3UX16 Start Date: 04/30/2012 11:22

Analysis Batch Number: 42171 End Date: 04/30/2012 18:11

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| BFB 240-42171/1 | | 04/30/2012 11:22 | 1 | BFB2916.D | DB-624 0.18(mm) |
| CCVIS 240-42171/2 | | 04/30/2012 11:50 | 1 | UXM5270.D | DB-624 0.18(mm) |
| CCV 240-42171/3 | | 04/30/2012 12:13 | 1 | UXM5271.D | DB-624 0.18(mm) |
| LCS 240-42171/4 | | 04/30/2012 12:36 | 1 | UXM5272.D | DB-624 0.18(mm) |
| MB 240-42171/5 | | 04/30/2012 12:59 | 1 | UXM5273.D | DB-624 0.18(mm) |
| ZZZZZ | | 04/30/2012 13:34 | 1 | | DB-624 0.18(mm) |
| ZZZZZ | | 04/30/2012 14:00 | 1 | | DB-624 0.18(mm) |
| ZZZZZ | | 04/30/2012 14:23 | 1 | | DB-624 0.18(mm) |
| 240-10598-1 | TB-042412 | 04/30/2012 14:46 | 1 | UXM5277.D | DB-624 0.18(mm) |
| 240-10598-2 | MT-MW04S | 04/30/2012 15:09 | 1 | UXM5278.D | DB-624 0.18(mm) |
| 240-10598-3 | MT-MW06S | 04/30/2012 15:31 | 1 | UXM5279.D | DB-624 0.18(mm) |
| ZZZZZ | | 04/30/2012 15:54 | 1 | | DB-624 0.18(mm) |
| ZZZZZ | | 04/30/2012 16:17 | 1 | | DB-624 0.18(mm) |
| ZZZZZ | | 04/30/2012 16:40 | 1 | | DB-624 0.18(mm) |
| ZZZZZ | | 04/30/2012 17:03 | 1 | | DB-624 0.18(mm) |
| 240-10350-A-5 MS | | 04/30/2012 17:25 | 1 | UXM5284.D | DB-624 0.18(mm) |
| 240-10350-C-5 MSD | | 04/30/2012 17:48 | 1 | UXM5285.D | DB-624 0.18(mm) |
| ZZZZZ | | 04/30/2012 18:11 | 1 | | DB-624 0.18(mm) |

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Lab File ID: BFB2916.D BFB Injection Date: 04/30/2012

Instrument ID: A3UX16 BFB Injection Time: 11:22

Analysis Batch No.: 42171

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 50 | 15.0 - 40.0 % of mass 95 | 21.2 | |
| 75 | 30.0 - 60.0 % of mass 95 | 53.9 | |
| 95 | Base Peak, 100% relative abundance | 100.0 | |
| 96 | 5.0 - 9.0 % of mass 95 | 7.1 | |
| 173 | Less than 2.0 % of mass 174 | 0.1 | (0.2)1 |
| 174 | 50.0 - 120.00 % of mass 95 | 66.2 | |
| 175 | 5.0 - 9.0 % of mass 174 | 4.8 | (7.3)1 |
| 176 | 95.0 - 101.0 % of mass 174 | 63.9 | (96.5)1 |
| 177 | 5.0 - 9.0 % of mass 176 | 4.2 | (6.6)2 |

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | CCVIS 240-42171/2 | UXM5270.D | 04/30/2012 | 11:50 |
| | CCV 240-42171/3 | UXM5271.D | 04/30/2012 | 12:13 |
| | LCS 240-42171/4 | UXM5272.D | 04/30/2012 | 12:36 |
| | MB 240-42171/5 | UXM5273.D | 04/30/2012 | 12:59 |
| TB-042412 | 240-10598-1 | UXM5277.D | 04/30/2012 | 14:46 |
| MT-MW04S | 240-10598-2 | UXM5278.D | 04/30/2012 | 15:09 |
| MT-MW06S | 240-10598-3 | UXM5279.D | 04/30/2012 | 15:31 |
| | 240-10350-A-5 MS | UXM5284.D | 04/30/2012 | 17:25 |
| | 240-10350-C-5 MSD | UXM5285.D | 04/30/2012 | 17:48 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-10598-1

SDG No.:

Lab Sample ID: CCVIS 240-42171/2  Calibration Date: 04/30/2012 11:50

Instrument ID: A3UX16  Calib Start Date: 04/29/2012 15:41

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 04/29/2012 17:34

Lab File ID: UXM5270.D  Conc. Units: ug/L  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | Ave | 0.2829 | 0.2885 | 0.1000 | 10.2 | 10.0 | 2.0 | 20.0 |
| Chloromethane | Ave | 0.4613 | 0.4195 | 0.1000 | 9.10 | 10.0 | -9.0 | 20.0 |
| Vinyl chloride | Ave | 0.4246 | 0.4029 | 0.1000 | 9.49 | 10.0 | -5.1 | 20.0 |
| Bromomethane | Ave | 0.1684 | 0.1518 | 0.0500 | 9.02 | 10.0 | -9.8 | 20.0 |
| Chloroethane | Ave | 0.2371 | 0.2197 | 0.0500 | 9.27 | 10.0 | -7.3 | 20.0 |
| Trichlorofluoromethane | Ave | 0.3035 | 0.3119 | 0.1000 | 10.3 | 10.0 | 2.8 | 20.0 |
| Acrolein | Ave | 0.0489 | 0.0440 | | 89.9 | 100 | -10.1 | 20.0 |
| 1,1-Dichloroethene | Ave | 0.2446 | 0.2428 | 0.1000 | 9.93 | 10.0 | -0.7 | 20.0 |
| 1,1,2-Trichloro-1,2,2-trichf luoroethane | Ave | 0.1546 | 0.1669 | 0.0500 | 10.8 | 10.0 | 8.0 | 20.0 |
| Acetone | Lin1 | | 0.0864 | 0.0500 | 16.6 | 20.0 | -17.0 | 20.0 |
| Iodomethane | Ave | 0.3433 | 0.3500 | | 10.2 | 10.0 | 1.9 | 20.0 |
| Carbon disulfide | Ave | 0.7261 | 0.7265 | 0.1000 | 10.0 | 10.0 | 0.0 | 20.0 |
| Acetonitrile | Ave | 0.0346 | 0.0292 | | 84.2 | 100 | -15.8 | 20.0 |
| Methyl acetate | Ave | 0.2327 | 0.1967 | 0.1000 | 16.9 | 20.0 | -15.5 | 20.0 |
| Methylene Chloride | Lin1 | | 0.3004 | 0.1000 | 9.58 | 10.0 | -4.2 | 20.0 |
| tert-Butyl alcohol | Ave | 0.0189 | 0.0158 | | 167 | 200 | -16.6 | 20.0 |
| Acrylonitrile | Ave | 0.1114 | 0.0998 | | 17.9 | 20.0 | -10.5 | 20.0 |
| Methyl tert-butyl ether | Ave | 0.8402 | 0.7869 | 0.1000 | 9.36 | 10.0 | -6.4 | 20.0 |
| trans-1,2-Dichloroethene | Ave | 0.2873 | 0.2775 | 0.1000 | 9.66 | 10.0 | -3.4 | 20.0 |
| Hexane | Ave | 0.0529 | 0.0551 | | 10.4 | 10.0 | 4.1 | 20.0 |
| 1,1-Dichloroethane | Ave | 0.5691 | 0.5381 | 0.1000 | 9.45 | 10.0 | -5.5 | 20.0 |
| Vinyl acetate | Ave | 0.0505 | 0.0473 | | 9.37 | 10.0 | -6.3 | 20.0 |
| 2-Butanone | Ave | 0.1356 | 0.1228 | 0.0500 | 18.1 | 20.0 | -9.5 | 20.0 |
| cis-1,2-Dichloroethene | Ave | 0.3087 | 0.2944 | 0.1000 | 9.54 | 10.0 | -4.6 | 20.0 |
| 2,2-Dichloropropane | Ave | 0.2932 | 0.3012 | | 10.3 | 10.0 | 2.7 | 20.0 |
| Bromochloromethane | Ave | 0.1283 | 0.1246 | | 9.71 | 10.0 | -2.9 | 20.0 |
| Tetrahydrofuran | Ave | 0.0828 | 0.0713 | | 8.61 | 10.0 | -13.9 | 20.0 |
| Chloroform | Ave | 0.5296 | 0.5127 | 0.2000 | 9.68 | 10.0 | -3.2 | 20.0 |
| 1,1,1-Trichloroethane | Ave | 0.3678 | 0.3764 | 0.1000 | 10.2 | 10.0 | 2.3 | 20.0 |
| Cyclohexane | Ave | 0.4605 | 0.4777 | 0.1000 | 10.4 | 10.0 | 3.7 | 20.0 |
| 1,1-Dichloropropene | Ave | 0.4264 | 0.4061 | | 9.53 | 10.0 | -4.7 | 20.0 |
| Carbon tetrachloride | Ave | 0.2770 | 0.2871 | 0.1000 | 10.4 | 10.0 | 3.7 | 20.0 |
| 1,2-Dichloroethane | Ave | 0.4694 | 0.4390 | 0.1000 | 9.35 | 10.0 | -6.5 | 20.0 |
| Benzene | Ave | 1.251 | 1.173 | 0.5000 | 9.38 | 10.0 | -6.2 | 20.0 |
| Trichloroethene | Ave | 0.2698 | 0.2578 | 0.2000 | 9.56 | 10.0 | -4.4 | 20.0 |
| 1,2-Dichloropropane | Ave | 0.3083 | 0.2961 | 0.1000 | 9.61 | 10.0 | -3.9 | 20.0 |
| Methylcyclohexane | Ave | 0.3477 | 0.3809 | 0.1000 | 11.0 | 10.0 | 9.5 | 20.0 |
| Dibromomethane | Ave | 0.1606 | 0.1478 | | 9.20 | 10.0 | -8.0 | 20.0 |
| 1,4-Dioxane | Ave | 0.0024 | 0.0019 | | 403 | 500 | -19.5 | 20.0 |
| Bromodichloromethane | Ave | 0.3092 | 0.3153 | 0.1000 | 10.2 | 10.0 | 2.0 | 20.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Lab Sample ID: CCVIS 240-42171/2 Calibration Date: 04/30/2012 11:50

Instrument ID: A3UX16 Calib Start Date: 04/29/2012 15:41

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/29/2012 17:34

Lab File ID: UXM5270.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 2-Chloroethyl vinyl ether | Ave | 0.1599 | 0.1432 | | 17.9 | 20.0 | -10.4 | 20.0 |
| cis-1,3-Dichloropropene | Lin1 | | 0.3918 | 0.1500 | 9.04 | 10.0 | -9.6 | 20.0 |
| 4-Methyl-2-pentanone | Ave | 0.2643 | 0.2348 | 0.0500 | 17.8 | 20.0 | -11.1 | 20.0 |
| Toluene | Ave | 1.877 | 1.787 | 0.4000 | 9.52 | 10.0 | -4.8 | 20.0 |
| trans-1,3-Dichloropropene | Lin1 | | 0.5043 | 0.1000 | 8.87 | 10.0 | -11.3 | 20.0 |
| Ethyl methacrylate | Ave | 0.5543 | 0.5335 | | 9.62 | 10.0 | -3.8 | 20.0 |
| 1,1,2-Trichloroethane | Ave | 0.3307 | 0.3148 | 0.1000 | 9.52 | 10.0 | -4.8 | 20.0 |
| 1,3-Dichloropropane | Ave | 0.6962 | 0.6368 | | 9.15 | 10.0 | -8.5 | 20.0 |
| Tetrachloroethene | Ave | 0.2617 | 0.2605 | 0.2000 | 9.95 | 10.0 | -0.5 | 20.0 |
| 2-Hexanone | Ave | 0.2698 | 0.2379 | 0.0500 | 17.6 | 20.0 | -11.8 | 20.0 |
| Dibromochloromethane | Lin1 | | 0.2633 | | 9.05 | 10.0 | -9.5 | 20.0 |
| 1,2-Dibromoethane | Ave | 0.3223 | 0.3055 | | 9.48 | 10.0 | -5.2 | 20.0 |
| Chlorobenzene | Ave | 1.104 | 1.033 | 0.3000 | 9.36 | 10.0 | -6.4 | 20.0 |
| 1,1,1,2-Tetrachloroethane | Ave | 0.3116 | 0.3137 | | 10.1 | 10.0 | 0.7 | 20.0 |
| Ethylbenzene | Ave | 0.5828 | 0.5604 | | 9.61 | 10.0 | -3.9 | 20.0 |
| m-Xylene & p-Xylene | Ave | 0.7256 | 0.7011 | | 19.3 | 20.0 | -3.4 | 20.0 |
| o-Xylene | Ave | 0.7207 | 0.6828 | | 9.47 | 10.0 | -5.3 | 20.0 |
| Styrene | Ave | 1.192 | 1.161 | 0.3000 | 9.74 | 10.0 | -2.6 | 20.0 |
| Bromoform | Lin1 | | 0.1180 | 0.1000 | 8.76 | 10.0 | -12.4 | 20.0 |
| Isopropylbenzene | Ave | 1.713 | 1.674 | 0.1000 | 9.78 | 10.0 | -2.2 | 20.0 |
| 1,1,2,2-Tetrachloroethane | Ave | 0.9025 | 0.8145 | 0.3000 | 9.03 | 10.0 | -9.7 | 20.0 |
| Bromobenzene | Ave | 0.8159 | 0.7672 | | 9.40 | 10.0 | -6.0 | 20.0 |
| 1,2,3-Trichloropropane | Ave | 0.2837 | 0.2411 | | 8.50 | 10.0 | -15.0 | 20.0 |
| trans-1,4-Dichloro-2-butene | Ave | 0.2511 | 0.2253 | | 8.97 | 10.0 | -10.3 | 20.0 |
| n-Propylbenzene | Ave | 0.8598 | 0.8408 | | 9.78 | 10.0 | -2.2 | 20.0 |
| 2-Chlorotoluene | Ave | 0.8362 | 0.7704 | | 9.21 | 10.0 | -7.9 | 20.0 |
| 1,3,5-Trimethylbenzene | Ave | 2.791 | 2.685 | | 9.62 | 10.0 | -3.8 | 20.0 |
| 4-Chlorotoluene | Ave | 0.8762 | 0.8030 | | 9.16 | 10.0 | -8.4 | 20.0 |
| tert-Butylbenzene | Ave | 2.471 | 2.377 | | 9.62 | 10.0 | -3.8 | 20.0 |
| 1,2,4-Trimethylbenzene | Ave | 2.906 | 2.768 | | 9.52 | 10.0 | -4.8 | 20.0 |
| sec-Butylbenzene | Ave | 3.036 | 2.929 | | 9.65 | 10.0 | -3.5 | 20.0 |
| 1,3-Dichlorobenzene | Ave | 1.506 | 1.415 | 0.6000 | 9.40 | 10.0 | -6.0 | 20.0 |
| p-Isopropyltoluene | Ave | 2.486 | 2.404 | | 9.67 | 10.0 | -3.3 | 20.0 |
| 1,4-Dichlorobenzene | Ave | 1.587 | 1.474 | 0.5000 | 9.29 | 10.0 | -7.1 | 20.0 |
| n-Butylbenzene | Ave | 2.286 | 2.220 | | 9.71 | 10.0 | -2.9 | 20.0 |
| 1,2-Dichlorobenzene | Ave | 1.485 | 1.388 | 0.4000 | 9.35 | 10.0 | -6.5 | 20.0 |
| 1,2-Dibromo-3-Chloropropane | Ave | 0.0952 | 0.0894 | 0.0500 | 9.39 | 10.0 | -6.1 | 20.0 |
| 1,3,5-Trichlorobenzene | Ave | 0.7690 | 0.7641 | | 9.94 | 10.0 | -0.6 | 20.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.6818 | 0.6748 | 0.2000 | 9.90 | 10.0 | -1.0 | 20.0 |
| Hexachlorobutadiene | Ave | 0.2577 | 0.2544 | | 9.87 | 10.0 | -1.3 | 20.0 |
| Naphthalene | Ave | 2.063 | 1.886 | | 9.14 | 10.0 | -8.6 | 20.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Lab Sample ID: CCVIS 240-42171/2 Calibration Date: 04/30/2012 11:50

Instrument ID: A3UX16 Calib Start Date: 04/29/2012 15:41

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/29/2012 17:34

Lab File ID: UXM5270.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 1,2,3-Trichlorobenzene | Ave | 0.5920 | 0.5682 | | 9.60 | 10.0 | -4.0 | 20.0 |
| Dibromofluoromethane (Surr) | Ave | 0.2389 | 0.2170 | | 9.27 | 10.2 | -9.2 | 20.0 |
| 1,2-Dichloroethane-d4 (Surr) | Ave | 0.3867 | 0.3153 | | 8.32 | 10.2 | -18.5 | 20.0 |
| Toluene-d8 (Surr) | Ave | 1.552 | 1.338 | | 8.81 | 10.2 | -13.7 | 20.0 |
| 4-Bromofluorobenzene (Surr) | Ave | 0.5538 | 0.5067 | | 9.34 | 10.2 | -8.5 | 20.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Lab Sample ID: CCV 240-42171/3 Calibration Date: 04/30/2012 12:13

Instrument ID: A3UX16 Calib Start Date: 04/29/2012 15:41

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/29/2012 17:34

Lab File ID: UXM5271.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dibromofluoromethane (Surr) | Ave | 0.2389 | 0.2197 | | 9.39 | 10.2 | -8.1 | 20.0 |
| 1,2-Dichloroethane-d4 (Surr) | Ave | 0.3867 | 0.3395 | | 8.96 | 10.2 | -12.2 | 20.0 |
| Toluene-d8 (Surr) | Ave | 1.552 | 1.410 | | 9.28 | 10.2 | -9.1 | 20.0 |
| 4-Bromofluorobenzene (Surr) | Ave | 0.5538 | 0.5352 | | 9.87 | 10.2 | -3.4 | 20.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Lab Sample ID: CCV 240-42171/3 Calibration Date: 04/30/2012 12:13

Instrument ID: A3UX16 Calib Start Date: 04/29/2012 17:57

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/29/2012 19:50

Lab File ID: UXM5271.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorofluoromethane | Ave | 0.5291 | 0.4967 | | 9.39 | 10.0 | -6.1 | 20.0 |
| Ethyl ether | Ave | 0.3182 | 0.2722 | | 8.56 | 10.0 | -14.4 | 20.0 |
| 3-Chloro-1-propene | Ave | 0.1408 | 0.1458 | | 10.4 | 10.0 | 3.5 | 20.0 |
| Diisopropyl ether | Ave | 0.2775 | 0.2702 | | 48.7 | 50.0 | -2.6 | 20.0 |
| 2-Chloro-1,3-butadiene | Ave | 0.5156 | 0.4999 | | 9.70 | 10.0 | -3.0 | 20.0 |
| Ethyl-t-butyl ether (ETBE) | Ave | 0.8899 | 0.8664 | | 9.74 | 10.0 | -2.6 | 20.0 |
| Propionitrile | Ave | 0.0386 | 0.0384 | | 19.9 | 20.0 | -0.6 | 20.0 |
| Ethyl acetate | Ave | 0.2719 | 0.2478 | | 18.2 | 20.0 | -8.9 | 20.0 |
| Methacrylonitrile | Ave | 0.1921 | 0.1753 | | 9.13 | 10.0 | -8.7 | 20.0 |
| Isobutyl alcohol | Ave | 0.0086 | 0.0076 | | 176 | 200 | -12.2 | 20.0 |
| Tert-amyl-methyl ether (TAME) | Ave | 0.7157 | 0.6972 | | 9.74 | 10.0 | -2.6 | 20.0 |
| n-Heptane | Ave | 0.0406 | 0.0438 | | 10.8 | 10.0 | 7.7 | 20.0 |
| n-Butanol | Lin1 | | 0.0054 | | 165 | 200 | -17.6 | 20.0 |
| 2-Nitropropane | Qua | | 0.0379 | | 18.5 | 20.0 | -7.5 | 20.0 |
| Cyclohexanone | Lin1 | | 0.0798 | | 79.4 | 100 | -20.6* | 20.0 |
| 1,2,3-Trimethylbenzene | Ave | 2.982 | 2.888 | | 9.68 | 10.0 | -3.2 | 20.0 |
| 2-Methylnaphthalene | Qua | | 0.8088 | | 16.2 | 20.0 | -19.0 | 20.0 |

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Lab File ID: UXM5273.D Lab Sample ID: MB 240-42171/5

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX16 Date Analyzed: 04/30/2012 12:59

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| | LCS 240-42171/4 | UXM5272.D | 04/30/2012 12:36 |
| TB-042412 | 240-10598-1 | UXM5277.D | 04/30/2012 14:46 |
| MT-MW04S | 240-10598-2 | UXM5278.D | 04/30/2012 15:09 |
| MT-MW06S | 240-10598-3 | UXM5279.D | 04/30/2012 15:31 |
| | 240-10350-A-5 MS | UXM5284.D | 04/30/2012 17:25 |
| | 240-10350-C-5 MSD | UXM5285.D | 04/30/2012 17:48 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-10598-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-42171/5

Matrix: Water | Lab File ID: UXM5273.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/30/2012 12:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 42171 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.23 |
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 1.0 | 0.22 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.18 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trichfluoroeth ane | 1.0 | U | 1.0 | 0.28 |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.15 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.19 |
| 563-58-6 | 1,1-Dichloropropene | 1.0 | U | 1.0 | 0.13 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.288 | J | 1.0 | 0.17 |
| 96-18-4 | 1,2,3-Trichloropropane | 1.0 | U | 1.0 | 0.43 |
| 526-73-8 | 1,2,3-Trimethylbenzene | 5.0 | U | 5.0 | 0.0059 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.15 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.12 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 2.0 | U | 2.0 | 0.67 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.13 |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.22 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.18 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.14 |
| 142-28-9 | 1,3-Dichloropropane | 1.0 | U | 1.0 | 0.16 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.13 |
| 594-20-7 | 2,2-Dichloropropane | 1.0 | U | 1.0 | 0.13 |
| 110-75-8 | 2-Chloroethyl vinyl ether | 10 | U | 10 | 0.99 |
| 95-49-8 | 2-Chlorotoluene | 1.0 | U | 1.0 | 0.11 |
| 591-78-6 | 2-Hexanone | 10 | U | 10 | 0.41 |
| 108-86-1 | Bromobenzene | 1.0 | U | 1.0 | 0.13 |
| 74-97-5 | Bromochloromethane | 1.0 | U | 1.0 | 0.29 |
| 106-43-4 | 4-Chlorotoluene | 1.0 | U | 1.0 | 0.18 |
| 99-87-6 | p-Isopropyltoluene | 1.0 | U | 1.0 | 0.12 |
| 67-64-1 | Acetone | 10 | U | 10 | 1.1 |
| 71-43-2 | Benzene | 1.0 | U | 1.0 | 0.13 |
| 75-25-2 | Bromoform | 1.0 | U | 1.0 | 0.64 |
| 74-83-9 | Bromomethane | 1.0 | U | 1.0 | 0.41 |
| 75-15-0 | Carbon disulfide | 1.0 | U | 1.0 | 0.13 |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 1.0 | 0.13 |
| 108-90-7 | Chlorobenzene | 1.0 | U | 1.0 | 0.15 |
| 75-00-3 | Chloroethane | 1.0 | U | 1.0 | 0.29 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-42171/5

Matrix: Water Lab File ID: UXM5273.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 04/30/2012 12:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 42171 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 67-66-3 | Chloroform | 1.0 | U | 1.0 | 0.16 |
| 74-87-3 | Chloromethane | 1.0 | U | 1.0 | 0.30 |
| 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.17 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.14 |
| 87-68-3 | Hexachlorobutadiene | 1.0 | U | 1.0 | 0.30 |
| 74-95-3 | Dibromomethane | 1.0 | U | 1.0 | 0.28 |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 1.0 | 0.15 |
| 75-71-8 | Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.31 |
| 100-41-4 | Ethylbenzene | 1.0 | U | 1.0 | 0.17 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.24 |
| 108-20-3 | Diisopropyl ether | 10 | U | 10 | 1.5 |
| 91-20-3 | Naphthalene | 1.0 | U | 1.0 | 0.24 |
| 179601-23-1 | m-Xylene & p-Xylene | 2.0 | U | 2.0 | 0.24 |
| 104-51-8 | n-Butylbenzene | 1.0 | U | 1.0 | 0.12 |
| 98-82-8 | Isopropylbenzene | 1.0 | U | 1.0 | 0.13 |
| 103-65-1 | n-Propylbenzene | 1.0 | U | 1.0 | 0.14 |
| 78-93-3 | 2-Butanone | 10 | U | 10 | 0.57 |
| 108-10-1 | 4-Methyl-2-pentanone | 10 | U | 10 | 0.32 |
| 135-98-8 | sec-Butylbenzene | 1.0 | U | 1.0 | 0.13 |
| 1634-04-4 | Methyl tert-butyl ether | 5.0 | U | 5.0 | 0.17 |
| 994-05-8 | Tert-amyl-methyl ether (TAME) | 5.0 | U | 5.0 | 0.067 |
| 75-09-2 | Methylene Chloride | 1.0 | U | 1.0 | 0.33 |
| 95-47-6 | o-Xylene | 1.0 | U | 1.0 | 0.14 |
| 100-42-5 | Styrene | 1.0 | U | 1.0 | 0.11 |
| 637-92-3 | Ethyl-t-butyl ether (ETBE) | 5.0 | U | 5.0 | 0.11 |
| 98-06-6 | tert-Butylbenzene | 1.0 | U | 1.0 | 0.13 |
| 127-18-4 | Tetrachloroethene | 1.0 | U | 1.0 | 0.29 |
| 108-88-3 | Toluene | 1.0 | U | 1.0 | 0.13 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.19 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.19 |
| 79-01-6 | Trichloroethene | 1.0 | U | 1.0 | 0.17 |
| 75-69-4 | Trichlorofluoromethane | 1.0 | U | 1.0 | 0.21 |
| 108-05-4 | Vinyl acetate | 2.0 | U | 2.0 | 0.19 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 1.0 | 0.22 |
| 75-65-0 | tert-Butyl alcohol | 50 | U | 50 | 3.9 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-10598-1

SDG No.:

Client Sample ID:  Lab Sample ID: MB 240-42171/5

Matrix: Water  Lab File ID: UXM5273.D

Analysis Method: 8260C  Date Collected:

Sample wt/vol: 5(mL)  Date Analyzed: 04/30/2012 12:59

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 42171  Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 1330-20-7 | Xylenes, Total | 2.0 | U | 2.0 | 0.28 |
| 124-48-1 | Dibromochloromethane | 1.0 | U | 1.0 | 0.18 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 87 | | 63-129 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 96 | | 66-117 |
| 2037-26-5 | Toluene-d8 (Surr) | 92 | | 74-115 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 86 | | 75-121 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton  Job No.: 240-10598-1

SDG No.:

Client Sample ID:  Lab Sample ID: MB 240-42171/5

Matrix: Water  Lab File ID: UXM5273.D

Analysis Method: 8260C  Date Collected:

Sample wt/vol: 5(mL)  Date Analyzed: 04/30/2012 12:59

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 42171  Units: ug/L

Number TICs Found: 1  TIC Result Total: 0.197

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| | Tentatively Identified Compound | | None | |
| 108-87-2 | Methylcyclohexane | 6.21 | 0.197 | J |

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXM5272.D

Lab ID: LCS 240-42171/4 Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 10.0 | 9.29 | 93 | 72-116 | |
| 1,1,1-Trichloroethane | 10.0 | 9.17 | 92 | 74-118 | |
| 1,1,2,2-Tetrachloroethane | 10.0 | 8.61 | 86 | 68-118 | |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 10.0 | 9.47 | 95 | 74-151 | |
| 1,1-Dichloroethane | 10.0 | 9.12 | 91 | 82-115 | |
| 1,1-Dichloroethene | 10.0 | 9.37 | 94 | 78-131 | |
| 1,1-Dichloropropene | 10.0 | 8.82 | 88 | 83-114 | |
| 1,2,3-Trichlorobenzene | 10.0 | 9.27 | 93 | 54-126 | |
| 1,2,3-Trichloropropane | 10.0 | 8.58 | 86 | 73-129 | |
| 1,2,3-Trimethylbenzene | 10.0 | 9.34 | 93 | 70-130 | |
| 1,2,4-Trichlorobenzene | 10.0 | 9.24 | 92 | 48-135 | |
| 1,2,4-Trimethylbenzene | 10.0 | 9.09 | 91 | 76-120 | |
| 1,2-Dibromo-3-Chloropropane | 10.0 | 8.48 | 85 | 42-136 | |
| 1,2-Dichlorobenzene | 10.0 | 8.87 | 89 | 81-110 | |
| 1,2-Dichloroethane | 10.0 | 9.10 | 91 | 71-127 | |
| 1,2-Dichloropropane | 10.0 | 9.15 | 92 | 81-115 | |
| 1,3-Dichlorobenzene | 10.0 | 9.09 | 91 | 80-110 | |
| 1,3-Dichloropropane | 10.0 | 8.52 | 85 | 79-116 | |
| 1,4-Dichlorobenzene | 10.0 | 8.91 | 89 | 82-110 | |
| 2,2-Dichloropropane | 10.0 | 9.51 | 95 | 50-129 | |
| 2-Chloroethyl vinyl ether | 10.0 | 8.76 J | 88 | 52-131 | |
| 2-Chlorotoluene | 10.0 | 8.59 | 86 | 76-116 | |
| 2-Hexanone | 20.0 | 17.5 | 88 | 55-133 | |
| Bromobenzene | 10.0 | 9.12 | 91 | 76-115 | |
| Bromochloromethane | 10.0 | 9.21 | 92 | 77-120 | |
| 4-Chlorotoluene | 10.0 | 8.82 | 88 | 77-115 | |
| p-Isopropyltoluene | 10.0 | 9.20 | 92 | 74-120 | |
| Acetone | 20.0 | 16.4 | 82 | 43-136 | |
| Benzene | 10.0 | 9.16 | 92 | 83-112 | |
| Bromoform | 10.0 | 8.16 | 82 | 40-131 | |
| Bromomethane | 10.0 | 7.64 | 76 | 11-185 | |
| Carbon disulfide | 10.0 | 8.61 | 86 | 62-142 | |
| Carbon tetrachloride | 10.0 | 9.19 | 92 | 66-128 | |
| Chlorobenzene | 10.0 | 8.95 | 90 | 85-110 | |
| Chloroethane | 10.0 | 8.17 | 82 | 25-153 | |
| Chloroform | 10.0 | 8.84 | 88 | 79-117 | |
| Chloromethane | 10.0 | 7.91 | 79 | 44-126 | |
| cis-1,2-Dichloroethene | 10.0 | 9.23 | 92 | 80-113 | |
| cis-1,3-Dichloropropene | 10.0 | 8.36 | 84 | 61-115 | |
| Hexachlorobutadiene | 10.0 | 8.77 | 88 | 36-134 | |
| Dibromomethane | 10.0 | 9.18 | 92 | 81-120 | |

# Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXM5272.D

Lab ID: LCS 240-42171/4 Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| Bromodichloromethane | 10.0 | 9.60 | 96 | 72-121 | |
| Dichlorodifluoromethane | 10.0 | 5.86 | 59 | 19-129 | |
| Ethylbenzene | 10.0 | 9.06 | 91 | 83-112 | |
| 1,2-Dibromoethane | 10.0 | 8.75 | 88 | 79-113 | |
| Diisopropyl ether | 10.0 | 8.74 J | 87 | 77-118 | |
| Naphthalene | 10.0 | 8.79 | 88 | 32-141 | |
| m-Xylene & p-Xylene | 20.0 | 18.0 | 90 | 83-113 | |
| n-Butylbenzene | 10.0 | 8.83 | 88 | 66-125 | |
| Isopropylbenzene | 10.0 | 9.08 | 91 | 75-114 | |
| n-Propylbenzene | 10.0 | 9.50 | 95 | 74-121 | |
| 2-Butanone | 20.0 | 16.7 | 84 | 60-126 | |
| 4-Methyl-2-pentanone | 20.0 | 17.3 | 87 | 63-128 | |
| sec-Butylbenzene | 10.0 | 8.78 | 88 | 70-117 | |
| Methyl tert-butyl ether | 10.0 | 8.66 | 87 | 52-144 | |
| Methylene Chloride | 10.0 | 8.84 | 88 | 66-131 | |
| o-Xylene | 10.0 | 9.15 | 92 | 83-113 | |
| Styrene | 10.0 | 9.27 | 93 | 79-114 | |
| tert-Butylbenzene | 10.0 | 8.95 | 90 | 71-115 | |
| Tetrachloroethene | 10.0 | 9.17 | 92 | 79-114 | |
| Toluene | 10.0 | 8.87 | 89 | 84-111 | |
| trans-1,2-Dichloroethene | 10.0 | 9.08 | 91 | 83-117 | |
| trans-1,3-Dichloropropene | 10.0 | 8.11 | 81 | 58-117 | |
| Trichloroethene | 10.0 | 9.17 | 92 | 76-117 | |
| Trichlorofluoromethane | 10.0 | 9.25 | 93 | 49-157 | |
| Vinyl acetate | 10.0 | 8.12 | 81 | 46-161 | |
| Vinyl chloride | 10.0 | 8.25 | 83 | 53-127 | |
| tert-Butyl alcohol | 200 | 167 | 84 | 70-130 | |
| Xylenes, Total | 30.0 | 27.2 | 91 | 83-112 | |
| Dibromochloromethane | 10.0 | 8.13 | 81 | 64-119 | |

# Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXM5284.D

Lab ID: 240-10350-A-5 MS Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 10.0 | 1.0 U | 9.57 | 96 | 64-118 | |
| 1,1,1-Trichloroethane | 10.0 | 1.0 U | 9.42 | 94 | 68-121 | |
| 1,1,2,2-Tetrachloroethane | 10.0 | 1.0 U | 9.56 | 96 | 63-122 | |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 10.0 | 1.0 U | 11.6 | 116 | 70-152 | |
| 1,1-Dichloroethane | 10.0 | 1.0 U | 9.26 | 93 | 79-116 | |
| 1,1-Dichloroethene | 10.0 | 1.0 U | 10.0 | 100 | 74-135 | |
| 1,1-Dichloropropene | 10.0 | 1.0 U | 9.55 | 96 | 80-114 | |
| 1,2,3-Trichlorobenzene | 10.0 | 1.0 U | 9.86 | 99 | 45-129 | |
| 1,2,3-Trichloropropane | 10.0 | 1.0 U | 9.72 | 97 | 67-132 | |
| 1,2,3-Trimethylbenzene | 10.0 | 5.0 U | 9.43 | 94 | 70-130 | |
| 1,2,4-Trichlorobenzene | 10.0 | 1.0 U | 9.37 | 94 | 38-138 | |
| 1,2,4-Trimethylbenzene | 10.0 | 1.0 U | 9.37 | 94 | 67-124 | |
| 1,2-Dibromo-3-Chloropropane | 10.0 | 2.0 U | 9.54 | 95 | 32-139 | |
| 1,2-Dichlorobenzene | 10.0 | 1.0 U | 9.15 | 92 | 75-111 | |
| 1,2-Dichloroethane | 10.0 | 1.0 U | 9.37 | 94 | 68-129 | |
| 1,2-Dichloropropane | 10.0 | 1.0 U | 9.68 | 97 | 78-115 | |
| 1,3-Dichlorobenzene | 10.0 | 1.0 U | 9.16 | 92 | 73-110 | |
| 1,3-Dichloropropane | 10.0 | 1.0 U | 9.44 | 94 | 74-118 | |
| 1,4-Dichlorobenzene | 10.0 | 1.0 U | 9.01 | 90 | 75-110 | |
| 2,2-Dichloropropane | 10.0 | 1.0 U | 9.23 | 92 | 38-127 | |
| 2-Chloroethyl vinyl ether | 10.0 | 10 U | 10 U | 0 | 10-150 | F |
| 2-Chlorotoluene | 10.0 | 1.0 U | 8.96 | 90 | 69-117 | |
| 2-Hexanone | 20.0 | 10 U | 21.3 | 107 | 47-139 | |
| Bromobenzene | 10.0 | 1.0 U | 9.39 | 94 | 71-116 | |
| Bromochloromethane | 10.0 | 1.0 U | 9.28 | 93 | 73-121 | |
| 4-Chlorotoluene | 10.0 | 1.0 U | 8.98 | 90 | 71-116 | |
| p-Isopropyltoluene | 10.0 | 1.0 U | 9.57 | 96 | 64-122 | |
| Acetone | 20.0 | 10 U | 17.7 | 89 | 33-145 | |
| Benzene | 10.0 | 1.0 U | 9.36 | 94 | 72-121 | |
| Bromoform | 10.0 | 1.0 U | 8.55 | 86 | 32-128 | |
| Bromomethane | 10.0 | 1.0 U | 4.44 | 44 | 10-186 | |
| Carbon disulfide | 10.0 | 1.0 U | 8.83 | 88 | 57-147 | |
| Carbon tetrachloride | 10.0 | 1.0 U | 9.67 | 97 | 59-129 | |
| Chlorobenzene | 10.0 | 1.0 U | 9.37 | 94 | 80-110 | |
| Chloroethane | 10.0 | 1.0 U | 6.84 | 68 | 21-165 | |
| Chloroform | 10.0 | 1.0 U | 9.03 | 90 | 76-118 | |
| Chloromethane | 10.0 | 1.0 U | 7.92 | 79 | 33-132 | |
| cis-1,2-Dichloroethene | 10.0 | 1.0 U | 9.38 | 94 | 70-120 | |
| cis-1,3-Dichloropropene | 10.0 | 1.0 U | 8.26 | 83 | 51-110 | |
| Hexachlorobutadiene | 10.0 | 1.0 U | 8.51 | 85 | 27-132 | |
| Dibromomethane | 10.0 | 1.0 U | 9.68 | 97 | 77-121 | |

# Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXM5284.D

Lab ID: 240-10350-A-5 MS Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|---|
| Bromodichloromethane | 10.0 | 1.0 U | 9.64 | 96 | 67-120 | |
| Dichlorodifluoromethane | 10.0 | 1.0 U | 7.19 | 72 | 17-128 | |
| Ethylbenzene | 10.0 | 1.0 U | 9.51 | 95 | 75-116 | |
| 1,2-Dibromoethane | 10.0 | 1.0 U | 9.96 | 100 | 74-113 | |
| Diisopropyl ether | 10.0 | 10 U | 8.79 J | 88 | 73-118 | |
| Naphthalene | 10.0 | 1.0 U | 9.96 | 100 | 15-158 | |
| m-Xylene & p-Xylene | 20.0 | 2.0 U | 19.0 | 95 | 75-117 | |
| n-Butylbenzene | 10.0 | 1.0 U | 9.11 | 91 | 56-127 | |
| Isopropylbenzene | 10.0 | 1.0 U | 9.45 | 95 | 68-116 | |
| n-Propylbenzene | 10.0 | 1.0 U | 9.58 | 96 | 64-124 | |
| 2-Butanone | 20.0 | 10 U | 19.4 | 97 | 54-129 | |
| 4-Methyl-2-pentanone | 20.0 | 10 U | 20.9 | 105 | 56-131 | |
| sec-Butylbenzene | 10.0 | 1.0 U | 9.33 | 93 | 60-119 | |
| Methyl tert-butyl ether | 10.0 | 5.0 U | 9.03 | 90 | 46-144 | |
| Methylene Chloride | 10.0 | 1.0 U | 8.65 | 87 | 63-128 | |
| o-Xylene | 10.0 | 1.0 U | 9.39 | 94 | 76-116 | |
| Styrene | 10.0 | 1.0 U | 9.60 | 96 | 71-117 | |
| tert-Butylbenzene | 10.0 | 1.0 U | 9.33 | 93 | 61-119 | |
| Tetrachloroethene | 10.0 | 1.0 U | 10.0 | 100 | 70-117 | |
| Toluene | 10.0 | 1.0 U | 9.36 | 94 | 78-114 | |
| trans-1,2-Dichloroethene | 10.0 | 1.0 U | 9.18 | 92 | 80-119 | |
| trans-1,3-Dichloropropene | 10.0 | 1.0 U | 8.16 | 82 | 46-116 | |
| Trichloroethene | 10.0 | 1.0 U | 9.41 | 94 | 66-120 | |
| Trichlorofluoromethane | 10.0 | 1.0 U | 8.71 | 87 | 46-157 | |
| Vinyl acetate | 10.0 | 2.0 U | 8.93 | 89 | 43-157 | |
| Vinyl chloride | 10.0 | 1.0 U | 9.08 | 91 | 49-130 | |
| tert-Butyl alcohol | 200 | 50 U | 217 | 109 | 70-130 | |
| Xylenes, Total | 30.0 | 2.0 U | 28.4 | 95 | 76-116 | |
| Dibromochloromethane | 10.0 | 1.0 U | 8.56 | 86 | 56-118 | |

# Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXM5285.D

Lab ID: 240-10350-C-5 MSD Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD % REC | % RPD | QC LIMITS RPD | QC LIMITS REC | # |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 10.0 | 9.67 | 97 | 1 | 30 | 64-118 | |
| 1,1,1-Trichloroethane | 10.0 | 9.09 | 91 | 4 | 30 | 68-121 | |
| 1,1,2,2-Tetrachloroethane | 10.0 | 10.1 | 101 | 5 | 30 | 63-122 | |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 10.0 | 9.92 | 99 | 16 | 30 | 70-152 | |
| 1,1-Dichloroethane | 10.0 | 9.28 | 93 | 0 | 30 | 79-116 | |
| 1,1-Dichloroethene | 10.0 | 9.69 | 97 | 3 | 30 | 74-135 | |
| 1,1-Dichloropropene | 10.0 | 9.22 | 92 | 4 | 30 | 80-114 | |
| 1,2,3-Trichlorobenzene | 10.0 | 8.21 | 82 | 18 | 30 | 45-129 | |
| 1,2,3-Trichloropropane | 10.0 | 9.80 | 98 | 1 | 30 | 67-132 | |
| 1,2,3-Trimethylbenzene | 10.0 | 9.03 | 90 | 4 | 30 | 70-130 | |
| 1,2,4-Trichlorobenzene | 10.0 | 7.84 | 78 | 18 | 30 | 38-138 | |
| 1,2,4-Trimethylbenzene | 10.0 | 9.00 | 90 | 4 | 30 | 67-124 | |
| 1,2-Dibromo-3-Chloropropane | 10.0 | 9.69 | 97 | 2 | 30 | 32-139 | |
| 1,2-Dichlorobenzene | 10.0 | 8.74 | 87 | 5 | 30 | 75-111 | |
| 1,2-Dichloroethane | 10.0 | 9.04 | 90 | 4 | 30 | 68-129 | |
| 1,2-Dichloropropane | 10.0 | 9.25 | 93 | 5 | 30 | 78-115 | |
| 1,3-Dichlorobenzene | 10.0 | 8.99 | 90 | 2 | 30 | 73-110 | |
| 1,3-Dichloropropane | 10.0 | 9.43 | 94 | 0 | 30 | 74-118 | |
| 1,4-Dichlorobenzene | 10.0 | 8.88 | 89 | 1 | 30 | 75-110 | |
| 2,2-Dichloropropane | 10.0 | 8.87 | 89 | 4 | 30 | 38-127 | |
| 2-Chloroethyl vinyl ether | 10.0 | 10 U | 0 | NC | 30 | 10-150 | F |
| 2-Chlorotoluene | 10.0 | 9.37 | 94 | 4 | 30 | 69-117 | |
| 2-Hexanone | 20.0 | 20.5 | 103 | 4 | 30 | 47-139 | |
| Bromobenzene | 10.0 | 9.57 | 96 | 2 | 30 | 71-116 | |
| Bromochloromethane | 10.0 | 8.92 | 89 | 4 | 30 | 73-121 | |
| 4-Chlorotoluene | 10.0 | 9.06 | 91 | 1 | 30 | 71-116 | |
| p-Isopropyltoluene | 10.0 | 8.93 | 89 | 7 | 30 | 64-122 | |
| Acetone | 20.0 | 13.9 | 70 | 24 | 30 | 33-145 | |
| Benzene | 10.0 | 9.16 | 92 | 2 | 30 | 72-121 | |
| Bromoform | 10.0 | 8.51 | 85 | 0 | 30 | 32-128 | |
| Bromomethane | 10.0 | 5.19 | 52 | 16 | 30 | 10-186 | |
| Carbon disulfide | 10.0 | 8.03 | 80 | 9 | 30 | 57-147 | |
| Carbon tetrachloride | 10.0 | 9.13 | 91 | 6 | 30 | 59-129 | |
| Chlorobenzene | 10.0 | 9.23 | 92 | 2 | 30 | 80-110 | |
| Chloroethane | 10.0 | 6.73 | 67 | 2 | 30 | 21-165 | |
| Chloroform | 10.0 | 8.90 | 89 | 1 | 30 | 76-118 | |
| Chloromethane | 10.0 | 8.81 | 88 | 11 | 30 | 33-132 | |
| cis-1,2-Dichloroethene | 10.0 | 9.27 | 93 | 1 | 30 | 70-120 | |
| cis-1,3-Dichloropropene | 10.0 | 7.99 | 80 | 3 | 30 | 51-110 | |
| Hexachlorobutadiene | 10.0 | 6.53 | 65 | 26 | 30 | 27-132 | |
| Dibromomethane | 10.0 | 9.52 | 95 | 2 | 30 | 77-121 | |

# Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton  Job No.: 240-10598-1

SDG No.:

Matrix: Water  Level: Low  Lab File ID: UXM5285.D

Lab ID: 240-10350-C-5 MSD  Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD % REC | % RPD | QC LIMITS RPD | QC LIMITS REC | # |
|---|---|---|---|---|---|---|---|
| Bromodichloromethane | 10.0 | 9.34 | 93 | 3 | 30 | 67-120 | |
| Dichlorodifluoromethane | 10.0 | 5.82 | 58 | 21 | 30 | 17-128 | |
| Ethylbenzene | 10.0 | 9.29 | 93 | 2 | 30 | 75-116 | |
| 1,2-Dibromoethane | 10.0 | 9.55 | 96 | 4 | 30 | 74-113 | |
| Diisopropyl ether | 10.0 | 8.71 J | 87 | 1 | 30 | 73-118 | |
| Naphthalene | 10.0 | 8.36 | 84 | 17 | 30 | 15-158 | |
| m-Xylene & p-Xylene | 20.0 | 18.3 | 92 | 4 | 30 | 75-117 | |
| n-Butylbenzene | 10.0 | 8.35 | 84 | 9 | 30 | 56-127 | |
| Isopropylbenzene | 10.0 | 9.07 | 91 | 4 | 30 | 68-116 | |
| n-Propylbenzene | 10.0 | 9.61 | 96 | 0 | 30 | 64-124 | |
| 2-Butanone | 20.0 | 17.6 | 88 | 10 | 30 | 54-129 | |
| 4-Methyl-2-pentanone | 20.0 | 20.2 | 101 | 3 | 30 | 56-131 | |
| sec-Butylbenzene | 10.0 | 8.71 | 87 | 7 | 30 | 60-119 | |
| Methyl tert-butyl ether | 10.0 | 8.88 | 89 | 2 | 30 | 46-144 | |
| Methylene Chloride | 10.0 | 8.38 | 84 | 3 | 30 | 63-128 | |
| o-Xylene | 10.0 | 9.08 | 91 | 3 | 30 | 76-116 | |
| Styrene | 10.0 | 9.26 | 93 | 4 | 30 | 71-117 | |
| tert-Butylbenzene | 10.0 | 9.04 | 90 | 3 | 30 | 61-119 | |
| Tetrachloroethene | 10.0 | 9.57 | 96 | 4 | 30 | 70-117 | |
| Toluene | 10.0 | 9.29 | 93 | 1 | 30 | 78-114 | |
| trans-1,2-Dichloroethene | 10.0 | 8.99 | 90 | 2 | 30 | 80-119 | |
| trans-1,3-Dichloropropene | 10.0 | 8.50 | 85 | 4 | 30 | 46-116 | |
| Trichloroethene | 10.0 | 9.19 | 92 | 2 | 30 | 66-120 | |
| Trichlorofluoromethane | 10.0 | 8.33 | 83 | 4 | 30 | 46-157 | |
| Vinyl acetate | 10.0 | 9.09 | 91 | 2 | 30 | 43-157 | |
| Vinyl chloride | 10.0 | 8.71 | 87 | 4 | 30 | 49-130 | |
| tert-Butyl alcohol | 200 | 159 | 79 | 31 | 30 | 70-130 | F |
| Xylenes, Total | 30.0 | 27.4 | 91 | 4 | 30 | 76-116 | |
| Dibromochloromethane | 10.0 | 8.69 | 87 | 2 | 30 | 56-118 | |

# Column to be used to flag recovery and RPD values

FORM III 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Sample No.: STD8260 240-42092/4 Date Analyzed: 04/29/2012 16:26

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXM5241.D Heated Purge: (Y/N) N

Calibration ID: 8426

| | | FB | | CBZ | | DCB | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | | 1530000 | 5.70 | 1036987 | 8.39 | 499405 | 10.64 |
| UPPER LIMIT | | 3060000 | 6.20 | 2073974 | 8.89 | 998810 | 11.14 |
| LOWER LIMIT | | 765000 | 5.20 | 518494 | 7.89 | 249703 | 10.14 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| ICV 240-42092/14 | | 1382789 | 5.70 | 929711 | 8.39 | 462842 | 10.64 |
| CCVIS 240-42171/2 | | 1827438 | 5.70 | 1228317 | 8.39 | 614323 | 10.64 |

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton  Job No.: 240-10598-1

SDG No.:

Sample No.: CCVIS 240-42171/2  Date Analyzed: 04/30/2012 11:50

Instrument ID: A3UX16  GC Column: DB-624  ID: 0.18(mm)

Lab File ID (Standard): UXM5270.D  Heated Purge: (Y/N) N

Calibration ID: 8428

| | | FB | | CBZ | | DCB | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 1827438 | 5.70 | 1228317 | 8.39 | 614323 | 10.64 |
| UPPER LIMIT | | 3654876 | 6.20 | 2456634 | 8.89 | 1228646 | 11.14 |
| LOWER LIMIT | | 913719 | 5.20 | 614159 | 7.89 | 307162 | 10.14 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| CCV 240-42171/3 | | 1675303 | 5.70 | 1143405 | 8.39 | 543922 | 10.64 |
| LCS 240-42171/4 | | 1858112 | 5.70 | 1240826 | 8.39 | 615173 | 10.64 |
| MB 240-42171/5 | | 1636782 | 5.70 | 1107392 | 8.39 | 536650 | 10.64 |
| 240-10598-1 | TB-042412 | 1623556 | 5.70 | 1081632 | 8.39 | 523267 | 10.64 |
| 240-10598-2 | MT-MW04S | 1638447 | 5.70 | 1095228 | 8.39 | 524543 | 10.64 |
| 240-10598-3 | MT-MW06S | 1598458 | 5.70 | 1050881 | 8.39 | 504682 | 10.64 |
| 240-10350-A-5 MS | | 1710874 | 5.70 | 1135916 | 8.39 | 559548 | 10.64 |
| 240-10350-C-5 MSD | | 1786806 | 5.70 | 1151558 | 8.39 | 541302 | 10.64 |

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8260C

SDG 240-10598-1

**SAMPLE ID** MT-MW06S

| SAMPLE CALC IS AREA | DILUTION | COMPOUND OF INTEREST AREA | IS AMOUNT (NG) | Final Extract Volume (UL) | AVE RRF | CONCENTRATION PPB |
|---|---|---|---|---|---|---|
| 1598458 | 1 | 34980 | 10 | 5 | 0.4613 | 0.47 |

| Sample Volume (ML) |
|---|
| 5 |

Chloromethane = 0.47 ug/L

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20120430-9532.b\UXM5279.D
Lims ID: 240-10598-C-3 Client ID: MT-MW06S
Inject. Date: 30-Apr-2012 15:31:30 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 240-0009532-011
Misc. Info.: M20430A,8260LLUX16,,1904
Operator: 1904 Instrument ID: A3UX16
Vol. Injected: 1.0000 ALS Bottle#: 10
Lims Batch ID: 42171 Lims Sample ID: 11
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A3UX16\20120430-9532.b\8260_16.m
Last Update: 01-May-2012 09:03:45 Calib Date: 29-Apr-2012 19:50:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX16\20120429-9509.b\UXM5250.D
Limit Group: MSV 8260DOD ICAL
Integrator: RTE ID Type: Deconvolution ID
Process Host: CORP-CTX-15

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 141 1-Chlorooctane | 1 | | 0.000 | | | | | |
| * 1 Fluorobenzene | 96 | 5.702 | 5.702 | 0.0 | 98 | 1598458 | 10.0 | |
| * 2 Chlorobenzene-d5 | 117 | 8.393 | 8.394 | -0.001 | 90 | 1050881 | 10.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 10.635 | 10.635 | 0.0 | 98 | 504682 | 10.0 | |
| $ 5 Dibromofluoromethane (Surr) | 113 | 5.120 | 5.121 | -0.001 | 63 | 343604 | 9.00 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 5.405 | 5.405 | 0.0 | 0 | 566885 | 9.17 | |
| $ 7 Toluene-d8 (Surr) | 98 | 7.077 | 7.077 | 0.0 | 85 | 1553101 | 9.53 | |
| $ 131 4-Bromofluorobenzene (Surr) | 95 | 9.508 | 9.508 | 0.0 | 82 | 575188 | 9.88 | |
| 134 Chlorodifluoromethane TIC | 1 | | 0.000 | | | | | |
| 12 Dichlorodifluoromethane | 85 | | 1.670 | | | | | |
| 13 Chloromethane | 50 | 1.824 | 1.836 | -0.012 | 99 | 34980 | 0.4744 | |
| 14 Vinyl chloride | 62 | | 1.954 | | | | | |
| 15 Bromomethane | 94 | | 2.298 | | | | | |
| 16 Chloroethane | 64 | | 2.405 | | | | | |
| 18 Trichlorofluoromethane | 101 | | 2.666 | | | | | |
| 21 1,1-Dichloroethene | 96 | | 3.152 | | | | | |
| 23 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | | 3.176 | | | | | |
| 22 Acetone | 43 | | 3.176 | | | | | |
| 26 Carbon disulfide | 76 | | 3.365 | | | | | |
| 30 Methylene Chloride | 84 | | 3.591 | | | | | |
| 31 2-Methyl-2-propanol | 59 | | 3.674 | | | | | |
| 34 Methyl tert-butyl ether | 73 | | 3.840 | | | | | |
| 33 trans-1,2-Dichloroethene | 96 | | 3.840 | | | | | |
| 36 1,1-Dichloroethane | 63 | | 4.207 | | | | | |
| 37 Vinyl acetate | 86 | | 4.243 | | | | | |
| 38 Isopropyl ether | 87 | | 4.279 | | | | | |
| 40 Tert-butyl ethyl ether | 59 | | 4.587 | | | | | |
| 42 cis-1,2-Dichloroethene | 96 | | 4.705 | | | | | |
| 41 2-Butanone (MEK) | 43 | | 4.705 | | | | | |
| 43 2,2-Dichloropropane | 77 | | 4.717 | | | | | |
| 47 Chlorobromomethane | 128 | | 4.919 | | | | | |
| 49 Chloroform | 83 | | 4.978 | | | | | |
| 50 1,1,1-Trichloroethane | 97 | | 5.156 | | | | | |

# Method 8270C

## Semivolatile Organic Compounds (GC/MS) by Method 8270C

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): RXI-5SILMS ID: 0.45 (mm)

| Client Sample ID | Lab Sample ID | 2FP # | PHL # | NBZ # | FBP # | TBP # | TPH # |
|---|---|---|---|---|---|---|---|
| MT-MW04S | 240-10598-2 | 48 | 46 | 49 | 52 | 60 | 69 |
| MT-MW06S | 240-10598-3 | 54 | 49 | 54 | 51 | 58 | 69 |
| | MB 240-41671/21-A | 47 | 46 | 45 | 47 | 45 | 66 |
| | LCS 240-41671/22-A | 70 | 67 | 69 | 68 | 72 | 81 |
| | 240-10552-Q-15-A MS | 61 | 59 | 56 | 61 | 68 | 57 |
| | 240-10552-U-15-A MSD | 58 | 61 | 55 | 62 | 73 | 59 |

| | QC LIMITS |
|---|---|
| 2FP = 2-Fluorophenol (Surr) | 10-110 |
| PHL = Phenol-d5 (Surr) | 10-110 |
| NBZ = Nitrobenzene-d5 (Surr) | 27-111 |
| FBP = 2-Fluorobiphenyl (Surr) | 28-110 |
| TBP = 2,4,6-Tribromophenol (Surr) | 22-120 |
| TPH = Terphenyl-d14 (Surr) | 37-119 |

# Column to be used to flag recovery values

FORM II 8270C

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Instrument ID: A4AG2 Start Date: 04/30/2012 12:57

Analysis Batch Number: 42126 End Date: 04/30/2012 15:37

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| DFTPP 240-42126/1 | | 04/30/2012 12:57 | 1 | 0430001.D | RXI-5SILMS 0.45(mm) |
| STD9 240-42126/2 IC | | 04/30/2012 13:15 | 1 | 0430002.D | RXI-5SILMS 0.45(mm) |
| STD8 240-42126/3 IC | | 04/30/2012 13:33 | 1 | 0430003.D | RXI-5SILMS 0.45(mm) |
| STD7 240-42126/4 IC | | 04/30/2012 13:50 | 1 | 0430004.D | RXI-5SILMS 0.45(mm) |
| STD6 240-42126/5 ICIS | | 04/30/2012 14:08 | 1 | 0430005.D | RXI-5SILMS 0.45(mm) |
| STD5 240-42126/6 IC | | 04/30/2012 14:26 | 1 | 0430006.D | RXI-5SILMS 0.45(mm) |
| STD4 240-42126/7 IC | | 04/30/2012 14:44 | 1 | 0430007.D | RXI-5SILMS 0.45(mm) |
| STD3 240-42126/8 IC | | 04/30/2012 15:02 | 1 | 0430008.D | RXI-5SILMS 0.45(mm) |
| STD2 240-42126/9 IC | | 04/30/2012 15:19 | 1 | 0430009.D | RXI-5SILMS 0.45(mm) |
| STD1 240-42126/10 IC | | 04/30/2012 15:37 | 1 | 0430010.D | RXI-5SILMS 0.45(mm) |

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Lab File ID: 0430001.D DFTPP Injection Date: 04/30/2012

Instrument ID: A4AG2 DFTPP Injection Time: 12:57

Analysis Batch No.: 42126

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 51 | 30.0- 80.0% of mass 198 | 39.9 | |
| 68 | Less than 2.0% of mass 69 | 0.0 | (0.0)1 |
| 69 | Mass 69 relative abundance | 41.8 | |
| 70 | Less than 2.0% of mass 69 | 0.1 | (0.3)1 |
| 127 | 25.0 - 75.0% of mass 198 | 54.1 | |
| 197 | Less than 1.0% of mass 198 | 0.4 | |
| 198 | Base Peak, 100% relative abundance | 100.0 | |
| 199 | 5.0 to 9.0% of mass 198 | 6.8 | |
| 275 | 10.0- 30.0% of mass 198 | 25.2 | |
| 365 | Greater than 0.75% of mass 198 | 3.1 | |
| 441 | Present, but less than mass 443 | 11.7 | |
| 442 | 40.0 - 110.0% of mass 198 | 78.1 | |
| 443 | 15.0 - 24.0% of mass 442 | 15.2 | (19.5)2 |

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | STD9 240-42126/2 | 0430002.D | 04/30/2012 | 13:15 |
| | STD8 240-42126/3 | 0430003.D | 04/30/2012 | 13:33 |
| | STD7 240-42126/4 | 0430004.D | 04/30/2012 | 13:50 |
| | STD6 240-42126/5 | 0430005.D | 04/30/2012 | 14:08 |
| | STD5 240-42126/6 | 0430006.D | 04/30/2012 | 14:26 |
| | STD4 240-42126/7 | 0430007.D | 04/30/2012 | 14:44 |
| | STD3 240-42126/8 | 0430008.D | 04/30/2012 | 15:02 |
| | STD2 240-42126/9 | 0430009.D | 04/30/2012 | 15:19 |
| | STD1 240-42126/10 | 0430010.D | 04/30/2012 | 15:37 |

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-10598-1 Analy Batch No.: 42126

SDG No.:

Instrument ID: A4AG2 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/30/2012 13:15 Calibration End Date: 04/30/2012 15:37 Calibration ID: 8434

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-42126/10 | 0430010.D |
| Level 2 | STD2 240-42126/9 | 0430009.D |
| Level 3 | STD3 240-42126/8 | 0430008.D |
| Level 4 | STD4 240-42126/7 | 0430007.D |
| Level 5 | STD5 240-42126/6 | 0430006.D |
| Level 6 | STD6 240-42126/5 | 0430005.D |
| Level 7 | STD7 240-42126/4 | 0430004.D |
| Level 8 | STD8 240-42126/3 | 0430003.D |
| Level 9 | STD9 240-42126/2 | 0430002.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 1,4-Dioxane | 0.5728 | 0.6355<br>0.5627 | 0.5798<br>0.5463 | 0.6017<br>0.5108 | 0.5466 | Ave | | 0.5695 | | | | 6.7 | | 15.0 | | | |
| N-Nitrosodimethylamine | 0.9615 | 1.0109<br>0.9653 | 1.0216<br>0.9356 | 1.0312<br>0.9342 | 0.9214 | Ave | | 0.9727 | | | | 4.4 | | 15.0 | | | |
| Pyridine | 1.5363 | 1.4068<br>1.5922 | 1.4798<br>1.6124 | 1.5198<br>1.5216 | 1.4854 | Ave | | 1.5193 | | | | 4.3 | | 15.0 | | | |
| Benzaldehyde | 1.5900<br>0.8200 | 1.3435<br>+++++ | 1.3737<br>+++++ | 1.3465<br>+++++ | 1.2256 | Ave | | 1.2832 | | | | 20.0 | * | 15.0 | | | |
| Ethyl methacrylate | 1.1729 | 1.3426<br>1.2068 | 1.3271<br>1.1778 | 1.3285<br>1.0865 | 1.2100 | Ave | | 1.2315 | | | | 7.5 | | 15.0 | | | |
| 3-Chloropropionitrile | 0.7915 | 0.8829<br>0.8090 | 0.8963<br>0.8283 | 0.8661<br>0.7801 | 0.7944 | Ave | | 0.8311 | | | | 5.4 | | 15.0 | | | |
| Malononitrile | 1.6253 | 1.8858<br>1.4486 | 1.9479<br>1.2781 | 1.9508<br>1.1074 | 1.7573 | Qua | 0.0069 | 1.9584 | -0.034 | | | | | | 1.0000 | | 0.9900 |
| Benzoic acid | 0.2189 | +++++<br>0.2575 | +++++<br>0.2753 | 0.1467<br>0.2823 | 0.2527 | Qua | -0.197 | 0.2226 | 0.0013 | | | | | | 0.9970 | | 0.9900 |
| Phenol | 1.9116 | 1.9760<br>1.8999 | 2.0509<br>1.9403 | 2.0005<br>1.8064 | 1.9443 | Ave | | 1.9412 | | | | 3.8 | | 15.0 | | | |
| Aniline | 2.3974 | 2.3054<br>2.4734 | 2.5181<br>2.4654 | 2.5390<br>2.4046 | 2.4402 | Ave | | 2.4430 | | | | 3.0 | | 15.0 | | | |
| Bis(2-chloroethyl)ether | 1.5855 | 1.8212<br>1.5616 | 1.6973<br>1.7905 | 1.7143<br>1.5521 | 1.6590 | Ave | | 1.6727 | | | | 6.1 | | 15.0 | | | |
| 2-Chlorophenol | 1.5738 | 1.5746<br>1.5760 | 1.6506<br>1.6053 | 1.6202<br>1.4704 | 1.5891 | Ave | | 1.5825 | | | | 3.3 | | 15.0 | | | |
| 1,3-Dichlorobenzene | 1.5595 | 1.5935<br>1.5555 | 1.6495<br>1.5861 | 1.6596<br>1.4544 | 1.5619 | Ave | | 1.5775 | | | | 4.0 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-10598-1 Analy Batch No.: 42126

SDG No.:

Instrument ID: A4AG2 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/30/2012 13:15 Calibration End Date: 04/30/2012 15:37 Calibration ID: 8434

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-42126/10 | 0430010.D |
| Level 2 | STD2 240-42126/9 | 0430009.D |
| Level 3 | STD3 240-42126/8 | 0430008.D |
| Level 4 | STD4 240-42126/7 | 0430007.D |
| Level 5 | STD5 240-42126/6 | 0430006.D |
| Level 6 | STD6 240-42126/5 | 0430005.D |
| Level 7 | STD7 240-42126/4 | 0430004.D |
| Level 8 | STD8 240-42126/3 | 0430003.D |
| Level 9 | STD9 240-42126/2 | 0430002.D |

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (NG/UL) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 |
| 1,4-Dioxane | DCB | Ave | 424737 | 34525<br>698155 | 59329<br>1089823 | 96941<br>1392728 | 225836 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| N-Nitrosodimethylamine | DCB | Ave | 712967 | 54920<br>1197641 | 104539<br>1866625 | 166150<br>2547134 | 380658 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Pyridine | DCB | Ave | 1139143 | 76430<br>1975525 | 151423<br>3216851 | 244874<br>4148954 | 613675 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Benzaldehyde | DCB | Ave | 16789<br>608024 | 72994<br>+++++ | 140563<br>+++++ | 216950<br>+++++ | 506348 | 0.100<br>10.0 | 0.500<br>+++++ | 1.00<br>+++++ | 2.00<br>+++++ | 5.00 |
| Ethyl methacrylate | DCB | Ave | 869681 | 72941<br>1497340 | 135794<br>2349655 | 214038<br>2962559 | 499908 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 3-Chloropropionitrile | DCB | Ave | 586866 | 47970<br>1003735 | 91718<br>1652394 | 139548<br>2127126 | 328194 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Malononitrile | DCB | Qua | 1205153 | 102454<br>1797394 | 199325<br>2549764 | 314312<br>3019484 | 725985 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Benzoic acid | NPT | Qua | 1396719 | +++++<br>2715923 | +++++<br>4683771 | 199326<br>6526044 | 895953 | 20.0 | +++++<br>30.0 | +++++<br>40.0 | 4.00<br>50.0 | 10.0 |
| Phenol | DCB | Ave | 1417389 | 107357<br>2357330 | 209868<br>3870975 | 322318<br>4925325 | 803237 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Aniline | DCB | Ave | 1777623 | 125253<br>3068884 | 257675<br>4918602 | 409078<br>6556455 | 1008141 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Bis(2-chloroethyl)ether | DCB | Ave | 1175639 | 98947<br>1937554 | 173675<br>3572007 | 276199<br>4231991 | 685390 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 2-Chlorophenol | DCB | Ave | 1166966 | 85547<br>1955365 | 168901<br>3202550 | 261047<br>4009323 | 656527 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 1,3-Dichlorobenzene | DCB | Ave | 1156335 | 86576<br>1930027 | 168787<br>3164252 | 267392<br>3965541 | 645275 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 1,4-Dichlorobenzene | DCB | Ave | 1183285 | 92421<br>1994148 | 174319<br>3215876 | 273135<br>4044012 | 665983 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Instrument ID: A4AG2 Start Date: 05/01/2012 08:29

Analysis Batch Number: 42274 End Date: 05/01/2012 20:01

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| DFTPP 240-42274/1 | | 05/01/2012 08:29 | 1 | 0501001.D | RXI-5SILMS 0.45(mm) |
| CCV 240-42274/2 CCVIS | | 05/01/2012 08:47 | 1 | 0501002.D | RXI-5SILMS 0.45(mm) |
| ICV 240-42274/3 | | 05/01/2012 09:05 | 1 | 0501003.D | RXI-5SILMS 0.45(mm) |
| MB 240-41671/21-A | | 05/01/2012 09:23 | 1 | 0501004.D | RXI-5SILMS 0.45(mm) |
| LCS 240-41671/22-A | | 05/01/2012 09:40 | 1 | 0501005.D | RXI-5SILMS 0.45(mm) |
| ZZZZZ | | 05/01/2012 09:58 | 1 | | RXI-5SILMS 0.45(mm) |
| ZZZZZ | | 05/01/2012 10:15 | 1 | | RXI-5SILMS 0.45(mm) |
| ZZZZZ | | 05/01/2012 10:33 | 1 | | RXI-5SILMS 0.45(mm) |
| ZZZZZ | | 05/01/2012 10:51 | 20 | | RXI-5SILMS 0.45(mm) |
| ZZZZZ | | 05/01/2012 11:09 | 1 | | RXI-5SILMS 0.45(mm) |
| ZZZZZ | | 05/01/2012 11:26 | 1 | | RXI-5SILMS 0.45(mm) |
| ZZZZZ | | 05/01/2012 11:44 | 1 | | RXI-5SILMS 0.45(mm) |
| ZZZZZ | | 05/01/2012 12:02 | 1 | | RXI-5SILMS 0.45(mm) |
| ZZZZZ | | 05/01/2012 12:19 | 1 | | RXI-5SILMS 0.45(mm) |
| ZZZZZ | | 05/01/2012 12:37 | 1 | | RXI-5SILMS 0.45(mm) |
| ZZZZZ | | 05/01/2012 12:55 | 1 | | RXI-5SILMS 0.45(mm) |
| ZZZZZ | | 05/01/2012 13:13 | 1 | | RXI-5SILMS 0.45(mm) |
| ZZZZZ | | 05/01/2012 13:30 | 1 | | RXI-5SILMS 0.45(mm) |
| ZZZZZ | | 05/01/2012 13:48 | 1 | | RXI-5SILMS 0.45(mm) |
| ZZZZZ | | 05/01/2012 14:06 | 1 | | RXI-5SILMS 0.45(mm) |
| ZZZZZ | | 05/01/2012 14:23 | 1 | | RXI-5SILMS 0.45(mm) |
| ZZZZZ | | 05/01/2012 14:41 | 1 | | RXI-5SILMS 0.45(mm) |
| ZZZZZ | | 05/01/2012 14:59 | 1 | | RXI-5SILMS 0.45(mm) |
| ZZZZZ | | 05/01/2012 15:17 | 1 | | RXI-5SILMS 0.45(mm) |
| 240-10552-Q-15-A MS | | 05/01/2012 15:34 | 1 | 0501025.D | RXI-5SILMS 0.45(mm) |
| 240-10552-U-15-A MSD | | 05/01/2012 15:52 | 1 | 0501026.D | RXI-5SILMS 0.45(mm) |
| ZZZZZ | | 05/01/2012 16:10 | 1 | | RXI-5SILMS 0.45(mm) |
| ZZZZZ | | 05/01/2012 16:28 | 1 | | RXI-5SILMS 0.45(mm) |
| 240-10598-2 | MT-MW04S | 05/01/2012 16:45 | 1 | 0501029.D | RXI-5SILMS 0.45(mm) |
| 240-10598-3 | MT-MW06S | 05/01/2012 17:03 | 1 | 0501030.D | RXI-5SILMS 0.45(mm) |
| ZZZZZ | | 05/01/2012 17:21 | 1 | | RXI-5SILMS 0.45(mm) |
| ZZZZZ | | 05/01/2012 17:39 | 1 | | RXI-5SILMS 0.45(mm) |
| ZZZZZ | | 05/01/2012 17:56 | 1 | | RXI-5SILMS 0.45(mm) |
| ZZZZZ | | 05/01/2012 18:14 | 1 | | RXI-5SILMS 0.45(mm) |
| ZZZZZ | | 05/01/2012 18:32 | 1 | | RXI-5SILMS 0.45(mm) |
| ZZZZZ | | 05/01/2012 18:50 | 1 | | RXI-5SILMS 0.45(mm) |
| ZZZZZ | | 05/01/2012 19:07 | 1 | | RXI-5SILMS 0.45(mm) |
| ZZZZZ | | 05/01/2012 19:25 | 1 | | RXI-5SILMS 0.45(mm) |
| ZZZZZ | | 05/01/2012 19:43 | 1 | | RXI-5SILMS 0.45(mm) |
| ZZZZZ | | 05/01/2012 20:01 | 1 | | RXI-5SILMS 0.45(mm) |

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Lab File ID: 0501001.D DFTPP Injection Date: 05/01/2012

Instrument ID: A4AG2 DFTPP Injection Time: 08:29

Analysis Batch No.: 42274

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 51 | 30.0- 80.0% of mass 198 | 36.5 | |
| 68 | Less than 2.0% of mass 69 | 0.1 | (0.2)1 |
| 69 | Mass 69 relative abundance | 39.7 | |
| 70 | Less than 2.0% of mass 69 | 0.0 | (0.1)1 |
| 127 | 25.0 - 75.0% of mass 198 | 53.6 | |
| 197 | Less than 1.0% of mass 198 | 0.0 | |
| 198 | Base Peak, 100% relative abundance | 100.0 | |
| 199 | 5.0 to 9.0% of mass 198 | 6.7 | |
| 275 | 10.0- 30.0% of mass 198 | 24.7 | |
| 365 | Greater than 0.75% of mass 198 | 3.0 | |
| 441 | Present, but less than mass 443 | 11.1 | |
| 442 | 40.0 - 110.0% of mass 198 | 77.5 | |
| 443 | 15.0 - 24.0% of mass 442 | 15.1 | (19.5)2 |

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | CCV 240-42274/2 | 0501002.D | 05/01/2012 | 08:47 |
| | ICV 240-42274/3 | 0501003.D | 05/01/2012 | 09:05 |
| | MB 240-41671/21-A | 0501004.D | 05/01/2012 | 09:23 |
| | LCS 240-41671/22-A | 0501005.D | 05/01/2012 | 09:40 |
| | 240-10552-Q-15-A MS | 0501025.D | 05/01/2012 | 15:34 |
| | 240-10552-U-15-A MSD | 0501026.D | 05/01/2012 | 15:52 |
| MT-MW04S | 240-10598-2 | 0501029.D | 05/01/2012 | 16:45 |
| MT-MW06S | 240-10598-3 | 0501030.D | 05/01/2012 | 17:03 |

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Lab Sample ID: CCV 240-42274/2 Calibration Date: 05/01/2012 08:47

Instrument ID: A4AG2 Calib Start Date: 04/30/2012 13:15

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/30/2012 15:37

Lab File ID: 0501002.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | Ave | 0.5695 | 0.5365 | | 9.42 | 10.0 | -5.8 | 50.0 |
| N-Nitrosodimethylamine | Ave | 0.9727 | 0.8871 | | 9.12 | 10.0 | -8.8 | 50.0 |
| Pyridine | Ave | 1.519 | 1.492 | | 9.82 | 10.0 | -1.8 | 50.0 |
| Ethyl methacrylate | Ave | 1.232 | 1.144 | | 9.29 | 10.0 | -7.1 | 50.0 |
| 3-Chloropropionitrile | Ave | 0.8311 | 0.7435 | | 8.95 | 10.0 | -10.5 | 50.0 |
| Malononitrile | Qua | | 1.550 | | 9.47 | 10.0 | -5.3 | 50.0 |
| Benzaldehyde | Ave | 1.283 | 0.5752 | | 4.48 | 10.0 | -55.2* | 50.0 |
| Phenol | Ave | 1.941 | 1.826 | | 9.40 | 10.0 | -6.0 | 20.0 |
| Aniline | Ave | 2.443 | 2.281 | | 9.34 | 10.0 | -6.6 | 50.0 |
| Bis(2-chloroethyl)ether | Ave | 1.673 | 1.608 | | 9.62 | 10.0 | -3.8 | 50.0 |
| 2-Chlorophenol | Ave | 1.583 | 1.530 | | 9.67 | 10.0 | -3.3 | 50.0 |
| 1,3-Dichlorobenzene | Ave | 1.578 | 1.534 | | 9.72 | 10.0 | -2.8 | 50.0 |
| 1,4-Dichlorobenzene | Ave | 1.626 | 1.573 | | 9.67 | 10.0 | -3.3 | 50.0 |
| Benzyl alcohol | Ave | 1.031 | 0.9947 | | 9.64 | 10.0 | -3.6 | 50.0 |
| 1,2-Dichlorobenzene | Ave | 1.477 | 1.471 | | 9.96 | 10.0 | -0.4 | 50.0 |
| 2-Methylphenol | Ave | 1.429 | 1.418 | | 9.92 | 10.0 | -0.8 | 50.0 |
| bis (2-chloroisopropyl) ether | Ave | 1.954 | 1.740 | | 8.90 | 10.0 | -11.0 | 50.0 |
| 3 & 4 Methylphenol | Ave | 1.552 | 1.476 | | 9.51 | 10.0 | -4.9 | 50.0 |
| N-Nitrosodi-n-propylamine | Ave | 1.129 | 1.028 | 0.0500 | 9.11 | 10.0 | -8.9 | 50.0 |
| Acetophenone | Ave | 2.073 | 1.969 | | 9.50 | 10.0 | -5.0 | 50.0 |
| Hexachloroethane | Ave | 0.5884 | 0.5711 | | 9.71 | 10.0 | -2.9 | 50.0 |
| Nitrobenzene | Ave | 0.3725 | 0.3501 | | 9.40 | 10.0 | -6.0 | 50.0 |
| Isophorone | Ave | 0.7185 | 0.6609 | | 9.20 | 10.0 | -8.0 | 50.0 |
| 2,4-Dimethylphenol | Ave | 0.3623 | 0.3428 | | 9.46 | 10.0 | -5.4 | 50.0 |
| 2-Nitrophenol | Ave | 0.1926 | 0.1895 | | 9.84 | 10.0 | -1.6 | 20.0 |
| 1,3,5-Trichlorobenzene | Ave | 0.2834 | 0.2766 | | 9.76 | 10.0 | -2.4 | 50.0 |
| Bis(2-chloroethoxy)methane | Ave | 0.4206 | 0.3929 | | 9.34 | 10.0 | -6.6 | 50.0 |
| Benzoic acid | Qua | | 0.2078 | | 17.7 | 20.0 | -11.5 | 50.0 |
| 2,4-Dichlorophenol | Ave | 0.2673 | 0.2706 | | 10.1 | 10.0 | 1.2 | 20.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.2822 | 0.2771 | | 9.82 | 10.0 | -1.8 | 50.0 |
| Naphthalene | Ave | 1.129 | 1.064 | | 9.43 | 10.0 | -5.7 | 50.0 |
| 4-Chloroaniline | Ave | 0.4756 | 0.4532 | | 9.53 | 10.0 | -4.7 | 50.0 |
| Hexachlorobutadiene | Ave | 0.1264 | 0.1237 | | 9.79 | 10.0 | -2.1 | 20.0 |
| 1,2,3-Trichlorobenzene | Ave | 0.2653 | 0.2636 | | 9.94 | 10.0 | -0.6 | 50.0 |
| Caprolactam | Qua | | 0.1304 | | 8.96 | 10.0 | -10.4 | 50.0 |
| 4-Chloro-3-methylphenol | Ave | 0.3144 | 0.3081 | | 9.80 | 10.0 | -2.0 | 20.0 |
| 2-Methylnaphthalene | Ave | 0.7092 | 0.6887 | | 9.71 | 10.0 | -2.9 | 50.0 |
| 1-Methylnaphthalene | Ave | 0.6791 | 0.6501 | | 9.57 | 10.0 | -4.3 | 50.0 |
| 1,2,3,5-Tetrachlorobenzene | Ave | 0.4537 | 0.4525 | | 9.97 | 10.0 | -0.3 | 50.0 |
| Hexachlorocyclopentadiene | Ave | 0.2414 | 0.2513 | 0.0500 | 10.4 | 10.0 | 4.1 | 50.0 |

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-10598-1

SDG No.:

Lab Sample ID: ICV 240-42274/3  Calibration Date: 05/01/2012 09:05

Instrument ID: A4AG2  Calib Start Date: 04/30/2012 13:15

GC Column: RXI-5SILMS  ID: 0.45(mm)  Calib End Date: 04/30/2012 15:37

Lab File ID: 0501003.D  Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | Ave | 0.5695 | 0.5708 | | 10.0 | 10.0 | 0.2 | 50.0 |
| N-Nitrosodimethylamine | Ave | 0.9727 | 0.9032 | | 9.29 | 10.0 | -7.1 | 50.0 |
| Pyridine | Ave | 1.519 | 1.532 | | 10.1 | 10.0 | 0.8 | 50.0 |
| Ethyl methacrylate | Ave | 1.232 | 1.194 | | 9.70 | 10.0 | -3.0 | 50.0 |
| 3-Chloropropionitrile | Ave | 0.8311 | 0.7699 | | 9.26 | 10.0 | -7.4 | 50.0 |
| Malononitrile | Qua | | 1.585 | | 9.73 | 10.0 | -2.7 | 50.0 |
| Benzaldehyde | Ave | 1.283 | 0.6291 | | 4.90 | 10.0 | -51.0* | 50.0 |
| Phenol | Ave | 1.941 | 1.827 | | 9.41 | 10.0 | -5.9 | 20.0 |
| Aniline | Ave | 2.443 | 2.303 | | 9.43 | 10.0 | -5.7 | 50.0 |
| Bis(2-chloroethyl)ether | Ave | 1.673 | 1.621 | | 9.69 | 10.0 | -3.1 | 50.0 |
| 2-Chlorophenol | Ave | 1.583 | 1.558 | | 9.84 | 10.0 | -1.6 | 50.0 |
| 1,3-Dichlorobenzene | Ave | 1.578 | 1.567 | | 9.93 | 10.0 | -0.7 | 50.0 |
| 1,4-Dichlorobenzene | Ave | 1.626 | 1.611 | | 9.91 | 10.0 | -0.9 | 20.0 |
| Benzyl alcohol | Ave | 1.031 | 0.9846 | | 9.55 | 10.0 | -4.5 | 50.0 |
| 1,2-Dichlorobenzene | Ave | 1.477 | 1.490 | | 10.1 | 10.0 | 0.9 | 50.0 |
| 2-Methylphenol | Ave | 1.429 | 1.431 | | 10.0 | 10.0 | 0.2 | 50.0 |
| bis (2-chloroisopropyl) ether | Ave | 1.954 | 1.755 | | 8.98 | 10.0 | -10.2 | 50.0 |
| 3 & 4 Methylphenol | Ave | 1.552 | 1.495 | | 9.63 | 10.0 | -3.7 | 50.0 |
| N-Nitrosodi-n-propylamine | Ave | 1.129 | 1.041 | 0.0500 | 9.22 | 10.0 | -7.8 | 50.0 |
| Acetophenone | Ave | 2.073 | 2.000 | | 9.65 | 10.0 | -3.5 | 50.0 |
| Hexachloroethane | Ave | 0.5884 | 0.5789 | | 9.84 | 10.0 | -1.6 | 50.0 |
| Nitrobenzene | Ave | 0.3725 | 0.3562 | | 9.56 | 10.0 | -4.4 | 50.0 |
| Isophorone | Ave | 0.7185 | 0.6691 | | 9.31 | 10.0 | -6.9 | 50.0 |
| 2,4-Dimethylphenol | Ave | 0.3623 | 0.3453 | | 9.53 | 10.0 | -4.7 | 50.0 |
| 2-Nitrophenol | Ave | 0.1926 | 0.1966 | | 10.2 | 10.0 | 2.1 | 20.0 |
| 1,3,5-Trichlorobenzene | Ave | 0.2834 | 0.2834 | | 10.0 | 10.0 | -0.0 | 50.0 |
| Bis(2-chloroethoxy)methane | Ave | 0.4206 | 0.4016 | | 9.55 | 10.0 | -4.5 | 50.0 |
| Benzoic acid | Qua | | 0.2014 | | 17.2 | 20.0 | -14.0 | 50.0 |
| 2,4-Dichlorophenol | Ave | 0.2673 | 0.2734 | | 10.2 | 10.0 | 2.3 | 20.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.2822 | 0.2834 | | 10.0 | 10.0 | 0.4 | 50.0 |
| Naphthalene | Ave | 1.129 | 1.096 | | 9.70 | 10.0 | -3.0 | 50.0 |
| 4-Chloroaniline | Ave | 0.4756 | 0.4518 | | 9.50 | 10.0 | -5.0 | 50.0 |
| Hexachlorobutadiene | Ave | 0.1264 | 0.1288 | | 10.2 | 10.0 | 1.9 | 20.0 |
| 1,2,3-Trichlorobenzene | Ave | 0.2653 | 0.2680 | | 10.1 | 10.0 | 1.0 | 50.0 |
| Caprolactam | Qua | | 0.1313 | | 9.03 | 10.0 | -9.7 | 50.0 |
| 4-Chloro-3-methylphenol | Ave | 0.3144 | 0.3094 | | 9.84 | 10.0 | -1.6 | 20.0 |
| 2-Methylnaphthalene | Ave | 0.7092 | 0.6990 | | 9.86 | 10.0 | -1.4 | 50.0 |
| 1-Methylnaphthalene | Ave | 0.6791 | 0.6603 | | 9.72 | 10.0 | -2.8 | 50.0 |
| Hexachlorocyclopentadiene | Ave | 0.2414 | 0.2610 | 0.0500 | 10.8 | 10.0 | 8.1 | 50.0 |
| 1,2,3,5-Tetrachlorobenzene | Ave | 0.4537 | 0.4620 | | 10.2 | 10.0 | 1.8 | 50.0 |

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Lab File ID: 0501004.D Lab Sample ID: MB 240-41671/21-A

Matrix: Water Date Extracted: 04/26/2012 08:59

Instrument ID: A4AG2 Date Analyzed: 05/01/2012 09:23

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| | LCS 240-41671/22-A | 0501005.D | 05/01/2012 09:40 |
| | 240-10552-Q-15-A MS | 0501025.D | 05/01/2012 15:34 |
| | 240-10552-U-15-A MSD | 0501026.D | 05/01/2012 15:52 |
| MT-MW04S | 240-10598-2 | 0501029.D | 05/01/2012 16:45 |
| MT-MW06S | 240-10598-3 | 0501030.D | 05/01/2012 17:03 |

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-10598-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-41671/21-A

Matrix: Water | Lab File ID: 0501004.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3520C | Date Extracted: 04/26/2012 08:59

Sample wt/vol: 1000(mL) | Date Analyzed: 05/01/2012 09:23

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 42274 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 123-91-1 | 1,4-Dioxane | 1.0 | U | 1.0 | 0.49 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 321-60-8 | 2-Fluorobiphenyl (Surr) | 47 | | 28-110 |
| 367-12-4 | 2-Fluorophenol (Surr) | 47 | | 10-110 |
| 118-79-6 | 2,4,6-Tribromophenol (Surr) | 45 | | 22-120 |
| 4165-60-0 | Nitrobenzene-d5 (Surr) | 45 | | 27-111 |
| 4165-62-2 | Phenol-d5 (Surr) | 46 | | 10-110 |
| 1718-51-0 | Terphenyl-d14 (Surr) | 66 | | 37-119 |

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 0501005.D

Lab ID: LCS 240-41671/22-A Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| 1,4-Dioxane | 20.0 | 13.0 | 65 | 10-110 | |

# Column to be used to flag recovery and RPD values

FORM III 8270C

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Sample No.: STD6 240-42126/5 Date Analyzed: 04/30/2012 14:08

Instrument ID: A4AG2 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 0430005.D Heated Purge: (Y/N) N

Calibration ID: 8434

| | | DCB | | NPT | | ANT | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | | 296592 | 3.68 | 1276255 | 4.59 | 695164 | 5.86 |
| UPPER LIMIT | | 593184 | 4.18 | 2552510 | 5.09 | 1390328 | 6.36 |
| LOWER LIMIT | | 148296 | 3.18 | 638128 | 4.09 | 347582 | 5.36 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| CCV 240-42274/2 CCVIS | | 360379 | 3.58 | 1508108 | 4.47 | 812845 | 5.75 |
| ICV 240-42274/3 | | 356861 | 3.58 | 1483234 | 4.47 | 792419 | 5.75 |

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270C

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Sample No.: STD6 240-42126/5 Date Analyzed: 04/30/2012 14:08

Instrument ID: A4AG2 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 0430005.D Heated Purge: (Y/N) N

Calibration ID: 8434

| | | PHN | | CRY | | PRY | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | | 1087336 | 6.96 | 992470 | 8.96 | 923665 | 10.52 |
| UPPER LIMIT | | 2174672 | 7.46 | 1984940 | 9.46 | 1847330 | 11.02 |
| LOWER LIMIT | | 543668 | 6.46 | 496235 | 8.46 | 461833 | 10.02 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| CCV 240-42274/2 CCVIS | | 1259704 | 6.84 | 1089704 | 8.82 | 1027957 | 10.28 |
| ICV 240-42274/3 | | 1218080 | 6.84 | 1073389 | 8.82 | 992749 | 10.28 |

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270C

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton  Job No.: 240-10598-1

SDG No.:

Sample No.: CCV 240-42274/2  Date Analyzed: 05/01/2012 08:47

Instrument ID: A4AG2  GC Column: RXI-5SILMS  ID: 0.45(mm)

Lab File ID (Standard): 0501002.D  Heated Purge: (Y/N) N

Calibration ID: 8434

| | | DCB | | NPT | | ANT | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 360379 | 3.58 | 1508108 | 4.47 | 812845 | 5.75 |
| UPPER LIMIT | | 720758 | 4.08 | 3016216 | 4.97 | 1625690 | 6.25 |
| LOWER LIMIT | | 180190 | 3.08 | 754054 | 3.97 | 406423 | 5.25 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| MB 240-41671/21-A | | 370468 | 3.58 | 1523922 | 4.47 | 835901 | 5.74 |
| LCS 240-41671/22-A | | 357218 | 3.58 | 1488091 | 4.47 | 830775 | 5.75 |
| 240-10552-Q-15-A MS | | 373991 | 3.58 | 1524197 | 4.48 | 843121 | 5.75 |
| 240-10552-U-15-A MSD | | 303516 | 3.58 | 1275017 | 4.48 | 724837 | 5.75 |
| 240-10598-2 | MT-MW04S | 339346 | 3.58 | 1363317 | 4.47 | 715088 | 5.75 |
| 240-10598-3 | MT-MW06S | 423247 | 3.58 | 1566985 | 4.48 | 736253 | 5.75 |

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270C

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Sample No.: CCV 240-42274/2 Date Analyzed: 05/01/2012 08:47

Instrument ID: A4AG2 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 0501002.D Heated Purge: (Y/N) N

Calibration ID: 8434

| | | PHN | | CRY | | PRY | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 1259704 | 6.84 | 1089704 | 8.82 | 1027957 | 10.28 |
| UPPER LIMIT | | 2519408 | 7.34 | 2179408 | 9.32 | 2055914 | 10.78 |
| LOWER LIMIT | | 629852 | 6.34 | 544852 | 8.32 | 513979 | 9.78 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| MB 240-41671/21-A | | 1287166 | 6.84 | 1117554 | 8.81 | 1053124 | 10.28 |
| LCS 240-41671/22-A | | 1296597 | 6.84 | 1135359 | 8.82 | 1065151 | 10.28 |
| 240-10552-Q-15-A MS | | 1324424 | 6.84 | 1203069 | 8.83 | 1118651 | 10.30 |
| 240-10552-U-15-A MSD | | 1156933 | 6.84 | 1084502 | 8.83 | 1040979 | 10.31 |
| 240-10598-2 | MT-MW04S | 1257376 | 6.84 | 1134277 | 8.83 | 1084082 | 10.30 |
| 240-10598-3 | MT-MW06S | 1457348 | 6.84 | 1290432 | 8.83 | 1211618 | 10.30 |

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270C

# GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Canton  Job No.: 240-10598-1

SDG No.:

Batch Number: 41671  Batch Start Date: 04/26/12 11:10  Batch Analyst: Matthews, Brandon

Batch Method: 3520C  Batch End Date: 04/27/12 05:10

| Lab Sample ID | Client Sample ID | Method Chain | Basis | ReceivedpH | InitialAmount | FinalAmount | FirstAdjustpH | EXBNALCS1 00020 | EXBNASURRW 00012 |
|---|---|---|---|---|---|---|---|---|---|
| 240-10598-L-2 | MT-MW04S | 3520C, 8270C | T | 5 SU | 1010 mL | 2 mL | 2 SU | | 1 mL |
| 240-10598-J-3 | MT-MW06S | 3520C, 8270C | T | 5 SU | 980 mL | 2 mL | 2 SU | | 1 mL |
| 240-10552-Q-15 MS | | 3520C, 8270C | T | 7 SU | 1050 mL | 2 mL | 2 SU | 1 mL | 1 mL |
| 240-10552-U-15 MSD | | 3520C, 8270C | T | 7 SU | 1020 mL | 2 mL | 2 SU | 1 mL | 1 mL |
| MB 240-41671/21 | | 3520C, 8270C | | 7 SU | 1000 mL | 2 mL | 2 SU | | 1 mL |
| LCS 240-41671/22 | | 3520C, 8270C | | 7 SU | 1000 mL | 2 mL | 2 SU | 1 mL | 1 mL |

| Lab Sample ID | Client Sample ID | Method Chain | Basis | EXRESTEKSPKW 00010 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 240-10598-L-2 | MT-MW04S | 3520C, 8270C | T | | | | | | |
| 240-10598-J-3 | MT-MW06S | 3520C, 8270C | T | | | | | | |
| 240-10552-Q-15 MS | | 3520C, 8270C | T | 1 mL | | | | | |
| 240-10552-U-15 MSD | | 3520C, 8270C | T | 1 mL | | | | | |
| MB 240-41671/21 | | 3520C, 8270C | | | | | | | |
| LCS 240-41671/22 | | 3520C, 8270C | | 1 mL | | | | | |

| Batch Notes | |
|---|---|
| Acid used for pH adjust Lot # | 178762 |
| Batch Comment | s/s bpm |
| Na2SO4 Lot Number | 275335 |
| Prep Solvent Lot # | 454500 |

| Basis | Basis Description |
|---|---|
| T | Total/NA |

# Method 8015B - GRO

## Gasoline Range Organics (GC) by Method 8015B

FORM II
GASOLINE RANGE ORGANICS SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): RTX-VRX ID: 0.45 (mm)

| Client Sample ID | Lab Sample ID | TFT1 # |
|---|---|---|
| MT-MW04S | 240-10598-2 | 65 |
| MT-MW06S | 240-10598-3 | 64 |
| | MB 240-42055/7 | 63 |
| | LCS 240-42055/8 | 73 |
| MT-MW04S MS | 240-10598-2 MS | 75 |
| MT-MW04S MSD | 240-10598-2 MSD | 71 |

| | QC LIMITS |
|---|---|
| TFT = Trifluorotoluene (Surr) | 10-150 |

# Column to be used to flag recovery values

FORM II 8015B

FORM VI
GASOLINE RANGE ORGANICS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-10598-1 Analy Batch No.: 33435

SDG No.:

Instrument ID: YPID GC Column: RTX-VRX ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/10/2012 16:17 Calibration End Date: 02/10/2012 19:27 Calibration ID: 6924

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-33435/12 | YF021012.D |
| Level 2 | STD2 240-33435/13 | YF021013.D |
| Level 3 | STD3 240-33435/14 | YF021014.D |
| Level 4 | STD4 240-33435/15 | YF021015.D |
| Level 5 | STD5 240-33435/16 | YF021016.D |
| Level 6 | STD6 240-33435/17 | YF021017.D |

| ANALYTE | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 6 | | | | | RT WINDOW | AVG RT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C6-C10) | 11.810 | 11.810 | 11.810 | 11.810 | 11.810 | 11.810 | | | | | 4.817 - 18.802 | 11.810 |
| C6-C12 | 13.469 | 13.469 | 13.469 | 13.469 | 13.469 | 13.469 | | | | | 4.917 - 22.022 | 13.469 |
| Trifluorotoluene (Surr) | 9.768 | 9.772 | 9.769 | 9.772 | 9.771 | 9.774 | | | | | 9.522 - 10.022 | 9.771 |

FORM VI
GASOLINE RANGE ORGANICS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-10598-1 Analy Batch No.: 33435

SDG No.:

Instrument ID: YPID GC Column: RTX-VRX ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/10/2012 16:17 Calibration End Date: 02/10/2012 19:27 Calibration ID: 6924

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-33435/12 | YF021012.D |
| Level 2 | STD2 240-33435/13 | YF021013.D |
| Level 3 | STD3 240-33435/14 | YF021014.D |
| Level 4 | STD4 240-33435/15 | YF021015.D |
| Level 5 | STD5 240-33435/16 | YF021016.D |
| Level 6 | STD6 240-33435/17 | YF021017.D |

| ANALYTE | CF | | | | CURVE TYPE | COEFFICIENT | | | # | MIN CF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 5 | LVL 2<br>LVL 6 | LVL 3 | LVL 4 | | B | M1 | M2 | | | | | | | | |
| Total Petroleum Hydrocarbons (C6-C10) | 318103<br>289067 | 320460<br>294590 | 282575 | 294457 | Ave | | 299875.299 | | | | 5.2 | | 20.0 | | | |
| C6-C12 | 375472<br>318195 | 363940<br>323226 | 316555 | 324196 | Ave | | 336930.834 | | | | 7.7 | | 20.0 | | | |
| Trifluorotoluene (Surr) | 384133<br>460736 | 375012<br>483108 | 395882 | 424093 | Ave | | 420494.083 | | | | 10.0 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GASOLINE RANGE ORGANICS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-10598-1 Analy Batch No.: 33435

SDG No.:

Instrument ID: YPID GC Column: RTX-VRX ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/10/2012 16:17 Calibration End Date: 02/10/2012 19:27 Calibration ID: 6924

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-33435/12 | YF021012.D |
| Level 2 | STD2 240-33435/13 | YF021013.D |
| Level 3 | STD3 240-33435/14 | YF021014.D |
| Level 4 | STD4 240-33435/15 | YF021015.D |
| Level 5 | STD5 240-33435/16 | YF021016.D |
| Level 6 | STD6 240-33435/17 | YF021017.D |

| ANALYTE | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Total Petroleum Hydrocarbons (C6-C10) | Ave | 31810312<br>471343808 | 64091921 | 113029874 | 235565977 | 346880438 | 100<br>1600 | 200 | 400 | 800 | 1200 |
| C6-C12 | Ave | 37547242<br>517161889 | 72788086 | 126621830 | 259357128 | 381833988 | 100<br>1600 | 200 | 400 | 800 | 1200 |
| Trifluorotoluene (Surr) | Ave | 3841333<br>4831084 | 3750122 | 3958818 | 4240925 | 4607363 | 10.0<br>10.0 | 10.0 | 10.0 | 10.0 | 10.0 |

Curve Type Legend:
Ave = Average

FORM VII
GASOLINE RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Lab Sample ID: ICV 240-33435/18 Calibration Date: 02/10/2012 20:05

Instrument ID: YPID Calib Start Date: 02/10/2012 16:17

GC Column: RTX-VRX ID: 0.45(mm) Calib End Date: 02/10/2012 19:27

Lab File ID: YF021018.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C6-C10) | Ave | 299875 | 333932 | | 891 | 800 | 11.4 | 20.0 |
| C6-C12 | Ave | 336931 | 375679 | | 892 | 800 | 11.5 | 20.0 |
| Trifluorotoluene (Surr) | Ave | 420494 | 416828 | | 9.91 | 10.0 | -0.9 | 20.0 |

FORM VII

GASOLINE RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Lab Sample ID: ICV 240-33435/18 Calibration Date: 02/10/2012 20:05

Instrument ID: YPID Calib Start Date: 02/10/2012 16:17

GC Column: RTX-VRX ID: 0.45(mm) Calib End Date: 02/10/2012 19:27

Lab File ID: YF021018.D Heated Purge: (Y/N) N

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | TO | FROM |
| Total Petroleum Hydrocarbons (C6-C10) | 11.81 | 4.82 | 18.80 |
| C6-C12 | 13.47 | 4.92 | 22.02 |
| Trifluorotoluene (Surr) | 9.77 | 9.52 | 10.02 |

FORM VIII
GASOLINE RANGE ORGANICS ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Sample No.: CCV 240-42055/6 Date Analyzed: 04/28/2012 16:30

Instrument ID: YPID GC Column: RTX-VRX ID: 0.45(mm)

Lab File ID (Standard): YF042806.D Heated Purge: (Y/N) N

Calibration ID: 6924

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

| | | | | TFT RT # | | |
|---|---|---|---|---|---|---|
| CONTINUING CALIBRATION SURROGATE | | | | 9.75 | | |
| UPPER LIMIT | | | | 9.85 | | |
| LOWER LIMIT | | | | 9.65 | | |
| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | LAB FILE ID | | | |
| CCV 240-42055/6 CCVRT | | 04/28/2012 16:30 | YF042806.D | 9.75 | | |
| MB 240-42055/7 | | 04/28/2012 17:07 | YF042807.D | 9.75 | | |
| LCS 240-42055/8 | | 04/28/2012 17:45 | YF042808.D | 9.76 | | |
| 240-10598-2 | MT-MW04S | 04/28/2012 18:22 | YF042809.D | 9.75 | | |
| 240-10598-2 MS | MT-MW04S MS | 04/28/2012 18:59 | YF042810.D | 9.75 | | |
| 240-10598-2 MSD | MT-MW04S MSD | 04/28/2012 19:36 | YF042811.D | 9.76 | | |
| 240-10598-3 | MT-MW06S | 04/28/2012 20:13 | YF042812.D | 9.75 | | |
| CCV 240-42055/16 | | 04/28/2012 22:43 | YF042816.D | 9.75 | | |

TFT = Trifluorotoluene (Surr)

TFT RT Limit = ± 0.1 minutes of surrogate RT

# Column used to flag values outside QC limits

FORM VIII 8015B

FORM VII
GASOLINE RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Lab Sample ID: CCV 240-42055/6 Calibration Date: 04/28/2012 16:30

Instrument ID: YPID Calib Start Date: 02/10/2012 16:17

GC Column: RTX-VRX ID: 0.45(mm) Calib End Date: 02/10/2012 19:27

Lab File ID: YF042806.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C6-C10) | Ave | 299875 | 319489 | | 852 | 800 | 6.5 | 15.0 |
| C6-C12 | Ave | 336931 | 355619 | | 844 | 800 | 5.5 | 15.0 |
| Trifluorotoluene (Surr) | Ave | 420494 | 318723 | | 7.58 | 10.0 | -24.2* | 15.0 |

FORM VII

GASOLINE RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Lab Sample ID: CCV 240-42055/6 Calibration Date: 04/28/2012 16:30

Instrument ID: YPID Calib Start Date: 02/10/2012 16:17

GC Column: RTX-VRX ID: 0.45(mm) Calib End Date: 02/10/2012 19:27

Lab File ID: YF042806.D Heated Purge: (Y/N) N

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | TO | FROM |
| Total Petroleum Hydrocarbons (C6-C10) | 11.80 | 4.81 | 18.78 |
| C6-C12 | 13.41 | 4.91 | 21.91 |
| Trifluorotoluene (Surr) | 9.75 | 9.50 | 10.00 |

FORM VII
GASOLINE RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Lab Sample ID: CCV 240-42055/16 Calibration Date: 04/28/2012 22:43

Instrument ID: YPID Calib Start Date: 02/10/2012 16:17

GC Column: RTX-VRX ID: 0.45(mm) Calib End Date: 02/10/2012 19:27

Lab File ID: YF042816.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C6-C10) | Ave | 299875 | 304088 | | 811 | 800 | 1.4 | 15.0 |
| C6-C12 | Ave | 336931 | 340309 | | 808 | 800 | 1.0 | 15.0 |
| Trifluorotoluene (Surr) | Ave | 420494 | 314986 | | 7.49 | 10.0 | -25.1* | 15.0 |

FORM VII

GASOLINE RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Lab Sample ID: CCV 240-42055/16 Calibration Date: 04/28/2012 22:43

Instrument ID: YPID Calib Start Date: 02/10/2012 16:17

GC Column: RTX-VRX ID: 0.45(mm) Calib End Date: 02/10/2012 19:27

Lab File ID: YF042816.D Heated Purge: (Y/N) N

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | TO | FROM |
| Total Petroleum Hydrocarbons (C6-C10) | 11.80 | 4.81 | 18.78 |
| C6-C12 | 13.41 | 4.91 | 21.91 |
| Trifluorotoluene (Surr) | 9.75 | 9.50 | 10.00 |

FORM IV
GASOLINE RANGE ORGANICS METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Lab Sample ID: MB 240-42055/7

Matrix: Water Date Extracted: 04/28/2012 17:07

Lab File ID:(1) YF042807.D Lab File ID:(2)

Date Analyzed:(1) 04/28/2012 17:07 Date Analyzed:(2)

Instrument ID:(1) YPID Instrument ID:(2)

GC Column:(1) RTX-VRX ID: 0.45(mm) GC Column:(2) ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | DATE ANALYZED 1 | DATE ANALYZED 2 |
|---|---|---|---|
| | LCS 240-42055/8 | 04/28/2012 17:45 | |
| MT-MW04S | 240-10598-2 | 04/28/2012 18:22 | |
| MT-MW04S MS | 240-10598-2 MS | 04/28/2012 18:59 | |
| MT-MW04S MSD | 240-10598-2 MSD | 04/28/2012 19:36 | |
| MT-MW06S | 240-10598-3 | 04/28/2012 20:13 | |

FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-10598-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-42055/7

Matrix: Water | Lab File ID: YF042807.D

Analysis Method: 8015B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/28/2012 17:07

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VRX ID: 0.45(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 42055 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 8006-61-9 | Total Petroleum Hydrocarbons (C6-C10) | 32.9 | J | 100 | 25 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 98-08-8 | Trifluorotoluene (Surr) | 63 | | 10-150 |

FORM III
GASOLINE RANGE ORGANICS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Matrix: Water Level: Low Lab File ID: YF042808.D

Lab ID: LCS 240-42055/8 Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C6-C10) | 800 | 896 | 112 | 72-140 | |

# Column to be used to flag recovery and RPD values

FORM III 8015B

FORM III
GASOLINE RANGE ORGANICS MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Matrix: Water Level: Low Lab File ID: YF042810.D

Lab ID: 240-10598-2 MS Client ID: MT-MW04S MS

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C6-C10) | 800 | 49 J | 963 | 114 | 63-143 | |

# Column to be used to flag recovery and RPD values

FORM III 8015B

FORM III

GASOLINE RANGE ORGANICS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Matrix: Water Level: Low Lab File ID: YF042811.D

Lab ID: 240-10598-2 MSD Client ID: MT-MW04S MSD

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD % REC | % RPD | QC LIMITS RPD | QC LIMITS REC | # |
|---|---|---|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C6-C10) | 800 | 930 | 110 | 4 | 20 | 63-143 | |

# Column to be used to flag recovery and RPD values

FORM III 8015B

# Method 8015B - DRO

## Diesel Range Organics (DRO) (GC) by Method 8015B

FORM II
DIESEL RANGE ORGANICS SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): RTX-5 ID: 0.53 (mm)

| Client Sample ID | Lab Sample ID | C91 # |
|---|---|---|
| MT-MW04S | 240-10598-2 | 51 |
| MT-MW06S | 240-10598-3 | 44 |
| | MB 240-41890/15-A | 62 |
| | LCS 240-41890/16-A | 47 |

| | QC LIMITS |
|---|---|
| C9 = n-Nonane | 10-110 |

# Column to be used to flag recovery values

FORM II 8015B

FORM VI
DIESEL RANGE ORGANICS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-10598-1 Analy Batch No.: 41691

SDG No.:

Instrument ID: A2HP6F GC Column: RTX-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/26/2012 12:11 Calibration End Date: 04/26/2012 14:16 Calibration ID: 8406

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-41691/4 | P6F04264.D |
| Level 2 | STD2 240-41691/5 | P6F04265.D |
| Level 3 | STD3 240-41691/6 | P6F04266.D |
| Level 4 | STD4 240-41691/7 | P6F04267.D |
| Level 5 | STD5 240-41691/8 | P6F04268.D |

| ANALYTE | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | | | | | RT WINDOW | AVG RT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel | 9.493 | 9.493 | 9.493 | 9.493 | 9.493 | | | | | | 5.280 - 13.709 | 9.493 |
| n-Nonane | 4.296 | 4.295 | 4.296 | 4.296 | 4.298 | | | | | | 4.246 - 4.346 | 4.296 |

FORM VI
DIESEL RANGE ORGANICS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-10598-1  Analy Batch No.: 41691

SDG No.:

Instrument ID: A2HP6F  GC Column: RTX-5  ID: 0.53(mm)  Heated Purge: (Y/N) N

Calibration Start Date: 04/26/2012 12:11  Calibration End Date: 04/26/2012 14:16  Calibration ID: 8406

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-41691/4 | P6F04264.D |
| Level 2 | STD2 240-41691/5 | P6F04265.D |
| Level 3 | STD3 240-41691/6 | P6F04266.D |
| Level 4 | STD4 240-41691/7 | P6F04267.D |
| Level 5 | STD5 240-41691/8 | P6F04268.D |

| ANALYTE | CF | | | | CURVE TYPE | COEFFICIENT | | | # | MIN CF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 5 | LVL 2 | LVL 3 | LVL 4 | | B | M1 | M2 | | | | | | | | |
| Diesel | 198430<br>174115 | 188482 | 182432 | 173562 | Ave | | 183404.386 | | | | 5.7 | | 20.0 | | | |
| n-Nonane | 213382<br>212758 | 214563 | 217346 | 210050 | Ave | | 213619.735 | | | | 1.2 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
DIESEL RANGE ORGANICS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-10598-1 Analy Batch No.: 41691

SDG No.:

Instrument ID: A2HP6F GC Column: RTX-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/26/2012 12:11 Calibration End Date: 04/26/2012 14:16 Calibration ID: 8406

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-41691/4 | P6F04264.D |
| Level 2 | STD2 240-41691/5 | P6F04265.D |
| Level 3 | STD3 240-41691/6 | P6F04266.D |
| Level 4 | STD4 240-41691/7 | P6F04267.D |
| Level 5 | STD5 240-41691/8 | P6F04268.D |

| ANALYTE | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (NG/UL) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Diesel | Ave | 19843021 | 37696404 | 91215944 | 173562318 | 348230992 | 100 | 200 | 500 | 1000 | 2000 |
| n-Nonane | Ave | 2133821 | 4291261 | 10867284 | 21005029 | 42551511 | 10.0 | 20.0 | 50.0 | 100 | 200 |

Curve Type Legend:
Ave = Average

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Lab Sample ID: ICV 240-41691/9 Calibration Date: 04/26/2012 14:47

Instrument ID: A2HP6F Calib Start Date: 04/26/2012 12:11

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 04/26/2012 14:16

Lab File ID: P6F04269.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Diesel | Ave | 183404 | 171101 | | 467 | 500 | -6.7 | 20.0 |

FORM VII

DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Lab Sample ID: ICV 240-41691/9 Calibration Date: 04/26/2012 14:47

Instrument ID: A2HP6F Calib Start Date: 04/26/2012 12:11

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 04/26/2012 14:16

Lab File ID: P6F04269.D

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | TO | FROM |
| Diesel | 9.49 | 5.28 | 13.71 |

FORM VIII
DIESEL RANGE ORGANICS ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Sample No.: CCVRT 240-42140/4 Date Analyzed: 04/30/2012 11:25

Instrument ID: A2HP6F GC Column: RTX-5 ID: 0.53(mm)

Lab File ID (Standard): P6F04304.D Heated Purge: (Y/N) N

Calibration ID: 8406

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

| | | | | C9 RT # | | |
|---|---|---|---|---|---|---|
| CONTINUING CALIBRATION SURROGATE | | | | 4.29 | | |
| UPPER LIMIT | | | | 4.39 | | |
| LOWER LIMIT | | | | 4.19 | | |
| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | LAB FILE ID | | | |
| CCVRT 240-42140/4 | | 04/30/2012 11:25 | P6F04304.D | 4.29 | | |
| 240-10598-2 | MT-MW04S | 04/30/2012 13:30 | P6F04308.D | 4.29 | | |
| 240-10598-3 | MT-MW06S | 04/30/2012 14:01 | P6F04309.D | 4.29 | | |
| MB 240-41890/15-A | | 04/30/2012 19:13 | P6F04319.D | 4.29 | | |
| LCS 240-41890/16-A | | 04/30/2012 19:44 | P6F04320.D | 4.29 | | |
| CCV 240-42140/21 | | 04/30/2012 20:15 | P6F04321.D | 4.30 | | |

C9 = n-Nonane

C9 RT Limit = ± 0.1 minutes of surrogate RT

# Column used to flag values outside QC limits

FORM VIII 8015B

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-10598-1

SDG No.:

Lab Sample ID: CCVRT 240-42140/4  Calibration Date: 04/30/2012 11:25

Instrument ID: A2HP6F  Calib Start Date: 04/26/2012 12:11

GC Column: RTX-5  ID: 0.53(mm)  Calib End Date: 04/26/2012 14:16

Lab File ID: P6F04304.D  Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Diesel | Ave | 183404 | 184302 | | 502 | 500 | 0.5 | 15.0 |
| n-Nonane | Ave | 213620 | 221736 | | 51.9 | 50.0 | 3.8 | 15.0 |

FORM VII

DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Lab Sample ID: CCVRT 240-42140/4 Calibration Date: 04/30/2012 11:25

Instrument ID: A2HP6F Calib Start Date: 04/26/2012 12:11

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 04/26/2012 14:16

Lab File ID: P6F04304.D

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | TO | FROM |
| Diesel | 9.49 | 5.27 | 13.70 |
| n-Nonane | 4.29 | 4.24 | 4.34 |

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-10598-1

SDG No.:

Lab Sample ID: CCV 240-42140/21  Calibration Date: 04/30/2012 20:15

Instrument ID: A2HP6F  Calib Start Date: 04/26/2012 12:11

GC Column: RTX-5  ID: 0.53(mm)  Calib End Date: 04/26/2012 14:16

Lab File ID: P6F04321.D  Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Diesel | Ave | 183404 | 202278 | | 552 | 500 | 10.3 | 15.0 |
| n-Nonane | Ave | 213620 | 238934 | | 55.9 | 50.0 | 11.8 | 15.0 |

FORM VII

DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Lab Sample ID: CCV 240-42140/21 Calibration Date: 04/30/2012 20:15

Instrument ID: A2HP6F Calib Start Date: 04/26/2012 12:11

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 04/26/2012 14:16

Lab File ID: P6F04321.D

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | TO | FROM |
| Diesel | 9.49 | 5.27 | 13.70 |
| n-Nonane | 4.30 | 4.24 | 4.34 |

FORM IV
DIESEL RANGE ORGANICS METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Lab Sample ID: MB 240-41890/15-A

Matrix: Water Date Extracted: 04/27/2012 10:39

Lab File ID:(1) P6F04319.D Lab File ID:(2)

Date Analyzed:(1) 04/30/2012 19:13 Date Analyzed:(2)

Instrument ID:(1) A2HP6F Instrument ID:(2)

GC Column:(1) RTX-5 ID: 0.53(mm) GC Column:(2) ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | DATE ANALYZED 1 | DATE ANALYZED 2 |
|---|---|---|---|
| MT-MW04S | 240-10598-2 | 04/30/2012 13:30 | |
| MT-MW06S | 240-10598-3 | 04/30/2012 14:01 | |
| | LCS 240-41890/16-A | 04/30/2012 19:44 | |

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-10598-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-41890/15-A

Matrix: Water | Lab File ID: P6F04319.D

Analysis Method: 8015B | Date Collected:

Extraction Method: 3520C | Date Extracted: 04/27/2012 10:39

Sample wt/vol: 1000(mL) | Date Analyzed: 04/30/2012 19:13

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-5 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 42140 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| STL00141 | Total Petroleum Hydrocarbons (C10-C32) | 422 | J | 500 | 240 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 111-84-2 | n-Nonane | 62 | | 10-110 |

FORM III
DIESEL RANGE ORGANICS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P6F04320.D

Lab ID: LCS 240-41890/16-A Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| Diesel | 2500 | 1860 | 74 | 36-124 | |

# Column to be used to flag recovery and RPD values

FORM III 8015B

# DIESEL RANGE ORGANICS BATCH WORKSHEET

Lab Name: TestAmerica Canton  Job No.: 240-10598-1

SDG No.:

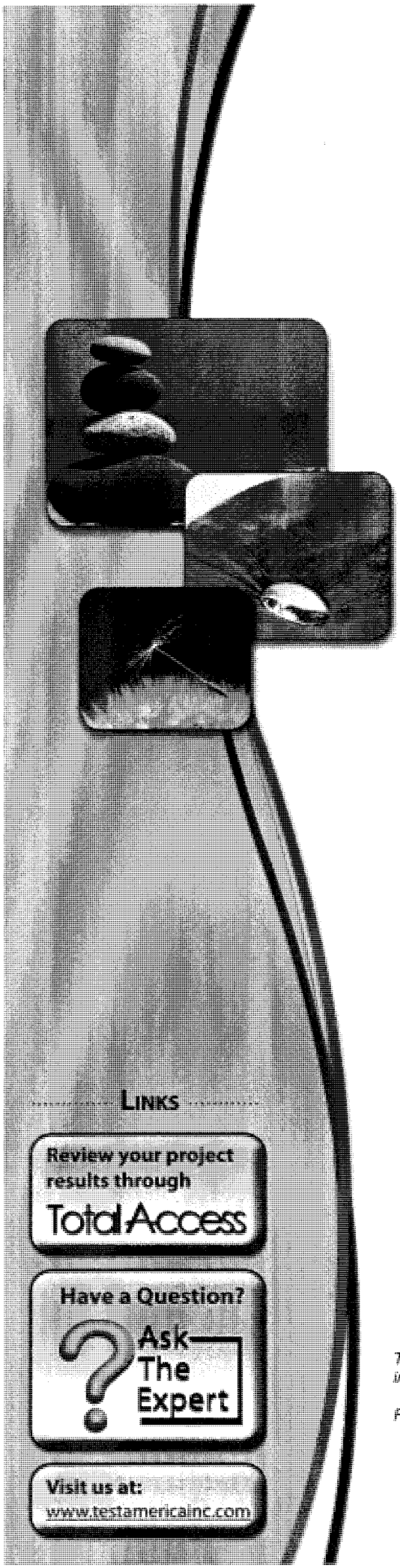
Batch Number: 41890  Batch Start Date: 04/27/12 12:00  Batch Analyst: Kendall, Aaron

Batch Method: 3520C  Batch End Date: 04/28/12 06:00

| Lab Sample ID | Client Sample ID | Method Chain | Basis | InitialAmount | FinalAmount | ReceivedpH | FirstAdjustpH | EXDIESELSPKW 00015 | EXTPHSURR 00011 |
|---|---|---|---|---|---|---|---|---|---|
| 240-10598-K-2 | MT-MW04S | 3520C, 8015B | T | 1020 mL | 5 mL | 6 | 2 | | 1 mL |
| 240-10598-I-3 | MT-MW06S | 3520C, 8015B | T | 1010 mL | 5 mL | 5 | 2 | | 1 mL |
| MB 240-41890/15 | | 3520C, 8015B | | 1000 mL | 5 mL | 7 | 2 | | 1 mL |
| LCS 240-41890/16 | | 3520C, 8015B | | 1000 mL | 5 mL | 7 | 2 | 1 mL | 1 mL |

| Batch Notes | |
|---|---|
| Na2SO4 Lot Number | 275338 |
| Prep Solvent Lot # | 454506 |

| Basis | Basis Description |
|---|---|
| T | Total/NA |




TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica West Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

TestAmerica Job ID: G2D270498
Client Project/Site: 240-10598
Client Project Description: 240-10598/MSA GW

For:
TestAmerica North Canton
4101 Shuffel Street NW
North Canton, OH 44720

Attn: Patrick Omeara

*Authorized for release by:*
*5/11/2012 4:54:37 PM*

Karen Dahl
Project Manager
karen.dahl@testamericainc.com

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

# Case Narrative

## TestAmerica West Sacramento Project Number G2D270498

**WATER, 6850, Perchlorate**
Sample(s): 1, 1, 1, 2
In accordance with the requirements of Method 6850, both a Laboratory Control Sample (LCS) and a Synthetic Matrix Check Sample (SMCS) were analyzed with the associated samples. Both are reported on the LCS data evaluation and recovery reports, and are differentiated from one another by their workorder number:

LCS: MTAGP1AC
SMCS: MTAGP1AD

There were no other anomalies associated with this project.

# ANALYTICAL METHODS SUMMARY

G2D270498

| PARAMETER | ANALYTICAL METHOD |
|---|---|
| Perchlorate by 6850 | SW846 6850 |

**References:**

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

# QC DATA ASSOCIATION SUMMARY

G2D270498

Sample Preparation and Analysis Control Numbers

| SAMPLE# | MATRIX | ANALYTICAL METHOD | LEACH BATCH # | PREP BATCH # | MS RUN# |
|---|---|---|---|---|---|
| 001 | WATER | SW846 6850 | | 2122104 | 2122054 |
| 002 | WATER | SW846 6850 | | 2122104 | 2122054 |

METHOD BLANK REPORT

HPLC - Mass. Spec.

**Client Lot #...:** G2D270498 **Work Order #...:** MTAGP1AA **Matrix.....:** WATER
**MB Lot-Sample #:** G2E010000-104

**Prep Date.....:** 05/01/12
**Analysis Date..:** 05/04/12 **Prep Batch #...:** 2122104
**Dilution Factor:** 1

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---|---|---|---|---|
| Perchlorate | ND | 1.0 | ug/L | SW846 6850 |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC - Mass. Spec.

Client Lot #...: G2D270498 Work Order #...: MTAGP1AC Matrix.....: WATER
LCS Lot-Sample#: G2E010000-104
Prep Date.....: 05/01/12 Analysis Date..: 05/04/12
Prep Batch #...: 2122104
Dilution Factor: 1

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD |
|---|---|---|---|
| Perchlorate | 95 | (80 - 120) | SW846 6850 |

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC - Mass. Spec.

**Client Lot #...:** G2D270498 **Work Order #...:** MTAGP1AD **Matrix.....:** WATER
**LCS Lot-Sample#:** G2E010000-104
**Prep Date.....:** 05/01/12 **Analysis Date..:** 05/04/12
**Prep Batch #...:** 2122104
**Dilution Factor:** 1

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD |
|---|---|---|---|
| **Perchlorate** | **100** | **(80 - 120)** | **SW846 6850** |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results

Bold print denotes control parameters

## MATRIX SPIKE SAMPLE EVALUATION REPORT

### HPLC - Mass. Spec.

**Client Lot #...:** G2D270498 **Work Order #...:** MR86V1AC-MS **Matrix.....:** WATER
**MS Lot-Sample #:** G2D270498-001 MR86V1AD-MSD
**Date Sampled...:** 04/24/12 **Date Received..:** 04/27/12
**Prep Date.....:** 05/01/12 **Analysis Date..:** 05/04/12
**Prep Batch #...:** 2122104
**Dilution Factor:** 1

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD | RPD LIMITS | METHOD |
|---|---|---|---|---|---|
| **Perchlorate** | **100** | **(80 - 120)** | | | **SW846 6850** |
| | **97** | **(80 - 120)** | **2.5** | **(0-15)** | **SW846 6850** |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results

Bold print denotes control parameters

# TestAmerica Inc.
## Perchlorate Analysis by LC/MS/MS; Method 8321 / 6850 / 331 / DOD Handbook

**Batch Data Path** D:\Masshunter\A5-data\Perc_2RNM102911VE 09\04MAY2012\QuantResults\04MAY2012-Perchlorate.batch.xml

**Sequence Table**

| Data File | Sample Name | Position | Level | Sample Type | Acq. Date & Time |
|---|---|---|---|---|---|
| 04MAY12-perc-005.d | Blank No IS | P2-A5 | | Sample | 5/4/2012 13:46 |
| 04MAY12-perc-006.d | LC6850L9_00001 Blank + IS | P2-B1 | | Sample | 5/4/2012 14:02 |
| 04MAY12-perc-007.d | LC6850L1_00001 12LCMS0064, 0.15ng/mL | P2-B2 | 1 | Calibration | 5/4/2012 14:19 |
| 04MAY12-perc-008.d | LC6850L2_00001 12LCMS0065, 0.30ng/mL | P2-B3 | 2 | Calibration | 5/4/2012 14:35 |
| 04MAY12-perc-009.d | LC6850L3_00001 12LCMS0066, 0.50ng/mL | P2-B4 | 3 | Calibration | 5/4/2012 14:51 |
| 04MAY12-perc-010.d | LC6850L4_00001 12LCMS0067, 1.0ng/mL | P2-B5 | 4 | Calibration | 5/4/2012 15:07 |
| 04MAY12-perc-011.d | LC6850L5_00001 12LCMS0068, 2.0ng/mL | P2-B6 | 5 | Calibration | 5/4/2012 15:23 |
| 04MAY12-perc-012.d | LC6850L6_00001 12LCMS0069, 5.0ng/mL | P2-B7 | 6 | Calibration | 5/4/2012 15:40 |
| 04MAY12-perc-013.d | LC6850L7_00001 12LCMS0070, 10ng/mL | P2-B8 | 7 | Calibration | 5/4/2012 15:56 |
| 04MAY12-perc-014.d | LC6850L8_00001 12LCMS0071, 20ng/mL | P2-B9 | 8 | Calibration | 5/4/2012 16:12 |
| 04MAY12-perc-015.d | LC6850L9_00001 Blank + IS | P2-C1 | | Sample | 5/4/2012 16:28 |
| 04MAY12-perc-016.d | LC6850IC_00001 12LCMS0073, 5.0ng/mL | P2-C2 | ICV | QC | 5/4/2012 16:45 |
| 04MAY12-perc-017.d | LC6850L6_00001 12LCMS0069, 5.0ng/mL | P2-C7 | CCV6 | QC | 5/4/2012 17:01 |
| 04MAY12-perc-018.d | LC6850L3_00001 12LCMS0066, 0.50ng/mL | P2-C4 | CCV3 | QC | 5/4/2012 17:17 |
| 04MAY12-perc-019.d | LC6850L1_00001 12LCMS0064, 0.15ng/mL | P2-C3 | LODV | QC | 5/4/2012 17:33 |
| 04MAY12-perc-020.d | G2E010000-MB, 2122104, 2.00mL/2.00mL, 6850-L | P1-A1 | | Sample | 5/4/2012 17:49 |
| 04MAY12-perc-021.d | G2E010000-LCS, 2122104, 2.00mL/2.00mL | P1-A2 | LCS_5 | QC | 5/4/2012 18:06 |
| 04MAY12-perc-022.d | G2E010000-SMCS, 2122104, 2.00mL/2.00mL | P1-A3 | LCS_5 | QC | 5/4/2012 18:22 |
| 04MAY12-perc-023.d | G2D270498-1, 2122104, - *IS missing-see RI* | P1-A4 | | Sample | 5/4/2012 18:38 |
| 04MAY12-perc-024.d | G2D270498-1MS, 2122104, 2.00mL/2.00mL, | P1-A5 | MS_5 | QC | 5/4/2012 18:54 |
| 04MAY12-perc-025.d | G2D270498-1SD, 2122104, 2.00mL/2.00mL, | P1-A6 | MS_5 | QC | 5/4/2012 19:10 |
| 04MAY12-perc-026.d | G2D270498-2, 2122104, 2.00mL/2.00mL, | P1-A7 | | Sample | 5/4/2012 19:27 |
| 04MAY12-perc-027.d | G2D270500-1, 2122104, 2.00mL/2.00mL, | P1-A8 | | Sample | 5/4/2012 19:43 |
| 04MAY12-perc-028.d | G2D300415-1, 2122104, *- IS failed criteria - see 5x dilution* | P1-A9 | | Sample | 5/4/2012 19:59 |
| 04MAY12-perc-029.d | G2D300415-2, 2122104, *- IS failed criteria - see 5x dilution* | P1-B1 | | Sample | 5/4/2012 20:15 |
| 04MAY12-perc-030.d | LC6850L5_00001 12LCMS0068, 2.0ng/mL | P2-C6 | CCV5 | QC | 5/4/2012 20:32 |
| 04MAY12-perc-031.d | LC6850L3_00001 12LCMS0066, 0.50ng/mL | P2-C4 | CCV3 | QC | 5/4/2012 20:48 |



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# TestAmerica Inc.
## Perchlorate Analysis by LC/MS/MS; Method 8321 / 6850 / 331 / DOD Handbook

| | | | | | |
|---|---|---|---|---|---|
| 04MAY12-perc-032.d | LC6850L9_00001 Blank + IS | P2-C1 | | Sample | 5/4/2012 21:04 |
| 04MAY12-perc-033.d | G2D300000-MB, 2121147, 3.00g/10mL, 6850-DOD-S | P1-B2 | | Sample | 5/4/2012 21:20 |
| 04MAY12-perc-034.d | G2D300000-LCS, 2121147, 3.00g/10mL, | P1-B3 | LCS_5 | QC | 5/4/2012 21:36 |
| 04MAY12-perc-035.d | G2D300000-SMCS, 2121147, 3.00g/10mL, | P1-B4 | LCS_5 | QC | 5/4/2012 21:53 |
| 04MAY12-perc-036.d | G2D240413-1, 2121147, 3.00g/10mL, | P1-B5 | | Sample | 5/4/2012 22:09 |
| 04MAY12-perc-037.d | G2D240413-1MS, 2121147, 3.04g/10mL, | P1-B6 | MS_5 | QC | 5/4/2012 22:25 |
| 04MAY12-perc-038.d | G2D240413-1SD, 2121147, 3.06g/10mL, | P1-B7 | MS_5 | QC | 5/4/2012 22:41 |
| 04MAY12-perc-039.d | G2D240413-2, 2121147, 2.99g/10mL, | P1-B8 | | Sample | 5/4/2012 22:58 |
| 04MAY12-perc-040.d | LC6850L6_00001 12LCMS0069, 5.0ng/mL | P2-C7 | CCV6 | QC | 5/4/2012 23:14 |
| 04MAY12-perc-041.d | LC6850L1_00001 12LCMS0064, 0.15ng/mL | P2-C3 | LODV | QC | 5/4/2012 23:30 |
| 04MAY12-perc-042.d | LC6850L9_00001 Blank + IS | P2-C1 | | Sample | 5/4/2012 23:46 |
| 04MAY12-perc-043.d | G2E020000-MB, 2123122, 3.00g/10mL, 6850-DOD-S | P1-B9 | | Sample | 5/5/2012 00:02 |
| 04MAY12-perc-044.d | G2E020000-LCS, 2123122, 3.00g/10mL, | P1-C1 | LCS_5 | QC | 5/5/2012 00:19 |
| 04MAY12-perc-045.d | G2E020000-SMCS, 2123122, 3.00g/10mL, | P1-C2 | LCS_5 | QC | 5/5/2012 00:35 |
| 04MAY12-perc-046.d | G2D270504-1, 2123122, 3.00g/10mL, | P1-C3 | | Sample | 5/5/2012 00:51 |
| 04MAY12-perc-047.d | G2D270504-2, 2123122, 3.01g/10mL, | P1-C4 | | Sample | 5/5/2012 01:07 |
| 04MAY12-perc-048.d | G2D270504-3, 2123122, 3.00g/10mL, | P1-C5 | | Sample | 5/5/2012 01:24 |
| 04MAY12-perc-049.d | G2D270504-4, 2123122, 3.09g/10mL, | P1-C6 | | Sample | 5/5/2012 01:40 |
| 04MAY12-perc-050.d | G2D270504-5, 2123122, 3.01g/10mL, | P1-C7 | | Sample | 5/5/2012 01:56 |
| 04MAY12-perc-051.d | G2D270504-6, 2123122, 3.10g/10mL, | P1-C8 | | Sample | 5/5/2012 02:12 |
| 04MAY12-perc-052.d | G2D270504-7, 2123122, 3.06g/10mL, | P1-C9 | | Sample | 5/5/2012 02:28 |
| 04MAY12-perc-053.d | LC6850L5_00001 12LCMS0068, 2.0ng/mL | P2-C6 | CCV5 | QC | 5/5/2012 02:45 |
| 04MAY12-perc-054.d | LC6850L9_00001 Blank + IS | P2-C1 | | Sample | 5/5/2012 03:01 |
| 04MAY12-perc-055.d | G2D270504-8, 2123122, 3.07g/10mL, | P1-D1 | | Sample | 5/5/2012 03:17 |
| 04MAY12-perc-056.d | G2D270504-9, 2123122, 3.01g/10mL, | P1-D2 | | Sample | 5/5/2012 03:33 |
| 04MAY12-perc-057.d | G2D270504-10, 2123122, 3.03g/10mL, | P1-D3 | | Sample | 5/5/2012 03:50 |
| 04MAY12-perc-058.d | G2D270504-10MS, 2123122, 3.05g/10mL, | P1-D4 | MS_5 | QC | 5/5/2012 04:06 |
| 04MAY12-perc-059.d | G2D270504-10SD, 2123122, 3.07g/10mL, | P1-D5 | MS_5 | QC | 5/5/2012 04:22 |
| 04MAY12-perc-060.d | G2D270504-11, 2123122, 3.00g/10mL, | P1-D6 | | Sample | 5/5/2012 04:38 |
| 04MAY12-perc-061.d | G2D270504-12, 2123122, 3.01g/10mL, | P1-D7 | | Sample | 5/5/2012 04:54 |

**Instrument A5; Agilent 6410 Mass Spectrometer with Agilent 1200 series Binary SL HPLC.**



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# TestAmerica Inc.
## Perchlorate Analysis by LC/MS/MS; Method 8321 / 6850 / 331 / DOD Handbook

| | | | | | |
|---|---|---|---|---|---|
| 04MAY12-perc-062.d | G2D270504-13, 2123122, 3.04g/10mL, | P1-D8 | | Sample | 5/5/2012 05:11 |
| 04MAY12-perc-063.d | G2D270504-14, 2123122, 3.04g/10mL, | P1-D9 | | Sample | 5/5/2012 05:27 |
| 04MAY12-perc-064.d | LC6850L6_00001 12LCMS0069, 5.0ng/mL | P2-C7 | CCV6 | QC | 5/5/2012 05:43 |
| 04MAY12-perc-065.d | LC6850L1_00001 12LCMS0064, 0.15ng/mL | P2-C3 | LODV | QC | 5/5/2012 05:59 |
| 04MAY12-perc-066.d | LC6850L9_00001 Blank + IS | P2-C1 | | Sample | 5/5/2012 06:15 |
| 04MAY12-perc-067.d | G2E020000-MB, 2123123, 3.00g/10mL, 6850-DOD-S | P1-E1 | | Sample | 5/5/2012 06:32 |
| 04MAY12-perc-068.d | G2E020000-LCS, 2123123, 3.00g/10mL, | P1-E2 | LCS_5 | QC | 5/5/2012 06:48 |
| 04MAY12-perc-069.d | G2E020000-SMCS, 2123123, 3.00g/10mL, | P1-E3 | LCS_5 | QC | 5/5/2012 07:04 |
| 04MAY12-perc-070.d | G2D270504-15, 2123123, 3.08g/10mL, | P1-E4 | | Sample | 5/5/2012 07:20 |
| 04MAY12-perc-071.d | G2D270504-15MS, 2123123, 3.00g/10mL, | P1-E5 | MS_5 | QC | 5/5/2012 07:36 |
| 04MAY12-perc-072.d | G2D270504-15SD, 2123123, 3.01g/10mL, | P1-E6 | MS_5 | QC | 5/5/2012 07:53 |
| 04MAY12-perc-073.d | G2D270504-16, 2123123, 3.09g/10mL, | P1-E7 | | Sample | 5/5/2012 08:09 |
| 04MAY12-perc-074.d | G2D270504-17, 2123123, 3.03g/10mL, | P1-E8 | | Sample | 5/5/2012 08:25 |
| 04MAY12-perc-075.d | G2D270504-18, 2123123, 3.00g/10mL, | P1-E9 | | Sample | 5/5/2012 08:41 |
| 04MAY12-perc-076.d | G2D270504-19, 2123123, 3.08g/10mL, | P1-F1 | | Sample | 5/5/2012 08:58 |
| 04MAY12-perc-077.d | LC6850L5_00001 12LCMS0068, 2.0ng/mL | P2-C6 | CCV5 | QC | 5/5/2012 09:14 |
| 04MAY12-perc-078.d | LC6850L9_00001 Blank + IS | P2-C1 | | Sample | 5/5/2012 09:30 |
| 04MAY12-perc-079.d | G2D270504-20, 2123123, 3.04g/10mL, | P1-F2 | | Sample | 5/5/2012 09:46 |
| 04MAY12-perc-080.d | G2D270504-21, 2123123, 3.05g/10mL, | P1-F3 | | Sample | 5/5/2012 10:02 |
| 04MAY12-perc-081.d | G2D270504-22, 2123123, 3.08g/10mL, | P1-F4 | | Sample | 5/5/2012 10:19 |
| 04MAY12-perc-082.d | G2D270504-23, 2123123, 3.00g/10mL, | P1-F5 | | Sample | 5/5/2012 10:35 |
| 04MAY12-perc-083.d | G2D270504-24, 2123123, 3.03g/10mL, | P1-F6 | | Sample | 5/5/2012 10:51 |
| 04MAY12-perc-084.d | G2D270504-25, 2123123, 3.02g/10mL, | P1-F7 | | Sample | 5/5/2012 11:07 |
| 04MAY12-perc-085.d | G2D270504-26, 2123123, 3.01g/10mL, | P1-F8 | | Sample | 5/5/2012 11:23 |
| 04MAY12-perc-086.d | G2D270504-27, 2123123, 3.02g/10mL, | P1-F9 | | Sample | 5/5/2012 11:40 |
| 04MAY12-perc-087.d | LC6850L6_00001 12LCMS0069, 5.0ng/mL | P2-C7 | CCV6 | QC | 5/5/2012 11:56 |
| 04MAY12-perc-088.d | LC6850L1_00001 12LCMS0064, 0.15ng/mL | P2-C3 | LODV | QC | 5/5/2012 12:12 |
| 04MAY12-perc-089.d | LC6850L9_00001 Blank + IS | P2-C1 | | Sample | 5/5/2012 12:28 |



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# TestAmerica Inc.

## Perchlorate Analysis by LC/MS/MS; Method 8321 / 6850 / 331 / DOD Handbook

**Batch Data Path** D:\Masshunter\A5-data\Perc_2RNM102911VE 09\07MAY2012\QuantResults\07May2012-Perchlorate.batch.xml

### Sequence Table

| Data File | Sample Name | Position | Level | Sample Type | Acq. Date & Time |
|---|---|---|---|---|---|
| 07MAY12-perc-005.d | Blank No IS | P2-A5 | | Sample | 5/7/2012 13:21 |
| 07MAY12-perc-006.d | LC6850L9_00001 Blank + IS | P2-B1 | | Sample | 5/7/2012 13:37 |
| 07MAY12-perc-007.d | LC6850L1_00001 12LCMS0064, 0.15ng/mL | P2-B2 | 1 | Calibration | 5/7/2012 13:53 |
| 07MAY12-perc-008.d | LC6850L2_00001 12LCMS0065, 0.30ng/mL | P2-B3 | 2 | Calibration | 5/7/2012 14:09 |
| 07MAY12-perc-009.d | LC6850L3_00001 12LCMS0066, 0.50ng/mL | P2-B4 | 3 | Calibration | 5/7/2012 14:26 |
| 07MAY12-perc-010.d | LC6850L4_00001 12LCMS0067, 1.0ng/mL | P2-B5 | 4 | Calibration | 5/7/2012 14:42 |
| 07MAY12-perc-011.d | LC6850L5_00001 12LCMS0068, 2.0ng/mL | P2-B6 | 5 | Calibration | 5/7/2012 14:58 |
| 07MAY12-perc-012.d | LC6850L6_00001 12LCMS0069, 5.0ng/mL | P2-B7 | 6 | Calibration | 5/7/2012 15:14 |
| 07MAY12-perc-013.d | LC6850L7_00001 12LCMS0070, 10ng/mL | P2-B8 | 7 | Calibration | 5/7/2012 15:31 |
| 07MAY12-perc-014.d | LC6850L8_00001 12LCMS0071, 20ng/mL | P2-B9 | 8 | Calibration | 5/7/2012 15:47 |
| 07MAY12-perc-015.d | LC6850L9_00001 Blank + IS | P2-C1 | | Sample | 5/7/2012 16:03 |
| 07MAY12-perc-016.d | LC6850IC_00001 12LCMS0073, 5.0ng/mL | P2-C2 | ICV | QC | 5/7/2012 16:19 |
| 07MAY12-perc-017.d | LC6850L6_00001 12LCMS0069, 5.0ng/mL | P2-C7 | CCV6 | QC | 5/7/2012 16:35 |
| 07MAY12-perc-018.d | LC6850L3_00001 12LCMS0066, 0.50ng/mL | P2-C4 | CCV3 | QC | 5/7/2012 16:52 |
| 07MAY12-perc-019.d ✓ | G2D270498-1, 2122104, 2.00mL/2.00mL, RI | P1-A1 | | Sample | 5/7/2012 17:08 |
| 07MAY12-perc-020.d | G2D300415-1, 2122104, 2.00mL/2.00mL, 5x | P1-A2 | | Sample | 5/7/2012 17:24 |
| 07MAY12-perc-021.d | G2D300415-2, 2122104, 2.00mL/2.00mL, 5x | P1-A3 | | Sample | 5/7/2012 17:40 |
| 07MAY12-perc-022.d | LC6850L5_00001 12LCMS0068, 2.0ng/mL | P2-C6 | CCV5 | QC | 5/7/2012 17:57 |
| 07MAY12-perc-023.d | LC6850L3_00001 12LCMS0066, 0.50ng/mL | P2-C4 | CCV3 | QC | 5/7/2012 18:13 |
| 07MAY12-perc-024.d | LC6850L9_00001 Blank + IS | P2-C1 | | Sample | 5/7/2012 18:29 |

# ICAL Data

G2D270498

# QQQ Checktune Report

| | | | |
|---|---|---|---|
| **Instrument Name** | Instrument 1 | **MS Model** | G6410A |
| **Tune Date & Time** | 2012-05-04 12:21 | | |
| **Data Path** | D:\MassHunter\Tune\QQQ\atunes.TUNE.XML | | |
| **Ion Source** | ESI | | |
| **Ionization Mode** | ESI | | |

**Negative Results**

***Analyzer: MS1*** ***Polarity: Negative*** ***Width: Unit***

| m/z | m/z Exp | Tolerance | Delta | Result | FWHM | FWHM Exp | Tolerance | Delta | Result | Abundance | Minimum1 | Result |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 112.99 | 112.99 | 0.10 | 0.00 | [illegible] | 0.69 | 0.70 | 0.10 | -0.01 | [illegible] | 47276 | 0 | [illegible] |
| 301.98 | 302.00 | 0.10 | -0.02 | [illegible] | 0.71 | 0.70 | 0.10 | 0.01 | [illegible] | 272911 | 0 | [illegible] |
| 601.96 | 601.98 | 0.10 | -0.02 | [illegible] | 0.69 | 0.70 | 0.10 | -0.01 | [illegible] | 700864 | 0 | [illegible] |
| 1033.94 | 1033.99 | 0.10 | -0.05 | [illegible] | 0.70 | 0.70 | 0.10 | 0.00 | [illegible] | 309536 | 0 | [illegible] |
| 1333.93 | 1333.97 | 0.10 | -0.04 | [illegible] | 0.68 | 0.70 | 0.10 | -0.02 | [illegible] | 488183 | 0 | [illegible] |
| 1633.91 | 1633.95 | 0.10 | -0.04 | [illegible] | 0.72 | 0.70 | 0.10 | 0.02 | [illegible] | 427994 | 0 | [illegible] |

***Analyzer: MS2*** ***Polarity: Negative*** ***Width: Unit***

| m/z | m/z Exp | Tolerance | Delta | Result | FWHM | FWHM Exp | Tolerance | Delta | Result | Abundance | Minimum1 | Result |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 113.00 | 112.99 | 0.10 | 0.01 | [illegible] | 0.71 | 0.70 | 0.10 | 0.01 | [illegible] | 175059 | 0 | [illegible] |
| 301.99 | 302.00 | 0.10 | -0.01 | [illegible] | 0.71 | 0.70 | 0.10 | 0.01 | [illegible] | 260034 | 0 | [illegible] |
| 601.99 | 601.98 | 0.10 | 0.01 | [illegible] | 0.70 | 0.70 | 0.10 | 0.00 | [illegible] | 392769 | 0 | [illegible] |
| 1034.00 | 1033.99 | 0.10 | 0.01 | [illegible] | 0.70 | 0.70 | 0.10 | 0.00 | [illegible] | 166060 | 0 | [illegible] |
| 1333.98 | 1333.97 | 0.10 | 0.01 | [illegible] | 0.70 | 0.70 | 0.10 | 0.00 | [illegible] | 412304 | 0 | [illegible] |
| 1633.94 | 1633.95 | 0.10 | -0.01 | [illegible] | 0.67 | 0.70 | 0.10 | -0.03 | [illegible] | 301887 | 0 | [illegible] |

***Analyzer: MS1*** ***Polarity: Negative*** ***Width: Wide***

| m/z | m/z Exp | Tolerance | Delta | Result | FWHM | FWHM Exp | Tolerance | Delta | Result | Abundance | Minimum1 | Result |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 113.01 | 112.99 | 0.30 | 0.02 | [illegible] | 1.17 | 1.20 | 0.60 | -0.03 | [illegible] | 54893 | 0 | [illegible] |
| 301.93 | 302.00 | 0.30 | -0.07 | [illegible] | 1.29 | 1.20 | 0.60 | 0.09 | [illegible] | 397274 | 0 | [illegible] |
| 601.92 | 601.98 | 0.30 | -0.06 | [illegible] | 1.31 | 1.20 | 0.60 | 0.11 | [illegible] | 1215911 | 0 | [illegible] |
| 1033.91 | 1033.99 | 0.30 | -0.08 | [illegible] | 1.30 | 1.20 | 0.60 | 0.10 | [illegible] | 637311 | 0 | [illegible] |
| 1333.91 | 1333.97 | 0.30 | -0.06 | [illegible] | 1.28 | 1.20 | 0.60 | 0.08 | [illegible] | 1184873 | 0 | [illegible] |
| 1633.89 | 1633.95 | 0.30 | -0.06 | [illegible] | 1.20 | 1.20 | 0.60 | 0.00 | [illegible] | 1165571 | 0 | [illegible] |



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# QQQ Checktune Report

***Analyzer: MS2*** ***Polarity: Negative*** ***Width: Wide***

| m/z | m/z Exp | Tolerance | Delta | Result | FWHM | FWHM Exp | Tolerance | Delta | Result | Abundance | Minimum1 | Result |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 113.03 | 112.99 | 0.30 | 0.04 | [illegible] | 1.18 | 1.20 | 0.60 | -0.02 | [illegible] | 230119 | 0 | [illegible] |
| 301.97 | 302.00 | 0.30 | -0.03 | [illegible] | 1.23 | 1.20 | 0.60 | 0.03 | [illegible] | 386564 | 0 | [illegible] |
| 601.93 | 601.98 | 0.30 | -0.05 | [illegible] | 1.25 | 1.20 | 0.60 | 0.05 | [illegible] | 624630 | 0 | [illegible] |
| 1033.94 | 1033.99 | 0.30 | -0.05 | [illegible] | 1.25 | 1.20 | 0.60 | 0.05 | [illegible] | 318821 | 0 | [illegible] |
| 1333.91 | 1333.97 | 0.30 | -0.06 | [illegible] | 1.26 | 1.20 | 0.60 | 0.06 | [illegible] | 751870 | 0 | [illegible] |
| 1633.92 | 1633.95 | 0.30 | -0.03 | [illegible] | 1.25 | 1.20 | 0.60 | 0.05 | [illegible] | 591402 | 0 | [illegible] |

***Analyzer: MS1*** ***Polarity: Negative*** ***Width: Widest***

| m/z | m/z Exp | Tolerance | Delta | Result | FWHM | FWHM Exp | Tolerance | Delta | Result | Abundance | Minimum1 | Result |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 112.89 | 112.99 | 0.50 | -0.10 | [illegible] | 2.78 | 2.50 | 1.25 | 0.28 | [illegible] | 63235 | 0 | [illegible] |
| 301.86 | 302.00 | 0.50 | -0.14 | [illegible] | 2.86 | 2.50 | 1.25 | 0.36 | [illegible] | 473017 | 0 | [illegible] |
| 601.88 | 601.98 | 0.50 | -0.10 | [illegible] | 2.86 | 2.50 | 1.25 | 0.36 | [illegible] | 1348564 | 0 | [illegible] |
| 1033.92 | 1033.99 | 0.50 | -0.07 | [illegible] | 2.77 | 2.50 | 1.25 | 0.27 | [illegible] | 850342 | 0 | [illegible] |
| 1333.97 | 1333.97 | 0.50 | 0.00 | [illegible] | 2.69 | 2.50 | 1.25 | 0.19 | [illegible] | 1720350 | 0 | [illegible] |
| 1633.98 | 1633.95 | 0.50 | 0.03 | [illegible] | 2.58 | 2.50 | 1.25 | 0.08 | [illegible] | 1899649 | 0 | [illegible] |

***Analyzer: MS2*** ***Polarity: Negative*** ***Width: Widest***

| m/z | m/z Exp | Tolerance | Delta | Result | FWHM | FWHM Exp | Tolerance | Delta | Result | Abundance | Minimum1 | Result |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 112.89 | 112.99 | 0.50 | -0.10 | [illegible] | 2.58 | 2.50 | 1.25 | 0.08 | [illegible] | 280008 | 0 | [illegible] |
| 301.92 | 302.00 | 0.50 | -0.08 | [illegible] | 2.57 | 2.50 | 1.25 | 0.07 | [illegible] | 527407 | 0 | [illegible] |
| 601.91 | 601.98 | 0.50 | -0.07 | [illegible] | 2.54 | 2.50 | 1.25 | 0.04 | [illegible] | 998661 | 0 | [illegible] |
| 1034.00 | 1033.99 | 0.50 | 0.01 | [illegible] | 2.46 | 2.50 | 1.25 | -0.04 | [illegible] | 627135 | 0 | [illegible] |
| 1333.96 | 1333.97 | 0.50 | -0.01 | [illegible] | 2.47 | 2.50 | 1.25 | -0.03 | [illegible] | 1540124 | 0 | [illegible] |
| 1634.02 | 1633.95 | 0.50 | 0.07 | [illegible] | 2.41 | 2.50 | 1.25 | -0.09 | [illegible] | 1445837 | 0 | [illegible] |

[1] *NOTE* *1) Actual abundances depend on many factors and are instrument specific.*
*To change the minimum abundance, edit the values on the "Options" sheet.*

# TestAmerica Inc.
# Perchlorate Analysis by LC/MS/MS; Method 8321 / 6850 / 331 / DOD Handbook

**Batch Info**

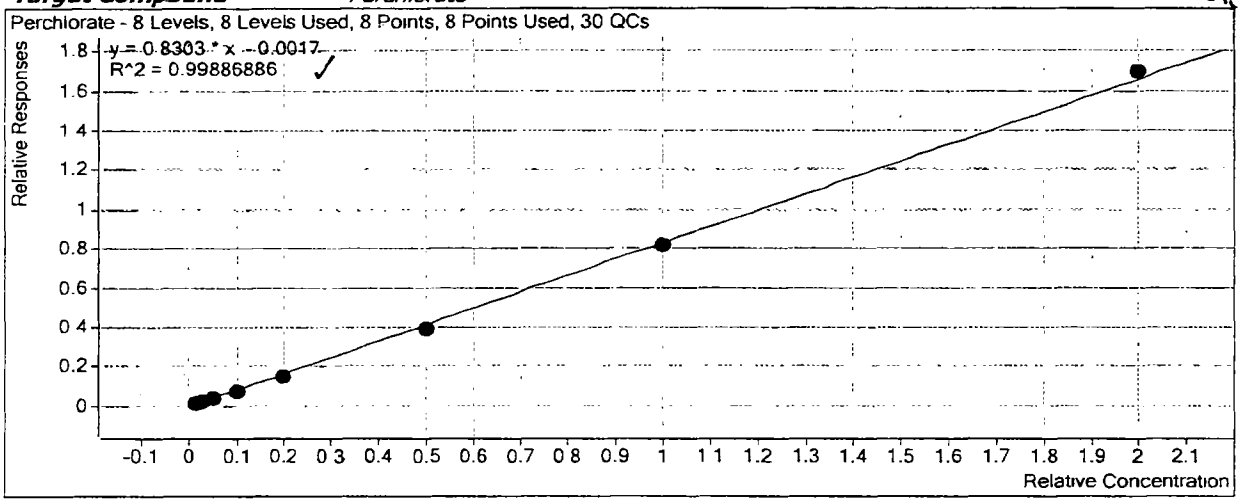
| | | | |
|---|---|---|---|
| **Batch Data Path** | D:\Masshunter\A5-data\Perc_2RNM102911VE 09\04MAY2012\QuantResults\04MAY2012-Perchlorate.batch.xml | | |
| **Analysis Time** | 5/7/2012 7:54 AM | **Analyst Name** | lores |
| **Report Time** | 5/7/2012 8:02 AM | **Reporter Name** | lores |
| **Last Calib Update** | 5/7/2012 7:54 AM | **Batch State** | Processed |

**Calibration Info** Linear fit, 1/x weighting, and origin ignored.

m 5/9/12

DCL 5-7-12

***Target Compound*** *Perchlorate*



# TestAmerica Inc.

## Perchlorate Analysis by LC/MS/MS; Method 8321 / 6850 / 331 / DOD Handbook

***Target Compound*** *Perchlorate*

| Calibration STD | Level | Enabled | Response | RF | Exp Conc |
|---|---|---|---|---|---|
| 04MAY12-perc-007.d | 1 | ☑ | 2556 | 0.7938 | 0.1500 |
| 04MAY12-perc-008.d | 2 | ☑ | 3716 | 0.8134 | 0.3000 |
| 04MAY12-perc-009.d | 3 | ☑ | 6142 | 0.7990 | 0.5000 |
| 04MAY12-perc-010.d | 4 | ☑ | 12141 | 0.7713 | 1.0000 |
| 04MAY12-perc-011.d | 5 | ☑ | 24634 | 0.7678 | 2.0000 |
| 04MAY12-perc-012.d | 6 | ☑ | 59680 | 0.7879 | 5.0000 |
| 04MAY12-perc-013.d | 7 | ☑ | 128590 | 0.8176 | 10.0000 |
| 04MAY12-perc-014.d | 8 | ☑ | 216604 | 0.8507 | 20.0000 |
| 04MAY12-perc-018.d | CCV3 | ☑ | 6508 | 0.7991 | 0.5000 |
| 04MAY12-perc-031.d | CCV3 | ☑ | 4954 | 0.7617 | 0.5000 |
| 04MAY12-perc-030.d | CCV5 | ☑ | 18265 | 0.8103 | 2.0000 |
| 04MAY12-perc-053.d | CCV5 | ☑ | 22923 | 0.7848 | 2.0000 |
| 04MAY12-perc-077.d | CCV5 | ☑ | 23800 | 0.7832 | 2.0000 |
| 04MAY12-perc-017.d | CCV6 | ☑ | 65545 | 0.8005 | 5.0000 |
| 04MAY12-perc-040.d | CCV6 | ☑ | 57437 | 0.7933 | 5.0000 |
| 04MAY12-perc-064.d | CCV6 | ☑ | 56986 | 0.8166 | 5.0000 |
| 04MAY12-perc-087.d | CCV6 | ☑ | 57822 | 0.8078 | 5.0000 |
| 04MAY12-perc-016.d | ICV | ☑ | 74936 | 0.8309 | 5.0000 |
| 04MAY12-perc-021.d | LCS_5 | ☑ | 52596 | 0.7880 | 5.0000 |
| 04MAY12-perc-022.d | LCS_5 | ☑ | 52815 | 0.8303 | 5.0000 |
| 04MAY12-perc-034.d | LCS_5 | ☑ | 19193 | 0.2341 | 5.0000 |
| 04MAY12-perc-035.d | LCS_5 | ☑ | 17969 | 0.2372 | 5.0000 |
| 04MAY12-perc-044.d | LCS_5 | ☑ | 18559 | 0.2333 | 5.0000 |
| 04MAY12-perc-045.d | LCS_5 | ☑ | 17619 | 0.2266 | 5.0000 |
| 04MAY12-perc-068.d | LCS_5 | ☑ | 17642 | 0.2325 | 5.0000 |
| 04MAY12-perc-069.d | LCS_5 | ☑ | 17538 | 0.2352 | 5.0000 |
| 04MAY12-perc-019.d | LODV | ☑ | 1905 | 0.8366 | 0.1500 |
| 04MAY12-perc-041.d | LODV | ☑ | 1678 | 0.7868 | 0.1500 |
| 04MAY12-perc-065.d | LODV | ☑ | 1729 | 0.7748 | 0.1500 |
| 04MAY12-perc-088.d | LODV | ☑ | 1952 | 0.8471 | 0.1500 |
| 04MAY12-perc-024.d | MS_5 | ☑ | 53221 | 0.8226 | 5.0000 |
| 04MAY12-perc-025.d | MS_5 | ☑ | 39719 | 0.8019 | 5.0000 |
| 04MAY12-perc-037.d | MS_5 | ☑ | 15926 | 0.2439 | 5.0000 |
| 04MAY12-perc-038.d | MS_5 | ☑ | 16294 | 0.2398 | 5.0000 |
| 04MAY12-perc-058.d | MS_5 | ☑ | 22072 | 0.3207 | 5.0000 |
| 04MAY12-perc-059.d | MS_5 | ☑ | 22495 | 0.3453 | 5.0000 |
| 04MAY12-perc-071.d | MS_5 | ☑ | 15760 | 0.2464 | 5.0000 |
| 04MAY12-perc-072.d | MS_5 | ☑ | 18578 | 0.2493 | 5.0000 |

# TestAmerica Inc.
# Perchlorate Analysis by LC/MS/MS; Method 8321 / 6850 / 331 / DOD Handbook

| ***Target Compound*** | *Perchlorate-(35Cl1804)* | | | | |
|---|---|---|---|---|---|
| **Calibration STD** | **Level** | **Enabled** | **Response** | **RF** | **Exp Conc** |
| 04MAY12-perc-007.d | 1 | ☑ | 214678 | 21467.8200 | 10.0000 |
| 04MAY12-perc-008.d | 2 | ☑ | 152282 | 15228.1955 | 10.0000 |
| 04MAY12-perc-009.d | 3 | ☑ | 153759 | 15375.9420 | 10.0000 |
| 04MAY12-perc-010.d | 4 | ☑ | 157412 | 15741.2495 | 10.0000 |
| 04MAY12-perc-011.d | 5 | ☑ | 160423 | 16042.3023 | 10.0000 |
| 04MAY12-perc-012.d | 6 | ☑ | 151483 | 15148.3132 | 10.0000 |
| 04MAY12-perc-013.d | 7 | ☑ | 157276 | 15727.6221 | 10.0000 |
| 04MAY12-perc-014.d | 8 | ☑ | 127308 | 12730.7669 | 10.0000 |
| 04MAY12-perc-018.d | CCV3 | ☑ | 162869 | 16286.9092 | 10.0000 |
| 04MAY12-perc-031.d | CCV3 | ☑ | 130082 | 13008.1719 | 10.0000 |
| 04MAY12-perc-030.d | CCV5 | ☑ | 112705 | 11270.4702 | 10.0000 |
| 04MAY12-perc-053.d | CCV5 | ☑ | 146039 | 14603.9196 | 10.0000 |
| 04MAY12-perc-077.d | CCV5 | ☑ | 151937 | 15193.7214 | 10.0000 |
| 04MAY12-perc-017.d | CCV6 | ☑ | 163763 | 16376.2776 | 10.0000 |
| 04MAY12-perc-040.d | CCV6 | ☑ | 144799 | 14479.8704 | 10.0000 |
| 04MAY12-perc-064.d | CCV6 | ☑ | 139577 | 13957.7259 | 10.0000 |
| 04MAY12-perc-087.d | CCV6 | ☑ | 143153 | 14315.2820 | 10.0000 |
| 04MAY12-perc-016.d | ICV | ☑ | 180367 | 18036.7158 | 10.0000 |
| 04MAY12-perc-021.d | LCS_5 | ☑ | 133495 | 13349.5034 | 10.0000 |
| 04MAY12-perc-022.d | LCS_5 | ☑ | 127219 | 12721.8618 | 10.0000 |
| 04MAY12-perc-034.d | LCS_5 | ☑ | 163995 | 16399.5129 | 10.0000 |
| 04MAY12-perc-035.d | LCS_5 | ☑ | 151525 | 15152.4519 | 10.0000 |
| 04MAY12-perc-044.d | LCS_5 | ☑ | 159073 | 15907.3269 | 10.0000 |
| 04MAY12-perc-045.d | LCS_5 | ☑ | 155481 | 15548.0511 | 10.0000 |
| 04MAY12-perc-068.d | LCS_5 | ☑ | 151757 | 15175.7361 | 10.0000 |
| 04MAY12-perc-069.d | LCS_5 | ☑ | 149103 | 14910.3263 | 10.0000 |
| 04MAY12-perc-019.d | LODV | ☑ | 151824 | 15182.3853 | 10.0000 |
| 04MAY12-perc-041.d | LODV | ☑ | 142211 | 14221.1355 | 10.0000 |
| 04MAY12-perc-065.d | LODV | ☑ | 148755 | 14875.5092 | 10.0000 |
| 04MAY12-perc-088.d | LODV | ☑ | 153604 | 15360.3929 | 10.0000 |
| 04MAY12-perc-024.d | MS_5 | ☑ | 129389 | 12938.8979 | 10.0000 |
| 04MAY12-perc-025.d | MS_5 | ☑ | 99068 | 9906.7834 | 10.0000 |
| 04MAY12-perc-037.d | MS_5 | ☑ | 130602 | 13060.1589 | 10.0000 |
| 04MAY12-perc-038.d | MS_5 | ☑ | 135881 | 13588.0962 | 10.0000 |
| 04MAY12-perc-058.d | MS_5 | ☑ | 137638 | 13763.7587 | 10.0000 |
| 04MAY12-perc-059.d | MS_5 | ☑ | 130306 | 13030.5854 | 10.0000 |
| 04MAY12-perc-071.d | MS_5 | ☑ | 127944 | 12794.3806 | 10.0000 |
| 04MAY12-perc-072.d | MS_5 | ☑ | 149059 | 14905.9329 | 10.0000 |

**Instrument A5; Agilent 6410 Mass Spectrometer with Agilent 1200 series Binary SL HPLC.**

# TestAmerica Inc.
## Perchlorate Analysis by LC/MS/MS; Method 8321 / 6850 / 331 / DOD Handbook

**Batch Data Path** D:\Masshunter\A5-data\Perc_2RNM102911VE 09\04MAY2012\QuantResults\04MAY2012-Perchlorate.batch.xml

### Analysis Information

| | |
|---|---|
| **Acquisition Date - Time** | 5/4/2012 16:45 |
| **Analyst** | lores |
| **Data File** | 04MAY12-perc-016 d |
| **Acquisition Method** | PercMRM_2.m |
| **Sample Name** | LC6850IC_00001 12LCMS0073, 5 0ng/mL |
| **Sample Identification** | ICV |
| **Sample Information** | IC-Pak Anion HR 75x4.6mm T=40°C iso 45 55 Coll=30 frag=130 src=1750v neb=45 gas T=350 fl=12 |
| **Sample Type** | QC |
| **Sample Position** | P2-C2 |
| **Exp. Concentration** | 5.00 |
| **Injection Volume** | 50 |

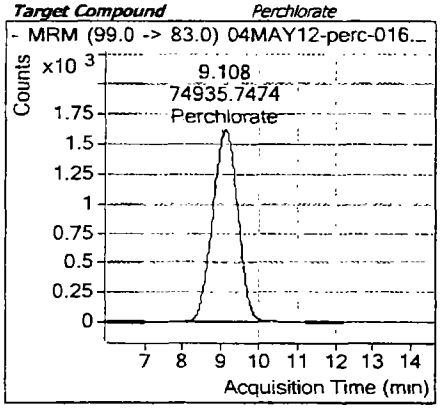
### Quantitation Results

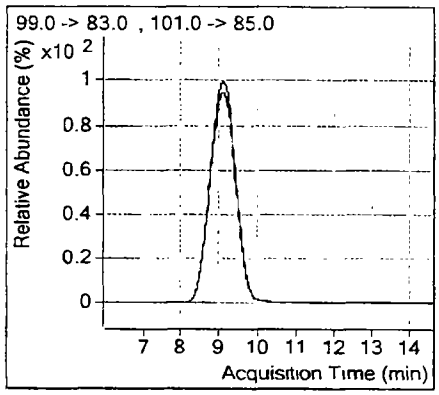
| Name | Type | RT | Area | Precursor | Product | Final Conc. | Injection Conc. | Dilution |
|---|---|---|---|---|---|---|---|---|
| Perchlorate | Target | 9 108 | 74936 | 99 | 83 | **5.02496** | **5.02496** | 1 |
| Perchlorate-(35Cl18O4) | ISTD | 9 101 | 180367 | 107 | 89 | | | 1 |
| | | | | | | | **0.5 % Deviation** | |

| Qualifier Ion | Area | Precursor | Product | Ratio | Min | Max | |
|---|---|---|---|---|---|---|---|
| Perchlorate | 24551 | 101 | 85 | 3.05 | 2.30 | 3 80 | In Control |
| Perchlorate-(35Cl18O4) | 57011 | 109 | 91 | 3 16 | 2 30 | 3.80 | In Control |

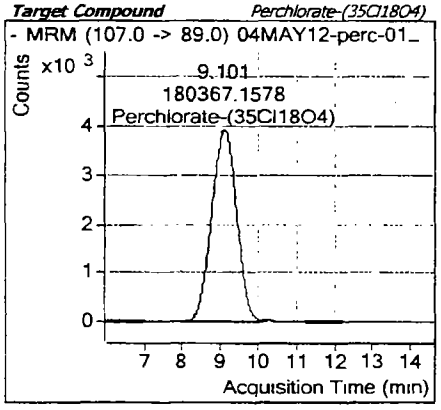
### Compound Graphics

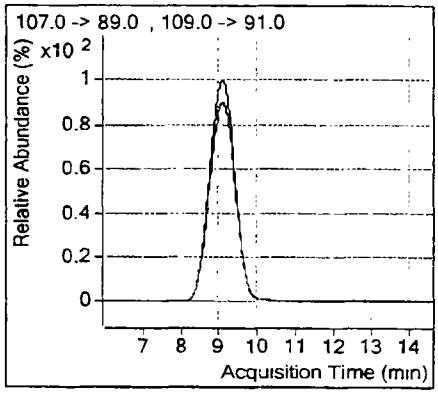
*Target Compound* *Perchlorate*




*Target Compound* *Perchlorate-(35Cl18O4)*




DF 5-7-12
MB 5/9/12

# QQQ Checktune Report

| | | | |
|---|---|---|---|
| **Instrument Name** | Instrument 1 | **MS Model** | G6410A |
| **Tune Date & Time** | 2012-05-07 12:03 | | |
| **Data Path** | D:\MassHunter\Tune\QQQ\atunes.TUNE.XML | | |
| **Ion Source** | ESI | | |
| **Ionization Mode** | ESI | | |

**Negative Results**

***Analyzer: MS1*** ***Polarity: Negative*** ***Width: Unit***

| m/z | m/z Exp | Tolerance | Delta | Result | FWHM | FWHM Exp | Tolerance | Delta | Result | Abundance | Minimum1 | Result |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 112.99 | 112.99 | 0.10 | 0.00 | Pass | 0.68 | 0.70 | 0.10 | -0.02 | Pass | 85823 | 0 | Pass |
| 301.98 | 302.00 | 0.10 | -0.02 | Pass | 0.71 | 0.70 | 0.10 | 0.01 | Pass | 369624 | 0 | Pass |
| 601.93 | 601.98 | 0.10 | -0.05 | Pass | 0.68 | 0.70 | 0.10 | -0.02 | Pass | 878232 | 0 | Pass |
| 1033.92 | 1033.99 | 0.10 | -0.07 | Pass | 0.70 | 0.70 | 0.10 | 0.00 | Pass | 435063 | 0 | Pass |
| 1333.90 | 1333.97 | 0.10 | -0.07 | Pass | 0.70 | 0.70 | 0.10 | 0.00 | Pass | 698780 | 0 | Pass |
| 1633.89 | 1633.95 | 0.10 | -0.06 | Pass | 0.73 | 0.70 | 0.10 | 0.03 | Pass | 606348 | 0 | Pass |

***Analyzer: MS2*** ***Polarity: Negative*** ***Width: Unit***

| m/z | m/z Exp | Tolerance | Delta | Result | FWHM | FWHM Exp | Tolerance | Delta | Result | Abundance | Minimum1 | Result |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 113.01 | 112.99 | 0.10 | 0.02 | Pass | 0.68 | 0.70 | 0.10 | -0.02 | Pass | 257229 | 0 | Pass |
| 302.01 | 302.00 | 0.10 | 0.01 | Pass | 0.68 | 0.70 | 0.10 | -0.02 | Pass | 299611 | 0 | Pass |
| 602.00 | 601.98 | 0.10 | 0.02 | Pass | 0.67 | 0.70 | 0.10 | -0.03 | Pass | 405527 | 0 | Pass |
| 1034.01 | 1033.99 | 0.10 | 0.02 | Pass | 0.71 | 0.70 | 0.10 | 0.01 | Pass | 205063 | 0 | Pass |
| 1333.98 | 1333.97 | 0.10 | 0.01 | Pass | 0.69 | 0.70 | 0.10 | -0.01 | Pass | 536959 | 0 | Pass |
| 1633.95 | 1633.95 | 0.10 | 0.00 | Pass | 0.68 | 0.70 | 0.10 | -0.02 | Pass | 387382 | 0 | Pass |

***Analyzer: MS1*** ***Polarity: Negative*** ***Width: Wide***

| m/z | m/z Exp | Tolerance | Delta | Result | FWHM | FWHM Exp | Tolerance | Delta | Result | Abundance | Minimum1 | Result |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 112.99 | 112.99 | 0.30 | 0.00 | Pass | 1.19 | 1.20 | 0.60 | -0.01 | Pass | 96529 | 0 | Pass |
| 301.93 | 302.00 | 0.30 | -0.07 | Pass | 1.29 | 1.20 | 0.60 | 0.09 | Pass | 512492 | 0 | Pass |
| 601.92 | 601.98 | 0.30 | -0.06 | Pass | 1.30 | 1.20 | 0.60 | 0.10 | Pass | 1325802 | 0 | Pass |
| 1033.86 | 1033.99 | 0.30 | -0.13 | Pass | 1.33 | 1.20 | 0.60 | 0.13 | Pass | 783960 | 0 | Pass |
| 1333.85 | 1333.97 | 0.30 | -0.12 | Pass | 1.32 | 1.20 | 0.60 | 0.12 | Pass | 1514499 | 0 | Pass |
| 1633.84 | 1633.95 | 0.30 | -0.11 | Pass | 1.25 | 1.20 | 0.60 | 0.05 | Pass | 1521112 | 0 | Pass |

# QQQ Checktune Report

***Analyzer: MS2*** ***Polarity: Negative*** ***Width: Wide***

| m/z | m/z Exp | Tolerance | Delta | Result | FWHM | FWHM Exp | Tolerance | Delta | Result | Abundance | Minimum1 | Result |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 113.04 | 112.99 | 0.30 | 0.05 | [redacted] | 1.15 | 1.20 | 0.60 | -0.05 | [redacted] | 330523 | 0 | [redacted] |
| 302.01 | 302.00 | 0.30 | 0.01 | [redacted] | 1.23 | 1.20 | 0.60 | 0.03 | [redacted] | 411587 | 0 | [redacted] |
| 601.95 | 601.98 | 0.30 | -0.03 | [redacted] | 1.24 | 1.20 | 0.60 | 0.04 | [redacted] | 622743 | 0 | [redacted] |
| 1033.96 | 1033.99 | 0.30 | -0.03 | [redacted] | 1.26 | 1.20 | 0.60 | 0.06 | [redacted] | 377628 | 0 | [redacted] |
| 1333.91 | 1333.97 | 0.30 | -0.06 | [redacted] | 1.27 | 1.20 | 0.60 | 0.07 | [redacted] | 964886 | 0 | [redacted] |
| 1633.92 | 1633.95 | 0.30 | -0.03 | [redacted] | 1.25 | 1.20 | 0.60 | 0.05 | [redacted] | 767525 | 0 | [redacted] |

***Analyzer: MS1*** ***Polarity: Negative*** ***Width: Widest***

| m/z | m/z Exp | Tolerance | Delta | Result | FWHM | FWHM Exp | Tolerance | Delta | Result | Abundance | Minimum1 | Result |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 112.90 | 112.99 | 0.50 | -0.09 | [redacted] | 2.76 | 2.50 | 1.25 | 0.26 | [redacted] | 115158 | 0 | [redacted] |
| 301.88 | 302.00 | 0.50 | -0.12 | [redacted] | 2.84 | 2.50 | 1.25 | 0.34 | [redacted] | 743221 | 0 | [redacted] |
| 601.87 | 601.98 | 0.50 | -0.11 | [redacted] | 2.90 | 2.50 | 1.25 | 0.40 | [redacted] | 1670203 | 0 | [redacted] |
| 1033.88 | 1033.99 | 0.50 | -0.11 | [redacted] | 2.82 | 2.50 | 1.25 | 0.32 | [redacted] | 1134757 | 0 | [redacted] |
| 1333.91 | 1333.97 | 0.50 | -0.06 | [redacted] | 2.71 | 2.50 | 1.25 | 0.21 | [redacted] | 2363493 | 0 | [redacted] |
| 1633.95 | 1633.95 | 0.50 | 0.00 | [redacted] | 2.58 | 2.50 | 1.25 | 0.08 | [redacted] | 2594574 | 0 | [redacted] |

***Analyzer: MS2*** ***Polarity: Negative*** ***Width: Widest***

| m/z | m/z Exp | Tolerance | Delta | Result | FWHM | FWHM Exp | Tolerance | Delta | Result | Abundance | Minimum1 | Result |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 112.91 | 112.99 | 0.50 | -0.08 | [redacted] | 2.53 | 2.50 | 1.25 | 0.03 | [redacted] | 429984 | 0 | [redacted] |
| 301.94 | 302.00 | 0.50 | -0.06 | [redacted] | 2.56 | 2.50 | 1.25 | 0.06 | [redacted] | 615163 | 0 | [redacted] |
| 601.92 | 601.98 | 0.50 | -0.06 | [redacted] | 2.53 | 2.50 | 1.25 | 0.03 | [redacted] | 1062354 | 0 | [redacted] |
| 1034.02 | 1033.99 | 0.50 | 0.03 | [redacted] | 2.40 | 2.50 | 1.25 | -0.10 | [redacted] | 789048 | 0 | [redacted] |
| 1333.94 | 1333.97 | 0.50 | -0.03 | [redacted] | 2.51 | 2.50 | 1.25 | 0.01 | [redacted] | 1982928 | 0 | [redacted] |
| 1634.02 | 1633.95 | 0.50 | 0.07 | [redacted] | 2.42 | 2.50 | 1.25 | -0.08 | [redacted] | 1830234 | 0 | [redacted] |

*' NOTE 1) Actual abundances depend on many factors and are instrument specific*
*To change the minimum abundance, edit the values on the "Options" sheet*



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# TestAmerica Inc.
# Perchlorate Analysis by LC/MS/MS; Method 8321 / 6850 / 331 / DOD Handbook

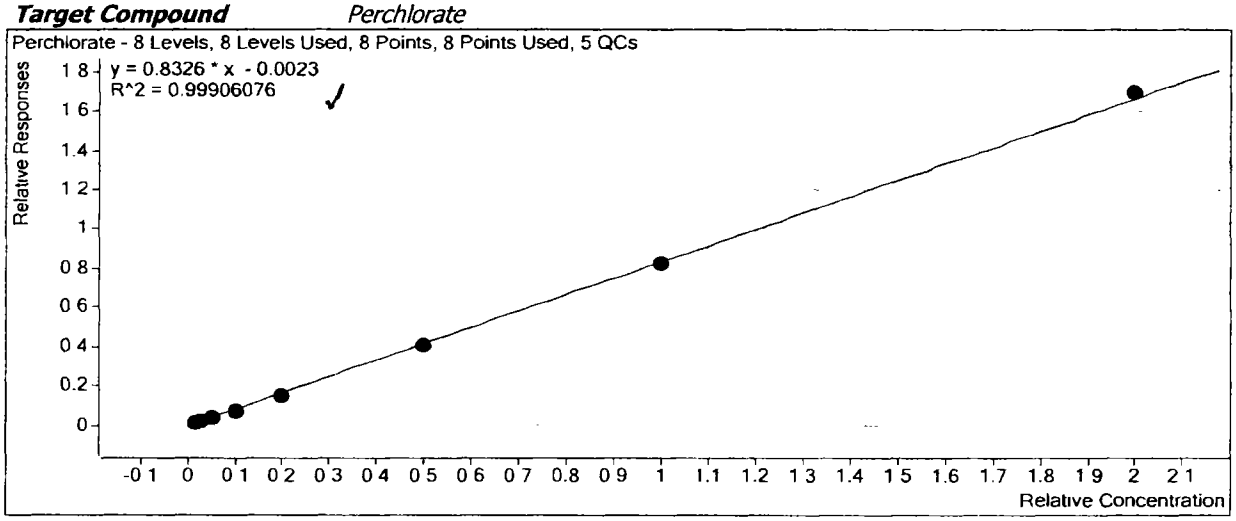
**Batch Info**

| | | | |
|---|---|---|---|
| **Batch Data Path** | D:\Masshunter\A5-data\Perc_2RNM102911VE 09\07MAY2012\QuantResults\07May2012-Perchlorate.batch.xml | | |
| **Analysis Time** | 5/7/2012 8:03 PM | **Analyst Name** | lores |
| **Report Time** | 5/7/2012 8:05 PM | **Reporter Name** | lores |
| **Last Calib Update** | 5/7/2012 8:03 PM | **Batch State** | Processed |

**Calibration Info** Linear Fit, 1/x weighting, and origin ignored.

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***Target Compound*** *Perchlorate*



# TestAmerica Inc.
# Perchlorate Analysis by LC/MS/MS; Method 8321 / 6850 / 331 / DOD Handbook

| ***Target Compound*** | *Perchlorate* | | | | |
|---|---|---|---|---|---|
| **Calibration STD** | **Level** | **Enabled** | **Response** | **RF** | **Exp Conc** |
| 07MAY12-perc-007.d | 1 | ☑ | 2870 | 0.7690 | 0.1500 |
| 07MAY12-perc-008.d | 2 | ☑ | 4418 | 0.7972 | 0.3000 |
| 07MAY12-perc-009.d | 3 | ☑ | 7172 | 0.7719 | 0.5000 |
| 07MAY12-perc-010.d | 4 | ☑ | 13861 | 0.7692 | 1.0000 |
| 07MAY12-perc-011.d | 5 | ☑ | 25984 | 0.7491 | 2.0000 |
| 07MAY12-perc-012.d | 6 | ☑ | 65542 | 0.8086 | 5.0000 |
| 07MAY12-perc-013.d | 7 | ☑ | 125418 | 0.8217 | 10.0000 |
| 07MAY12-perc-014.d | 8 | ☑ | 225026 | 0.8487 | 20.0000 |
| 07MAY12-perc-018.d | CCV3 | ☑ | 6209 | 0.7628 | 0.5000 |
| 07MAY12-perc-023.d | CCV3 | ☑ | 6870 | 0.8028 | 0.5000 |
| 07MAY12-perc-022.d | CCV5 | ☑ | 24513 | 0.7857 | 2.0000 |
| 07MAY12-perc-017.d | CCV6 | ☑ | 64534 | 0.7918 | 5.0000 |
| 07MAY12-perc-016.d | ICV | ☑ | 79332 | 0.8357 | 5.0000 |
| ***Target Compound*** | *Perchlorate-(35Cl18O4)* | | | | |
| **Calibration STD** | **Level** | **Enabled** | **Response** | **RF** | **Exp Conc** |
| 07MAY12-perc-007.d | 1 | ☑ | 248858 | 24885.7968 | 10.0000 |
| 07MAY12-perc-008.d | 2 | ☑ | 184723 | 18472.3355 | 10.0000 |
| 07MAY12-perc-009.d | 3 | ☑ | 185820 | 18582.0136 | 10.0000 |
| 07MAY12-perc-010.d | 4 | ☑ | 180202 | 18020.2263 | 10.0000 |
| 07MAY12-perc-011.d | 5 | ☑ | 173439 | 17343.9007 | 10.0000 |
| 07MAY12-perc-012.d | 6 | ☑ | 162110 | 16210.9851 | 10.0000 |
| 07MAY12-perc-013.d | 7 | ☑ | 152630 | 15263.0298 | 10.0000 |
| 07MAY12-perc-014.d | 8 | ☑ | 132575 | 13257.5304 | 10.0000 |
| 07MAY12-perc-018.d | CCV3 | ☑ | 162787 | 16278.7485 | 10.0000 |
| 07MAY12-perc-023.d | CCV3 | ☑ | 171159 | 17115.9280 | 10.0000 |
| 07MAY12-perc-022.d | CCV5 | ☑ | 155997 | 15599.7127 | 10.0000 |
| 07MAY12-perc-017.d | CCV6 | ☑ | 163016 | 16301.5839 | 10.0000 |
| 07MAY12-perc-016.d | ICV | ☑ | 189867 | 18986.6752 | 10.0000 |

# CCAL Data

# TestAmerica Inc.
## Perchlorate Analysis by LC/MS/MS; Method 8321 / 6850 / 331 / DOD Handbook

**Batch Data Path** D:\Masshunter\A5-data\Perc_2RNM102911VE 09\04MAY2012\QuantResults\04MAY2012-Perchlorate.batch.xml

**Analysis Information**

| | |
|---|---|
| **Acquisition Date - Time** | 5/4/2012 17:01 |
| **Analyst** | lores |
| **Data File** | 04MAY12-perc-017 d |
| **Acquisition Method** | PercMRM_2 m |
| **Sample Name** | LC6850L6_00001 12LCMS0069, 5 0ng/mL |
| **Sample Identification** | CCV 6 |
| **Sample Information** | IC-Pak Anion HR 75x4 6mm T=40°C iso 45:55 Coll=30 frag=130 src=1750v neb=45 gas T=350 fl=12 |
| **Sample Type** | QC |
| **Sample Position** | P2-C7 |
| **Exp. Concentration** | 5.00 |
| **Injection Volume** | 50 |

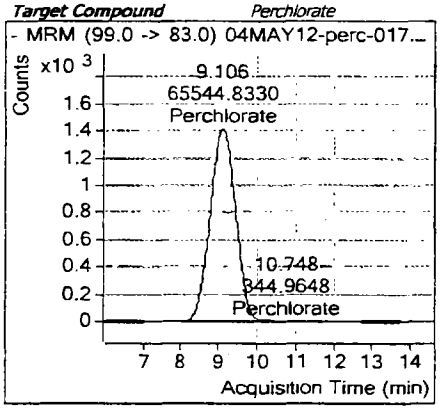
**Quantitation Results**

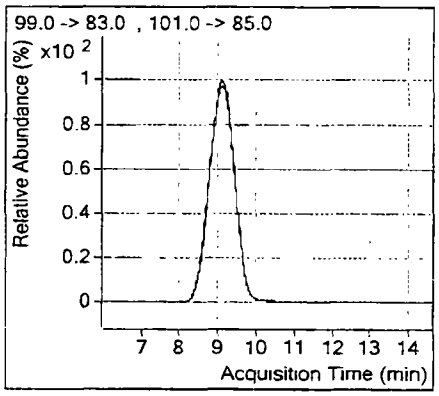
| Name | Type | RT | Area | Precursor | Product | Final Conc. | Injection Conc. | Dilution |
|---|---|---|---|---|---|---|---|---|
| Perchlorate | Target | 9 106 | 65545 | 99 | 83 | **4.84164** | **4.84164** | 1 |
| Perchlorate-(35Cl18O4) | ISTD | 9 098 | 163763 | 107 | 89 | | | 1 |
| | | | | | | | **-3.2 % Deviation** | |

| Qualifier Ion | Area | Precursor | Product | Ratio | Min | Max | |
|---|---|---|---|---|---|---|---|
| Perchlorate | 21979 | 101 | 85 | 2 98 | 2 30 | 3 80 | In Control |
| Perchlorate-(35Cl18O4) | 50482 | 109 | 91 | 3.24 | 2.30 | 3.80 | In Control |

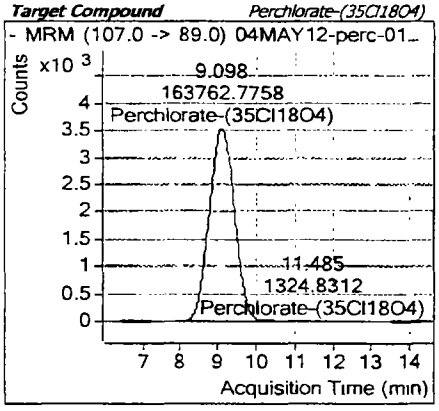
**Compound Graphics**

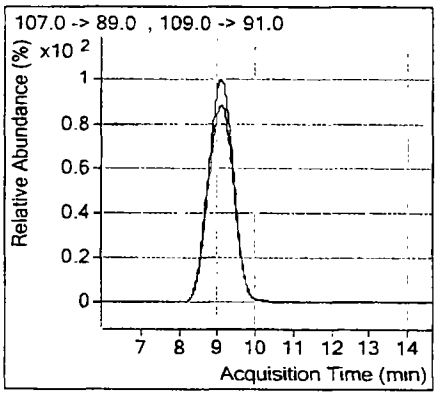
*Target Compound* *Perchlorate*




*Target Compound* *Perchlorate-(35Cl18O4)*




Dev. 5-7-12
MR 5/9/12

**Batch Data Path** D:\Masshunter\A5-data\Perc_2RNM102911VE 09\04MAY2012\QuantResults\04MAY2012-Perchlorate.batch.xml

**Analysis Information**

| | |
|---|---|
| **Acquisition Date - Time** | 5/4/2012 17:17 |
| **Analyst** | lores |
| **Data File** | 04MAY12-perc-018.d |
| **Acquisition Method** | PercMRM_2 m |
| **Sample Name** | LC6850L3_00001 12LCMS0066, 0 50ng/mL |
| **Sample Identification** | MRL |
| **Sample Information** | IC-Pak Anion HR 75x4 6mm T=40°C iso 45 55 Coll=30 frag=130 src=1750v neb=45 gas T=350 fl=12 |
| **Sample Type** | QC |
| **Sample Position** | P2-C4 |
| **Exp. Concentration** | 0.50 |
| **Injection Volume** | 50 |

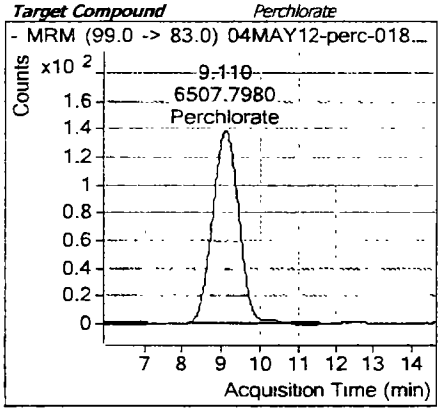
**Quantitation Results**

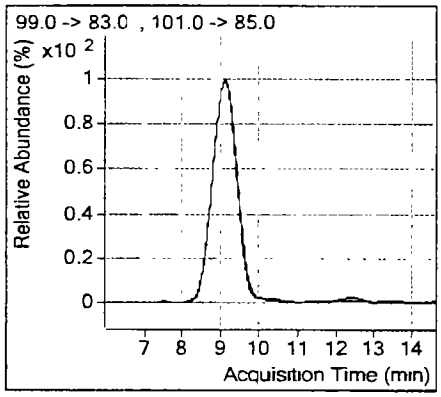
| Name | Type | RT | Area | Precursor | Product | Final Conc. | Injection Conc. | Dilution |
|---|---|---|---|---|---|---|---|---|
| Perchlorate | Target | 9.110 | 6508 | 99 | 83 | **0.50219** | **0.50219** | 1 |
| Perchlorate-(35Cl18O4) | ISTD | 9 103 | 162869 | 107 | 89 | | | 1 |
| | | | | | | | **0.4 % Deviation** | |

| Qualifier Ion | Area | Precursor | Product | Ratio | Min | Max | |
|---|---|---|---|---|---|---|---|
| Perchlorate | 2131 | 101 | 85 | 3.05 | 2 30 | 3.80 | In Control |
| Perchlorate-(35Cl18O4) | 51593 | 109 | 91 | 3 16 | 2 30 | 3 80 | In Control |

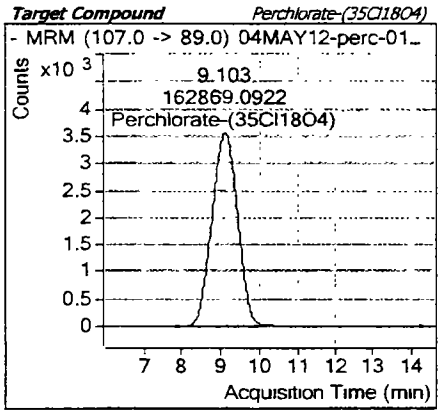
**Compound Graphics**

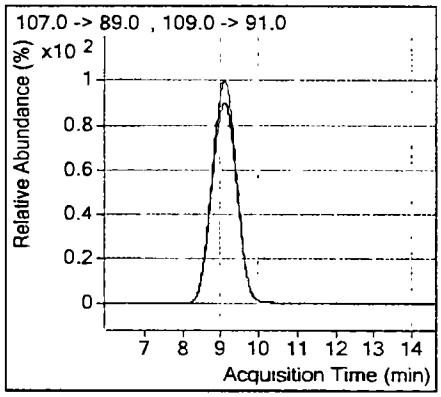
*Target Compound* *Perchlorate*




*Target Compound* *Perchlorate-(35Cl18O4)*




dg. 5-7-12
mr 5/9/12

# TestAmerica Inc.
## Perchlorate Analysis by LC/MS/MS; Method 8321 / 6850 / 331 / DOD Handbook

| | |
|---|---|
| **Batch Data Path** | D:\Masshunter\A5-data\Perc_2RNM102911VE 09\04MAY2012\QuantResults\04MAY2012-Perchlorate.batch.xml |

**Analysis Information**

| | |
|---|---|
| **Acquisition Date - Time** | 5/4/2012 17:33 |
| **Analyst** | lores |
| **Data File** | 04MAY12-perc-019.d |
| **Acquisition Method** | PercMRM_2 m |
| **Sample Name** | LC6850L1_00001 12LCMS0064, 0 15ng/mL |
| **Sample Identification** | LODV |
| **Sample Information** | IC-Pak Anion HR 75x4 6mm T=40°C iso 45 55 Coll=30 frag=130 src=1750v neb=45 gas T=350 fl=12 |
| **Sample Type** | QC |
| **Sample Position** | P2-C3 |
| **Exp. Concentration** | 0 15 |
| **Injection Volume** | 50 |

**Quantitation Results**

| Name | Type | RT | Area | Precursor | Product | Final Conc. | Injection Conc. | Dilution |
|---|---|---|---|---|---|---|---|---|
| Perchlorate | Target | 9 111 | 1905 | 99 | 83 | **0.17206** | **0.17206** | 1 |
| Perchlorate-(35Cl18O4) | ISTD | 9 099 | 151824 | 107 | 89 | | | 1 |
| | | | | | | | **14.7 % Deviation** | |

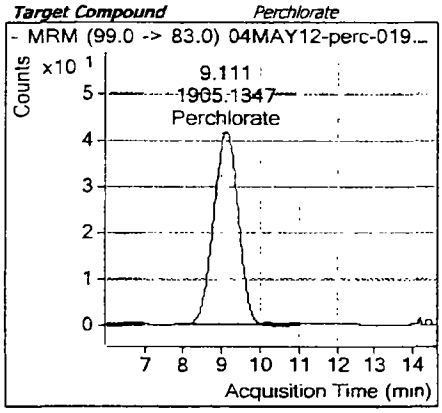
| Qualifier Ion | Area | Precursor | Product | Ratio | Min | Max | |
|---|---|---|---|---|---|---|---|
| Perchlorate | 673 | 101 | 85 | 2.83 | 2 30 | 3 80 | In Control |
| Perchlorate-(35Cl18O4) | 46645 | 109 | 91 | 3 25 | 2 30 | 3 80 | In Control |

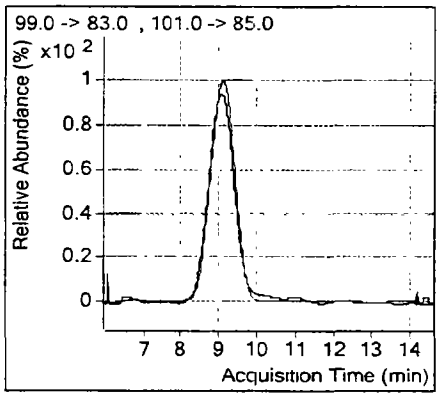
**Compound Graphics**

DEL 5-7-12

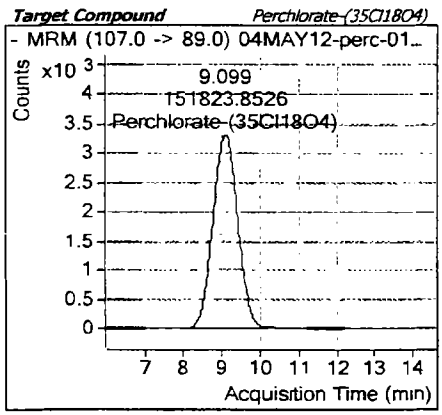
mr 5/9/12

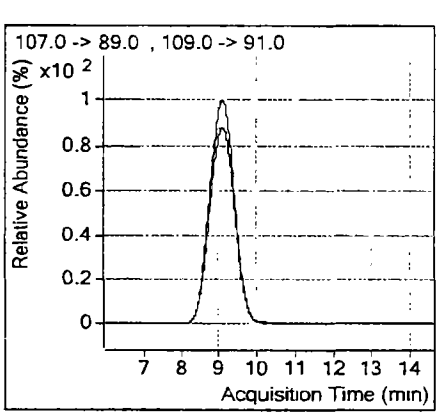
*Target Compound* *Perchlorate*




*Target Compound* *Perchlorate-(35Cl18O4)*



**Batch Data Path** D:\Masshunter\A5-data\Perc_2RNM102911VE 09\04MAY2012\QuantResults\04MAY2012-Perchlorate.batch.xml

**Analysis Information**

| | |
|---|---|
| **Acquisition Date - Time** | 5/4/2012 20:32 |
| **Analyst** | lores |
| **Data File** | 04MAY12-perc-030 d |
| **Acquisition Method** | PercMRM_2.m |
| **Sample Name** | LC6850L5_00001 12LCMS0068, 2.0ng/mL |
| **Sample Identification** | CCV 5 |
| **Sample Information** | IC-Pak Anion HR 75x4 6mm T=40*C iso 45 55 Coll=30 frag=130 src=1750v neb=45 gas T=350 fl=12 |
| **Sample Type** | QC |
| **Sample Position** | P2-C6 |
| **Exp Concentration** | 2 00 |
| **Injection Volume** | 50 |

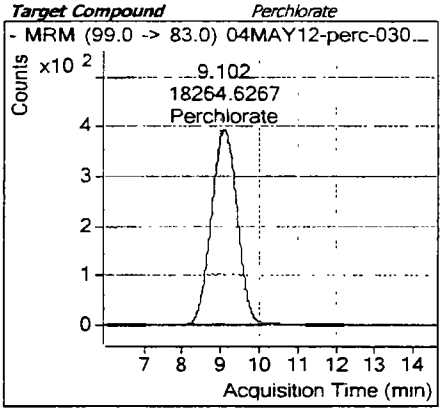
**Quantitation Results**

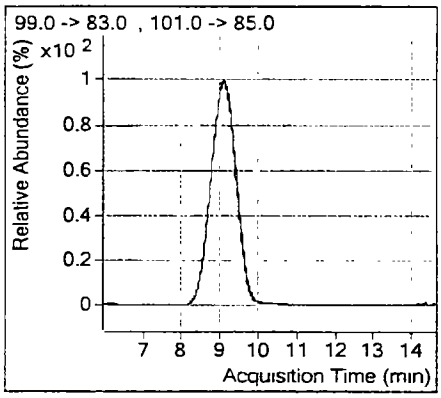
| Name | Type | RT | Area | Precursor | Product | Final Conc. | Injection Conc. | Dilution |
|---|---|---|---|---|---|---|---|---|
| Perchlorate | Target | 9.102 | 18265 | 99 | 83 | 1:97282 | 1.97282 | 1 |
| Perchlorate-(35Cl18O4) | ISTD | 9.102 | 112705 | 107 | 89 | | | 1 |
| | | | | | | | -1.4 % Deviation | |

| Qualifier Ion | Area | Precursor | Product | Ratio | Min | Max | |
|---|---|---|---|---|---|---|---|
| Perchlorate | 6165 | 101 | 85 | 2 96 | 2 30 | 3 80 | In Control |
| Perchlorate-(35Cl18O4) | 35594 | 109 | 91 | 3 17 | 2 30 | 3 80 | In Control |

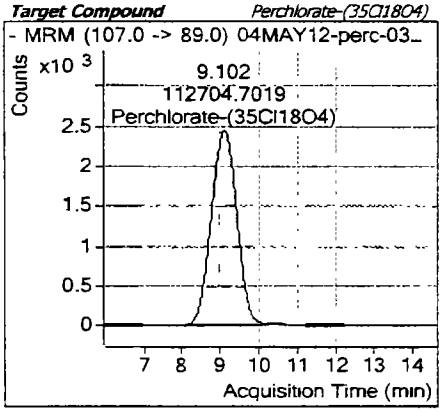
**Compound Graphics**

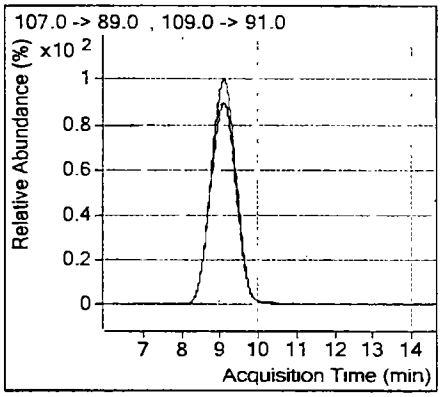
*Target Compound* *Perchlorate*




*Target Compound* *Perchlorate-(35Cl18O4)*




Dtl. 5-7-12

M 5/9/12

**Batch Data Path** D:\Masshunter\A5-data\Perc_2RNM102911VE 09\04MAY2012\QuantResults\04MAY2012-Perchlorate.batch.xml

**Analysis Information**

| | |
|---|---|
| **Acquisition Date - Time** | 5/4/2012 20:48 |
| **Analyst** | lores |
| **Data File** | 04MAY12-perc-031.d |
| **Acquisition Method** | PercMRM_2.m |
| **Sample Name** | LC6850L3_00001 12LCMS0066, 0.50ng/mL |
| **Sample Identification** | MRL |
| **Sample Information** | IC-Pak Anion HR 75x4 6mm T=40°C iso 45 55 Coll=30 frag=130 src=1750v neb=45 gas T=350 fl=12 |
| **Sample Type** | QC |
| **Sample Position** | P2-C4 |
| **Exp. Concentration** | 0 50 |
| **Injection Volume** | 50 |

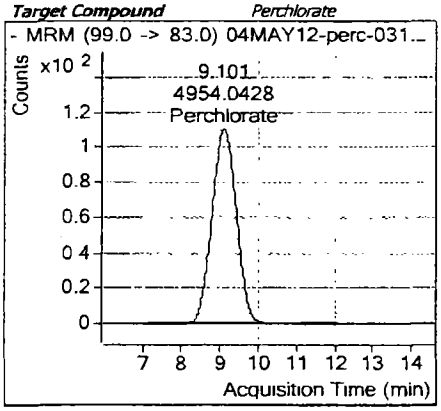
**Quantitation Results**

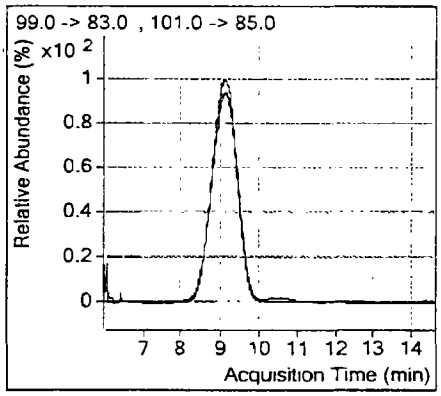
| Name | Type | RT | Area | Precursor | Product | Final Conc. | Injection Conc. | Dilution |
|---|---|---|---|---|---|---|---|---|
| Perchlorate | Target | 9 101 | 4954 | 99 | 83 | **0.47962** | **0.47962** | 1 |
| Perchlorate-(35Cl18O4) | ISTD | 9 102 | 130082 | 107 | 89 | | | 1 |
| | | | | | | | **-4.1 % Deviation** | |

| Qualifier Ion | Area | Precursor | Product | Ratio | Min | Max | |
|---|---|---|---|---|---|---|---|
| Perchlorate | 1638 | 101 | 85 | 3 02 | 2.30 | 3.80 | In Control |
| Perchlorate-(35Cl18O4) | 41212 | 109 | 91 | 3 16 | 2.30 | 3 80 | In Control |

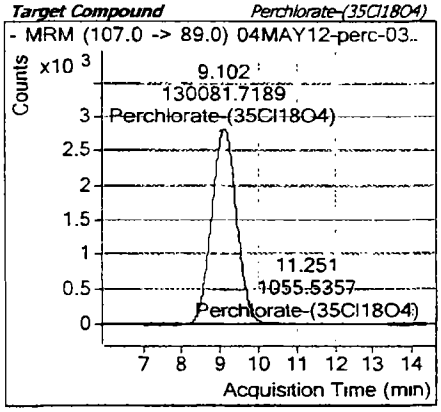
**Compound Graphics**

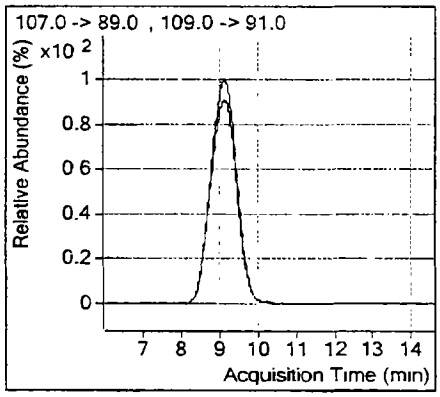
*Target Compound* *Perchlorate*




*Target Compound* *Perchlorate-(35Cl18O4)*




Da 5-7-12

mr 5/9/12

# TestAmerica Inc.
## Perchlorate Analysis by LC/MS/MS; Method 8321 / 6850 / 331 / DOD Handbook

| | |
|---|---|
| **Batch Data Path** | D.\Masshunter\A5-data\Perc_2RNM102911VE 09\04MAY2012\QuantResults\04MAY2012-Perchlorate.batch.xml |

**Analysis Information**

| | |
|---|---|
| **Acquisition Date - Time** | 5/4/2012 21:04 |
| **Analyst** | lores |
| **Data File** | 04MAY12-perc-032 d |
| **Acquisition Method** | PercMRM_2.m |
| **Sample Name** | LC6850L9_00001 Blank + IS |
| **Sample Identification** | Blank + IS |
| **Sample Information** | IC-Pak Anion HR 75x4 6mm T=40°C iso 45 55 Coll=30 frag=130 src=1750v neb=45 gas T=350 fl=12 |
| **Sample Type** | Sample |
| **Sample Position** | P2-C1 |
| **Exp. Concentration** | |
| **Injection Volume** | 50 |

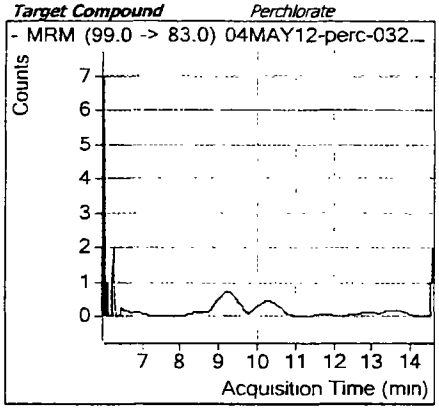
**Quantitation Results**

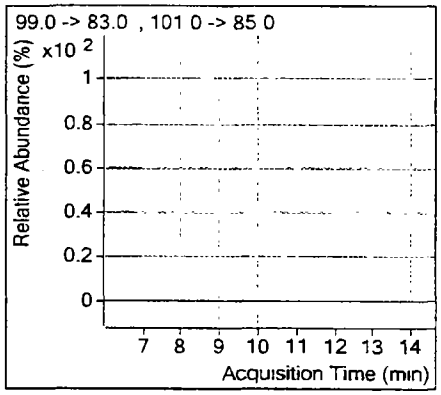
| Name | Type | RT | Area | Precursor | Product | Final Conc. | Injection Conc. | Dilution |
|---|---|---|---|---|---|---|---|---|
| Perchlorate-(35Cl18O4) | ISTD | 9.101 | 144489 | 107 | 89 | Perchlorate = ND | | 1 |

| Qualifier Ion | Area | Precursor | Product | Ratio | Min | Max | |
|---|---|---|---|---|---|---|---|
| Perchlorate-(35Cl18O4) | 44574 | 109 | 91 | 3.24 | 2.30 | 3.80 | In Control |

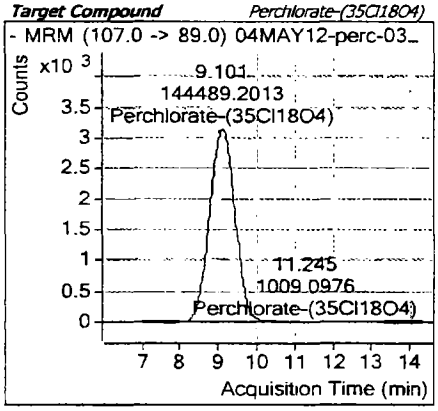
**Compound Graphics**

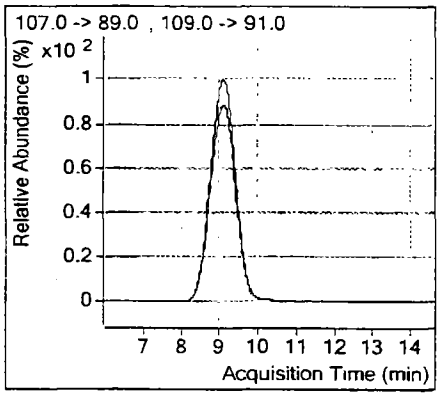
*Target Compound* *Perchlorate*




*Target Compound* *Perchlorate-(35Cl18O4)*




DG 5-7-12

MR 5/9/12

# TestAmerica Inc.
## Perchlorate Analysis by LC/MS/MS; Method 8321 / 6850 / 331 / DOD Handbook

**Batch Data Path** D:\Masshunter\A5-data\Perc_2RNM102911VE 09\07MAY2012\QuantResults\07May2012-Perchlorate.batch.xml

**Analysis Information**

| | |
|---|---|
| **Acquisition Date - Time** | 5/7/2012 16:35 |
| **Analyst** | lores |
| **Data File** | 07MAY12-perc-017 d |
| **Acquisition Method** | PercMRM_2 m |
| **Sample Name** | LC6850L6_00001 12LCMS0069, 5 0ng/mL |
| **Sample Identification** | CCV 6 |
| **Sample Information** | IC-Pak Anion HR 75x4 6mm T=40°C iso 45 55 Coll=30 frag=130 src=1750v neb=45 gas T=350 fl=12 |
| **Sample Type** | QC |
| **Sample Position** | P2-C7 |
| **Exp. Concentration** | 5 00 |
| **Injection Volume** | 50 |

**Quantitation Results**

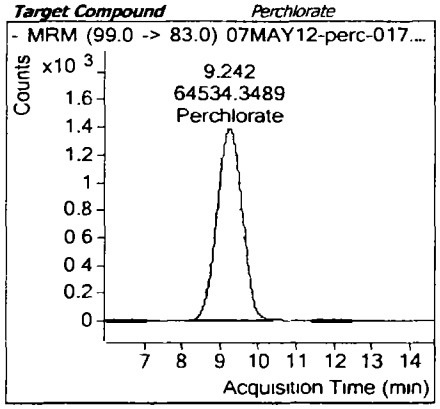
| Name | Type | RT | Area | Precursor | Product | Final Conc. | Injection Conc. | Dilution |
|---|---|---|---|---|---|---|---|---|
| Perchlorate | Target | 9 242 | 64534 | 99 | 83 | **4.78299** | **4.78299** | 1 |
| Perchlorate-(35Cl18O4) | ISTD | 9 232 | 163016 | 107 | 89 | | | 1 |
| | | | | | | | **-4.3 %Deviation** | |

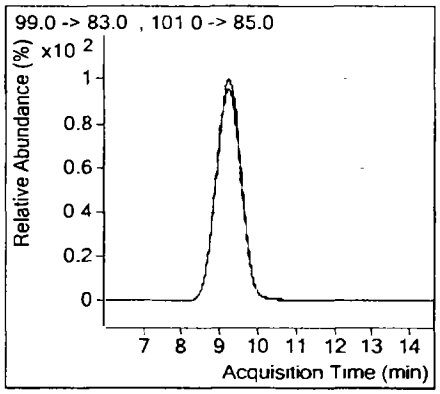
| Qualifier Ion | Area | Precursor | Product | Ratio | Min | Max | |
|---|---|---|---|---|---|---|---|
| Perchlorate | 21403 | 101 | 85 | 3 02 | 2 30 | 3 80 | In Control |
| Perchlorate-(35Cl18O4) | 51290 | 109 | 91 | 3 18 | 2 30 | 3 80 | In Control |

**Compound Graphics**

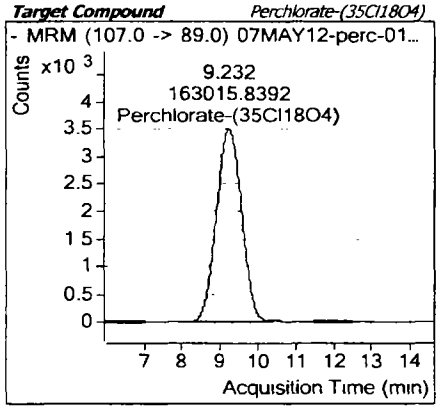
m 5/9/12

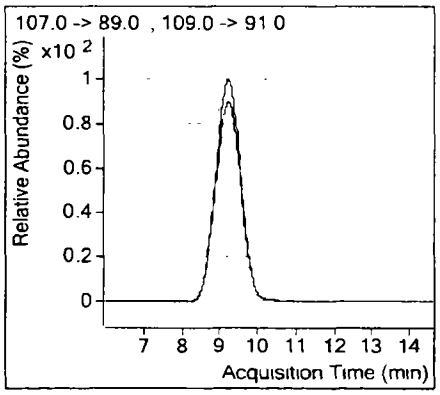
***Target Compound*** *Perchlorate*




***Target Compound*** *Perchlorate-(35Cl18O4)*



# TestAmerica Inc.
## Perchlorate Analysis by LC/MS/MS; Method 8321 / 6850 / 331 / DOD Handbook

**Batch Data Path** D:\Masshunter\A5-data\Perc_2RNM102911VE 09\07MAY2012\QuantResults\07May2012-Perchlorate batch xml

### Analysis Information

| | |
|---|---|
| **Acquisition Date - Time** | 5/7/2012 16.52 |
| **Analyst** | lores |
| **Data File** | 07MAY12-perc-018 d |
| **Acquisition Method** | PercMRM_2.m |
| **Sample Name** | LC6850L3_00001 12LCMS0066, 0 50ng/mL |
| **Sample Identification** | MRL |
| **Sample Information** | IC-Pak Anion HR 75x4 6mm T=40°C iso 45 55 Coll=30 frag=130 src=1750v neb=45 gas T=350 fl=12 |
| **Sample Type** | QC |
| **Sample Position** | P2-C4 |
| **Exp. Concentration** | 0 50 |
| **Injection Volume** | 50 |

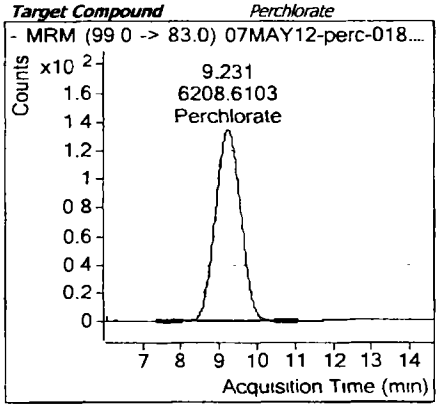
### Quantitation Results

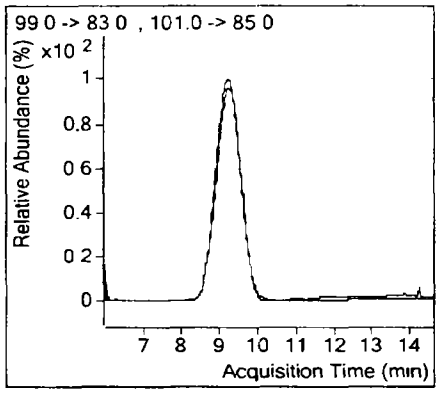
| Name | Type | RT | Area | Precursor | Product | Final Conc. | Injection Conc. | Dilution |
|---|---|---|---|---|---|---|---|---|
| Perchlorate | Target | 9 231 | 6209 | 99 | 83 | **0.48630** | **0.48630** | 1 |
| Perchlorate-(35Cl18O4) | ISTD | 9 234 | 162787 | 107 | 89 | | | 1 |
| | | | | | | | **-2.7 %Deviation** | |

| Qualifier Ion | Area | Precursor | Product | Ratio | Min | Max | |
|---|---|---|---|---|---|---|---|
| Perchlorate | 2069 | 101 | 85 | 3 00 | 2 30 | 3 80 | In Control |
| Perchlorate-(35Cl18O4) | 51998 | 109 | 91 | 3 13 | 2 30 | 3 80 | In Control |

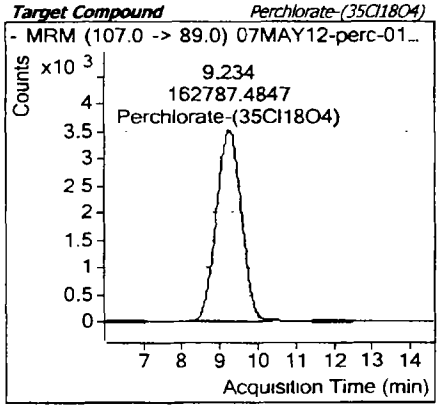
### Compound Graphics

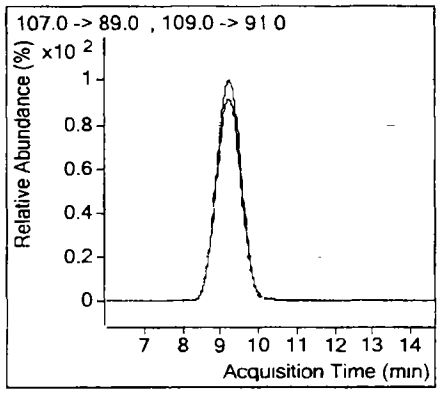
*Target Compound* *Perchlorate*




*Target Compound* *Perchlorate-(35Cl18O4)*




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# TestAmerica Inc.
## Perchlorate Analysis by LC/MS/MS; Method 8321 / 6850 / 331 / DOD Handbook

**Batch Data Path** D:\Masshunter\A5-data\Perc_2RNM102911VE 09\07MAY2012\QuantResults\07May2012-Perchlorate batch.xml

### Analysis Information

| | |
|---|---|
| **Acquisition Date - Time** | 5/7/2012 17:57 |
| **Analyst** | lores |
| **Data File** | 07MAY12-perc-022 d |
| **Acquisition Method** | PercMRM_2 m |
| **Sample Name** | LC6850L5_00001 12LCMS0068, 2 0ng/mL |
| **Sample Identification** | CCV 5 |
| **Sample Information** | IC-Pak Anion HR 75x4 6mm T=40°C iso 45 55 Coll=30 frag=130 src=1750v neb=45 gas T=350 fl=12 |
| **Sample Type** | QC |
| **Sample Position** | P2-C6 |
| **Exp. Concentration** | 2 00 |
| **Injection Volume** | 50 |

### Quantitation Results

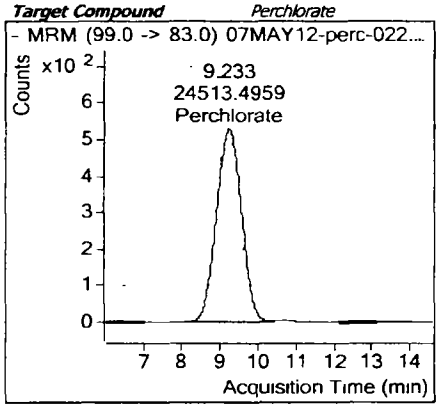
| Name | Type | RT | Area | Precursor | Product | Final Conc. | Injection Conc. | Dilution |
|---|---|---|---|---|---|---|---|---|
| Perchlorate | Target | 9 233 | 24513 | 99 | 83 | **1.91559** | **1.91559** | 1 |
| Perchlorate-(35Cl18O4) | ISTD | 9 220 | 155997 | 107 | 89 | | | 1 |
| | | | | | | | **-4.2 %Deviation** | |

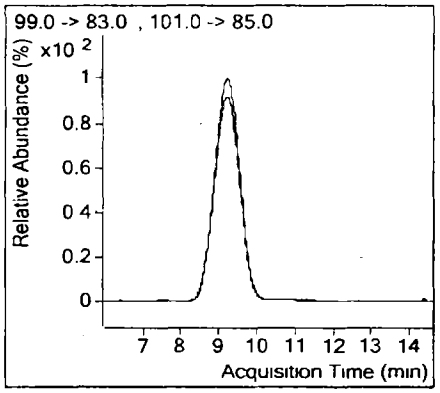
| Qualifier Ion | Area | Precursor | Product | Ratio | Min | Max | |
|---|---|---|---|---|---|---|---|
| Perchlorate | 8084 | 101 | 85 | 3 03 | 2 30 | 3 80 | In Control |
| Perchlorate-(35Cl18O4) | 48765 | 109 | 91 | 3 20 | 2 30 | 3 80 | In Control |

### Compound Graphics

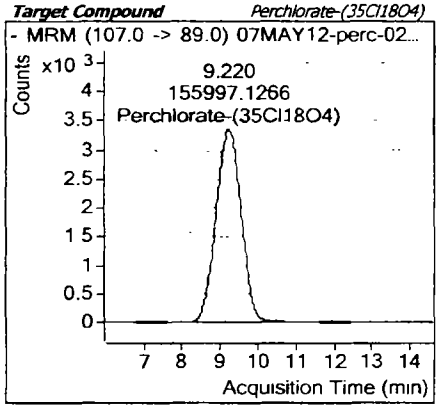
m2 5/9/12

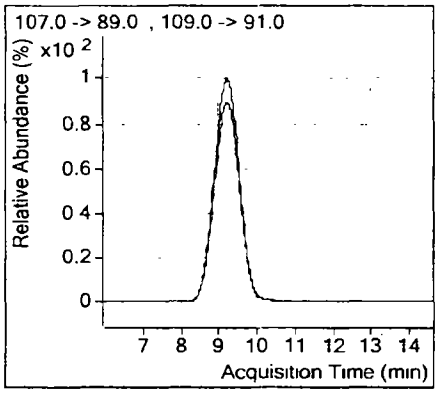
*Target Compound* *Perchlorate*




*Target Compound* *Perchlorate-(35Cl18O4)*



**Batch Data Path** D.\Masshunter\A5-data\Perc_2RNM102911VE 09\07MAY2012\QuantResults\07May2012-Perchlorate batch.xml

**Analysis Information**

| | |
|---|---|
| **Acquisition Date - Time** | 5/7/2012 18:13 |
| **Analyst** | lores |
| **Data File** | 07MAY12-perc-023 d |
| **Acquisition Method** | PercMRM_2 m |
| **Sample Name** | LC6850L3_00001 12LCMS0066, 0 50ng/mL |
| **Sample Identification** | MRL |
| **Sample Information** | IC-Pak Anion HR 75x4 6mm T=40°C iso 45 55 Coll=30 frag=130 src=1750v neb=45 gas T=350 fl=12 |
| **Sample Type** | QC |
| **Sample Position** | P2-C4 |
| **Exp. Concentration** | 0 50 |
| **Injection Volume** | 50 |

**Quantitation Results**

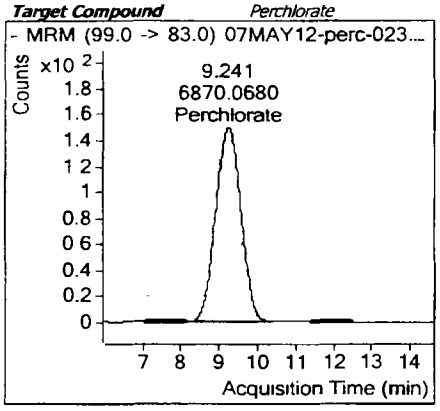
| Name | Type | RT | Area | Precursor | Product | Final Conc. | Injection Conc. | Dilution |
|---|---|---|---|---|---|---|---|---|
| Perchlorate | Target | 9 241 | 6870 | 99 | 83 | **0.51031** | **0.51031** | 1 |
| Perchlorate-(35Cl18O4) | ISTD | 9 220 | 171159 | 107 | 89 | | | 1 |
| | | | | | | | **2.1 %Deviation** | |

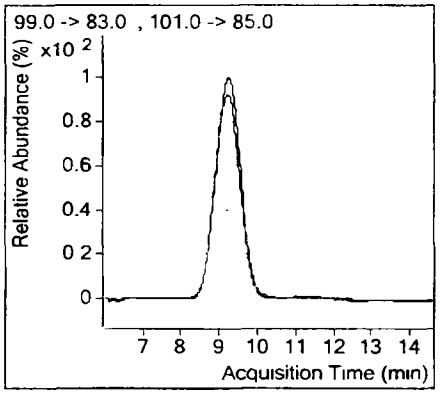
| Qualifier Ion | Area | Precursor | Product | Ratio | Min | Max | |
|---|---|---|---|---|---|---|---|
| Perchlorate | 2219 | 101 | 85 | 3 10 | 2 30 | 3 80 | In Control |
| Perchlorate-(35Cl18O4) | 52678 | 109 | 91 | 3 25 | 2 30 | 3 80 | In Control |

**Compound Graphics**

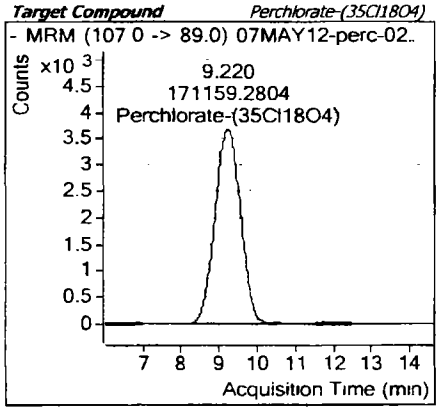
m 5/9/12

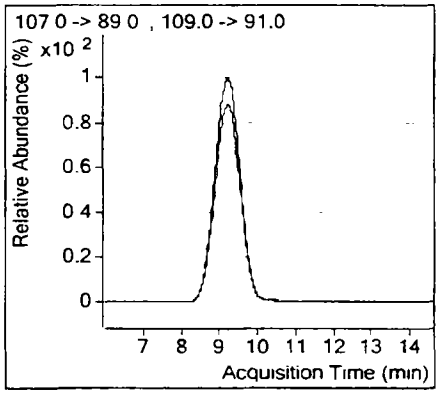
*Target Compound* *Perchlorate*




*Target Compound* *Perchlorate-(35Cl18O4)*



# TestAmerica Inc.
## Perchlorate Analysis by LC/MS/MS; Method 8321 / 6850 / 331 / DOD Handbook

| | |
|---|---|
| **Batch Data Path** | D:\Masshunter\A5-data\Perc_2RNM102911VE 09\07MAY2012\QuantResults\07May2012-Perchlorate.batch xml |

### Analysis Information

| | |
|---|---|
| **Acquisition Date - Time** | 5/7/2012 18.29 |
| **Analyst** | lores |
| **Data File** | 07MAY12-perc-024 d |
| **Acquisition Method** | PercMRM_2 m |
| **Sample Name** | LC6850L9_00001 Blank + IS |
| **Sample Identification** | Blank + IS |
| **Sample Information** | IC-Pak Anion HR 75x4 6mm T=40°C iso 45 55 Coll=30 frag=130 src=1750v neb=45 gas T=350 fl=12 |
| **Sample Type** | Sample |
| **Sample Position** | P2-C1 |
| **Exp. Concentration** | |
| **Injection Volume** | 50 |

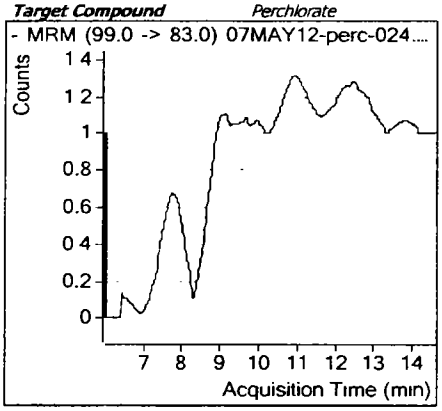
### Quantitation Results

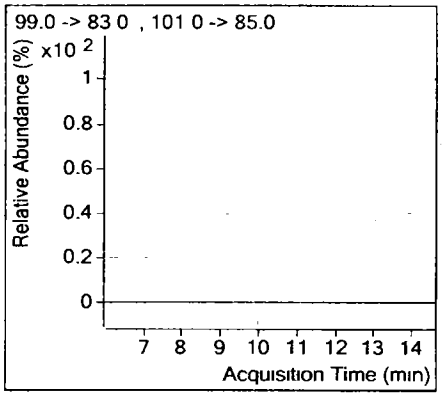
| Name | Type | RT | Area | Precursor | Product | Final Conc. | Injection Conc. | Dilution |
|---|---|---|---|---|---|---|---|---|
| Perchlorate-(35Cl18O4) | ISTD | 9 224 | 190362 | 107 | 89 | Perchlorate = ND | | 1 |

| Qualifier Ion | Area | Precursor | Product | Ratio | Min | Max | |
|---|---|---|---|---|---|---|---|
| Perchlorate-(35Cl18O4) | 59064 | 109 | 91 | 3 22 | 2 30 | 3 80 | In Control |

### Compound Graphics

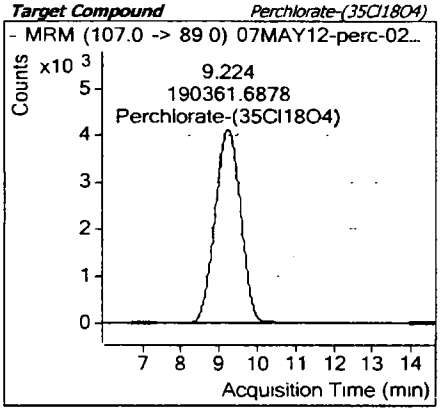
*Target Compound* *Perchlorate*

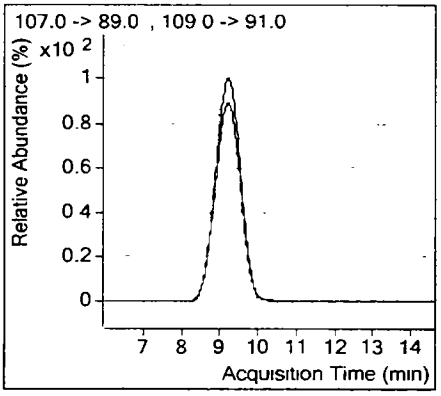



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*Target Compound* *Perchlorate-(35Cl18O4)*



# METALS

COVER PAGE
METALS

Lab Name: TestAmerica Canton Job Number: 240-10598-1

SDG No.:

Project: MSA Groundwater Sampling

| Client Sample ID | Lab Sample ID |
|---|---|
| MT-MW04S | 240-10598-2 |
| MT-MW06S | 240-10598-3 |

Comments:

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

ICV Source: MTMSICVW_00014 Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW_00039

| Analyte | ICV 240-42093/5 04/28/2012 08:30 | | | | CCV 240-42093/46 04/28/2012 12:29 | | | | CCV 240-42093/58 04/28/2012 13:41 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Antimony** | 82.3 | | 80.0 | 103 | 99.8 | | 100 | 100 | 97.1 | | 100 | 97 |
| **Arsenic** | 81.8 | | 80.0 | 102 | 102 | | 100 | 102 | 99.4 | | 100 | 99 |
| **Barium** | 81.1 | | 80.0 | 101 | 102 | | 100 | 102 | 98.3 | | 100 | 98 |
| **Beryllium** | 79.4 | | 80.0 | 99 | 98.1 | | 100 | 98 | 101 | | 100 | 101 |
| **Cadmium** | 82.4 | | 80.0 | 103 | 103 | | 100 | 103 | 99.8 | | 100 | 100 |
| **Chromium** | 80.8 | | 80.0 | 101 | 102 | | 100 | 102 | 99.1 | | 100 | 99 |
| **Cobalt** | 81.5 | | 80.0 | 102 | 103 | | 100 | 103 | 99.1 | | 100 | 99 |
| **Copper** | 83.5 | | 80.0 | 104 | 106 | | 100 | 106 | 102 | | 100 | 102 |
| **Lead** | 83.1 | | 80.0 | 104 | 104 | | 100 | 104 | 102 | | 100 | 102 |
| **Molybdenum** | 82.6 | | 80.0 | 103 | 104 | | 100 | 104 | 101 | | 100 | 101 |
| **Nickel** | 82.9 | | 80.0 | 104 | 103 | | 100 | 103 | 99.1 | | 100 | 99 |
| **Selenium** | 82.2 | | 80.0 | 103 | 103 | | 100 | 103 | 101 | | 100 | 101 |
| **Silver** | 83.9 | | 80.0 | 105 | 103 | | 100 | 103 | 101 | | 100 | 101 |
| **Thallium** | 81.6 | | 80.0 | 102 | 101 | | 100 | 101 | 100 | | 100 | 100 |
| **Tungsten** | 81.3 | | 80.0 | 102 | 102 | | 100 | 102 | 100 | | 100 | 100 |
| **Vanadium** | 80.6 | | 80.0 | 101 | 101 | | 100 | 101 | 98.3 | | 100 | 98 |
| **Zinc** | 83.5 | | 80.0 | 104 | 102 | | 100 | 102 | 100 | | 100 | 100 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

ICV Source: MTMSICVW_00014 Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW_00039

| Analyte | CCV 240-42093/70 04/28/2012 14:51 | | | | CCV 240-42093/134 04/28/2012 21:01 | | | | CCV 240-42093/146 04/28/2012 22:14 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Antimony** | 98.9 | | 100 | 99 | 100 | | 100 | 100 | 101 | | 100 | 101 |
| **Arsenic** | 102 | | 100 | 102 | 103 | | 100 | 103 | 103 | | 100 | 103 |
| **Barium** | 100 | | 100 | 100 | 101 | | 100 | 101 | 99.7 | | 100 | 100 |
| **Beryllium** | 102 | | 100 | 102 | 100 | | 100 | 100 | 104 | | 100 | 104 |
| **Cadmium** | 102 | | 100 | 102 | 102 | | 100 | 102 | 103 | | 100 | 103 |
| **Chromium** | 103 | | 100 | 103 | 102 | | 100 | 102 | 102 | | 100 | 102 |
| **Cobalt** | 103 | | 100 | 103 | 102 | | 100 | 102 | 101 | | 100 | 101 |
| **Copper** | 105 | | 100 | 105 | 104 | | 100 | 104 | 105 | | 100 | 105 |
| **Lead** | 105 | | 100 | 105 | 106 | | 100 | 106 | 105 | | 100 | 105 |
| **Molybdenum** | 104 | | 100 | 104 | 104 | | 100 | 104 | 105 | | 100 | 105 |
| **Nickel** | 104 | | 100 | 104 | 103 | | 100 | 103 | 103 | | 100 | 103 |
| **Selenium** | 105 | | 100 | 105 | 104 | | 100 | 104 | 106 | | 100 | 106 |
| **Silver** | 103 | | 100 | 103 | 104 | | 100 | 104 | 103 | | 100 | 103 |
| **Thallium** | 105 | | 100 | 105 | 104 | | 100 | 104 | 106 | | 100 | 106 |
| **Tungsten** | 103 | | 100 | 103 | 104 | | 100 | 104 | 105 | | 100 | 105 |
| **Vanadium** | 101 | | 100 | 101 | 102 | | 100 | 102 | 101 | | 100 | 101 |
| **Zinc** | 104 | | 100 | 104 | 103 | | 100 | 103 | 104 | | 100 | 104 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton  Job No.: 240-10598-1

SDG No.:

ICV Source: MTMSICVW_00014  Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW_00039

| Analyte | CCV 240-42093/158 04/28/2012 23:21 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Antimony** | 102 | | 100 | 102 | | | | | | | | |
| **Arsenic** | 102 | | 100 | 102 | | | | | | | | |
| **Barium** | 102 | | 100 | 102 | | | | | | | | |
| **Beryllium** | 102 | | 100 | 102 | | | | | | | | |
| **Cadmium** | 104 | | 100 | 104 | | | | | | | | |
| **Chromium** | 102 | | 100 | 102 | | | | | | | | |
| **Cobalt** | 101 | | 100 | 101 | | | | | | | | |
| **Copper** | 104 | | 100 | 104 | | | | | | | | |
| **Lead** | 105 | | 100 | 105 | | | | | | | | |
| **Molybdenum** | 104 | | 100 | 104 | | | | | | | | |
| **Nickel** | 103 | | 100 | 103 | | | | | | | | |
| **Selenium** | 101 | | 100 | 101 | | | | | | | | |
| **Silver** | 104 | | 100 | 104 | | | | | | | | |
| **Thallium** | 104 | | 100 | 104 | | | | | | | | |
| **Tungsten** | 104 | | 100 | 104 | | | | | | | | |
| **Vanadium** | 102 | | 100 | 102 | | | | | | | | |
| **Zinc** | 105 | | 100 | 105 | | | | | | | | |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton  Job No.: 240-10598-1

SDG No.:

ICV Source: MTHGICVW_00284  Concentration Units: ug/L

CCV Source: MTHGCALW_00185

| Analyte | ICV 240-41879/7-A 04/27/2012 17:54 | | | | CCVL 240-41879/10-A 04/27/2012 18:00 | | | | CCV 240-41879/12-A 04/27/2012 20:27 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Mercury** | 2.32 | | 2.50 | 93 | 5.11 | | 5.00 | 102 | 5.25 | | 5.00 | 105 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

ICV Source: MTHGICVW_00284 Concentration Units: ug/L

CCV Source: MTHGCALW_00185

| Analyte | CCV 240-41879/12-A 04/27/2012 20:52 | | | | CCV 240-41879/12-A 04/27/2012 21:17 | | | | CCV 240-41879/12-A 04/27/2012 21:42 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Mercury** | 5.17 | | 5.00 | 103 | 5.39 | | 5.00 | 108 | 5.22 | | 5.00 | 104 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

ICV Source: MTHGICVW_00284 Concentration Units: ug/L

CCV Source: MTHGCALW_00185

| Analyte | CCV 240-41879/12-A 04/27/2012 22:06 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Mercury** | 5.25 | | 5.00 | 105 | | | | | | | | |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton  Job No.: 240-10598-1

SDG No.:

ICV Source: MTHGICVW_00284  Concentration Units: ug/L

CCV Source: MTHGCALW_00185

| Analyte | ICV 240-41879/7-A 04/28/2012 10:19 | | | | CCVL 240-41879/10-A 04/28/2012 10:26 | | | | CCV 240-41879/12-A 04/28/2012 11:31 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Mercury** | 2.40 | | 2.50 | 96 | 5.07 | | 5.00 | 101 | 5.10 | | 5.00 | 102 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

ICV Source: MTHGICVW_00284 Concentration Units: ug/L

CCV Source: MTHGCALW_00185

| Analyte | CCV 240-41879/12-A 04/28/2012 11:55 | | | | CCV 240-41879/12-A 04/28/2012 12:20 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Mercury** | 5.03 | | 5.00 | 101 | 5.14 | | 5.00 | 103 | | | | |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Method: 6020 Instrument ID: I8

Lab Sample ID: CRI 240-42093/7 Concentration Units: ug/L

CRQL Check Standard Source: MTMSCRIW_00016

| Analyte | CRQL Check Standard | | | | |
|---|---|---|---|---|---|
| | True | Found | Qualifiers | %R(1) | Limits |
| Antimony | 2.00 | 2.07 | | 104 | 50-150 |
| Arsenic | 2.00 | 2.23 | J | 112 | 50-150 |
| Barium | 1.00 | 1.03 | J | 103 | 50-150 |
| Beryllium | 1.00 | 1.04 | | 104 | 50-150 |
| Cadmium | 0.500 | 0.551 | J | 110 | 50-150 |
| Chromium | 2.00 | 1.85 | J | 93 | 50-150 |
| Cobalt | 1.00 | 1.04 | | 104 | 50-150 |
| Copper | 2.00 | 2.47 | | 124 | 50-150 |
| Lead | 1.00 | 1.10 | | 110 | 50-150 |
| Molybdenum | 10.0 | 10.1 | | 101 | 50-150 |
| Nickel | 2.00 | 2.85 | | 143 | 50-150 |
| Selenium | 2.00 | 1.93 | J | 97 | 50-150 |
| Silver | 0.500 | 0.599 | J | 120 | 50-150 |
| Thallium | 1.00 | 1.25 | J | 125 | 50-150 |
| Vanadium | 5.00 | 5.04 | J | 101 | 50-150 |
| Tungsten | 10.0 | 9.61 | J | 96 | 50-150 |
| Zinc | 10.0 | 9.76 | J | 98 | 50-150 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Method: 7470A Instrument ID: H4

Lab Sample ID: CRA 240-41879/9-A Concentration Units: ug/L

CRQL Check Standard Source: MTHGCALW_00185

| Analyte | CRQL Check Standard | | | | |
|---|---|---|---|---|---|
| | True | Found | Qualifiers | %R(1) | Limits |
| Mercury | 0.200 | 0.193 | J | 96 | 50-150 |

Lab Sample ID: CRA 240-41879/9-A Concentration Units: ug/L

CRQL Check Standard Source: MTHGCALW_00185

| Analyte | CRQL Check Standard | | | | |
|---|---|---|---|---|---|
| | True | Found | Qualifiers | %R(1) | Limits |
| Mercury | 0.200 | 0.215 | | 107 | 50-150 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Concentration Units: ug/L

| Analyte | RL | ICB 240-42093/6 04/28/2012 08:37 | | CCB 240-42093/47 04/28/2012 12:36 | | CCB 240-42093/59 04/28/2012 13:48 | | CCB 240-42093/71 04/28/2012 14:58 | |
|---|---|---|---|---|---|---|---|---|---|
| | | Found | C | Found | C | Found | C | Found | C |
| **Antimony** | 2.0 | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U |
| **Arsenic** | 5.0 | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| **Barium** | 5.0 | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| **Beryllium** | 1.0 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| **Cadmium** | 1.0 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| **Chromium** | 2.0 | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U |
| **Cobalt** | 1.0 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| **Copper** | 2.0 | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U |
| **Lead** | 1.0 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| **Molybdenum** | 10 | 0.453 | J | 0.316 | J | 0.471 | J | 0.349 | J |
| **Nickel** | 2.0 | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U |
| **Selenium** | 5.0 | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| **Silver** | 1.0 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| **Thallium** | 2.0 | 0.475 | J | 0.375 | J | 0.758 | J | 0.491 | J |
| **Tungsten** | 10 | 0.681 | J | 10 | U | 0.610 | J | 0.401 | J |
| **Vanadium** | 20 | 20 | U | 20 | U | 20 | U | 20 | U |
| **Zinc** | 20 | 20 | U | 20 | U | 20 | U | 20 | U |

X use use use

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Concentration Units: ug/L

| Analyte | RL | CCB 240-42093/135 04/28/2012 21:08 | | CCB 240-42093/147 04/28/2012 22:21 | | CCB 240-42093/159 04/28/2012 23:28 | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Found | C | Found | C | Found | C | Found | C |
| **Antimony** | 2.0 | 2.0 | U | 0.159 | J | 2.0 | U | | |
| **Arsenic** | 5.0 | 5.0 | U | 5.0 | U | 5.0 | U | | |
| **Barium** | 5.0 | 5.0 | U | 5.0 | U | 5.0 | U | | |
| **Beryllium** | 1.0 | 1.0 | U | 1.0 | U | 1.0 | U | | |
| **Cadmium** | 1.0 | 1.0 | U | 1.0 | U | 1.0 | U | | |
| **Chromium** | 2.0 | 2.0 | U | 2.0 | U | 2.0 | U | | |
| **Cobalt** | 1.0 | 1.0 | U | 0.101 | J | 0.0930 | J | | |
| **Copper** | 2.0 | 2.0 | U | 2.0 | U | 2.0 | U | | |
| **Lead** | 1.0 | 1.0 | U | 1.0 | U | 1.0 | U | | |
| **Molybdenum** | 10 | 0.516 | J | 0.558 | J | 0.356 | J | | |
| **Nickel** | 2.0 | 2.0 | U | 2.0 | U | 2.0 | U | | |
| **Selenium** | 5.0 | 5.0 | U | 5.0 | U | 5.0 | U | | |
| **Silver** | 1.0 | 1.0 | U | 1.0 | U | 1.0 | U | | |
| **Thallium** | 2.0 | 0.459 | J | 0.899 | J | 0.470 | J | | |
| **Tungsten** | 10 | 0.456 | J | 0.790 | J | 0.392 | J | | |
| **Vanadium** | 20 | 20 | U | 20 | U | 20 | U | | |
| **Zinc** | 20 | 20 | U | 20 | U | 20 | U | | |

USE USE USE

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Concentration Units: ug/L

| Analyte | RL | ICB 240-41879/8-A 04/27/2012 17:55 | | CCB 240-41879/11-A 04/27/2012 20:29 | | CCB 240-41879/11-A 04/27/2012 20:54 | | CCB 240-41879/11-A 04/27/2012 21:19 | |
|---|---|---|---|---|---|---|---|---|---|
| | | Found | C | Found | C | Found | C | Found | C |
| **Mercury** | 0.20 | 0.20 | U | 0.20 | U | 0.20 | U | 0.20 | U |

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Concentration Units: ug/L

| Analyte | RL | CCB 240-41879/11-A 04/27/2012 21:43 | | CCB 240-41879/11-A 04/27/2012 22:08 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Found | C | Found | C | Found | C | Found | C |
| **Mercury** | 0.20 | 0.20 | U | 0.20 | U | | | | |

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Concentration Units: ug/L

| Analyte | RL | ICB 240-41879/8-A 04/28/2012 10:22 | | CCB 240-41879/11-A 04/28/2012 11:33 | | CCB 240-41879/11-A 04/28/2012 11:59 | | CCB 240-41879/11-A 04/28/2012 12:22 | |
|---|---|---|---|---|---|---|---|---|---|
| | | Found | C | Found | C | Found | C | Found | C |
| **Mercury** | 0.20 | 0.20 | U | 0.20 | U | 0.20 | U | 0.20 | U |

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton  Job No.: 240-10598-1

SDG No.:

Concentration Units: ug/L  Lab Sample ID: MB 240-41803/1-A

Instrument Code: I8  Batch No.: 42093

| CAS No. | Analyte | Concentration | C | Q | Method |
|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 2.0 | U | | 6020 |
| 7440-38-2 | Arsenic | 5.0 | U | | 6020 |
| 7440-39-3 | Barium | 1.67 | J | | 6020 |
| 7440-41-7 | Beryllium | 1.0 | U | | 6020 |
| 7440-43-9 | Cadmium | 1.0 | U | | 6020 |
| 7440-47-3 | Chromium | 2.0 | U | | 6020 |
| 7440-48-4 | Cobalt | 1.0 | U | | 6020 |
| 7440-50-8 | Copper | 1.10 | J | | 6020 |
| 7439-92-1 | Lead | 0.268 | J | | 6020 |
| 7439-98-7 | Molybdenum | 10 | U | | 6020 |
| 7440-02-0 | Nickel | 2.0 | U | | 6020 |
| 7782-49-2 | Selenium | 5.0 | U | | 6020 |
| 7440-22-4 | Silver | 0.0910 | J | | 6020 |
| 7440-28-0 | Thallium | 2.0 | U | | 6020 |
| 7440-62-2 | Vanadium | 20 | U | | 6020 |
| 7440-33-7 | Tungsten | 10 | U | | 6020 |
| 7440-66-6 | Zinc | 13.7 | J | | 6020 |

MT-MW043 Total

3-IN
METHOD BLANK
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton  Job No.: 240-10598-1

SDG No.:

Concentration Units: ug/L  Lab Sample ID: MB 240-41805/1-A

Instrument Code: I8  Batch No.: 42093

| CAS No. | Analyte | Concentration | C | Q | Method |
|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 2.0 | U | | 6020 |
| 7440-38-2 | Arsenic | 5.0 | U | | 6020 |
| 7440-39-3 | Barium | 2.18 | J | | 6020 |
| 7440-41-7 | Beryllium | 1.0 | U | | 6020 |
| 7440-43-9 | Cadmium | 1.0 | U | | 6020 |
| 7440-47-3 | Chromium | 2.0 | U | | 6020 |
| 7440-48-4 | Cobalt | 1.0 | U | | 6020 |
| 7440-50-8 | Copper | 1.32 | J | | 6020 |
| 7439-92-1 | Lead | ~~0.197~~ | J | | 6020 |
| 7439-98-7 | Molybdenum | 10 | U | | 6020 |
| 7440-02-0 | Nickel | 2.0 | U | | 6020 |
| 7782-49-2 | Selenium | 5.0 | U | | 6020 |
| 7440-22-4 | Silver | 1.0 | U | | 6020 |
| 7440-28-0 | Thallium | 2.0 | U | | 6020 |
| 7440-62-2 | Vanadium | 20 | U | | 6020 |
| 7440-33-7 | Tungsten | 10 | U | | 6020 |
| 7440-66-6 | Zinc | 11.7 | J | | 6020 |

MT-MW045 Dissolved

MT-MW015 Total and dissolved

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 240-41755/1-A

Instrument Code: H4 Batch No.: 42025

| CAS No. | Analyte | Concentration | C | Q | Method |
|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.20 | U | | 7470A |

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 240-41812/1-A

Instrument Code: H4 Batch No.: 42155

| CAS No. | Analyte | Concentration | C | Q | Method |
|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.20 | U | | 7470A |

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton  Job No.: 240-10598-1

SDG No.:

Lab Sample ID: ICSA 240-42093/9  Instrument ID: I8

Lab File ID: I8042812A.csv  ICS Source: MTMSICSAW_00014

Concentration Units: ug/L

| Analyte | True Solution A | Found Solution A | Percent Recovery |
|---|---|---|---|
| **Antimony** | | **0.170** | |
| **Arsenic** | | **0.431** | |
| **Barium** | | **0.184** | |
| **Beryllium** | | **0.0370** | |
| **Cadmium** | | **-0.527** | |
| **Chromium** | | **0.373** | |
| **Cobalt** | | **0.0960** | |
| **Copper** | | **0.485** | |
| **Lead** | | **0.0670** | |
| **Molybdenum** | **1000** | **1042** | **104** |
| **Nickel** | | **0.710** | |
| **Selenium** | | **-0.199** | |
| **Silver** | | **0.0400** | |
| **Thallium** | | **0.0950** | |
| **Tungsten** | | **0.145** | |
| **Vanadium** | | **0.0690** | |
| **Zinc** | | **4.99** | |
| *Aluminum* | *50000* | *51080* | *102* |
| *Boron* | | *0.169* | |
| *Calcium* | *50000* | *51270* | *103* |
| *Iron* | *50000* | *52480* | *105* |
| *Magnesium* | *50000* | *51630* | *103* |
| *Manganese* | | *0.552* | |
| *Potassium* | *50000* | *51090* | *102* |
| *Sodium* | *50000* | *51920* | *104* |
| *Strontium* | | *0.338* | |
| *Tin* | | *0.0850* | |
| *Titanium* | *1000* | *1073* | *107* |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton  Job No.: 240-10598-1

SDG No.:

Lab Sample ID: ICSAB 240-42093/10  Instrument ID: I8

Lab File ID: I8042812A.csv  ICS Source: MTMSICSABW_00014

Concentration Units: ug/L

| Analyte | True Solution AB | Found Solution AB | Percent Recovery |
|---|---|---|---|
| **Antimony** | **100** | **102** | **102** |
| **Arsenic** | **100** | **102** | **102** |
| **Barium** | **100** | **104** | **104** |
| **Beryllium** | **100** | **93.8** | **94** |
| **Cadmium** | **100** | **102** | **102** |
| **Chromium** | **100** | **110** | **110** |
| **Cobalt** | **100** | **103** | **103** |
| **Copper** | **100** | **103** | **103** |
| **Lead** | **100** | **110** | **110** |
| **Molybdenum** | **1100** | **1163** | **106** |
| **Nickel** | **100** | **107** | **107** |
| **Selenium** | **100** | **105** | **105** |
| **Silver** | **100** | **104** | **104** |
| **Thallium** | **100** | **108** | **108** |
| **Tungsten** | **100** | **103** | **103** |
| **Vanadium** | **100** | **103** | **103** |
| **Zinc** | **100** | **106** | **106** |
| *Aluminum* | *50000* | *50810* | *102* |
| *Boron* | *100* | *90.9* | *91* |
| *Calcium* | *50000* | *51580* | *103* |
| *Iron* | *50000* | *52740* | *105* |
| *Magnesium* | *50000* | *51780* | *104* |
| *Manganese* | *100* | *105* | *105* |
| *Potassium* | *50000* | *50640* | *101* |
| *Sodium* | *50000* | *51680* | *103* |
| *Strontium* | *100* | *97.6* | *98* |
| *Tin* | *100* | *101* | *101* |
| *Titanium* | *1100* | *1153* | *105* |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton  Job No.: 240-10598-1

SDG No.:

Lab Sample ID: ICSA 240-42093/120  Instrument ID: I8

Lab File ID: I8042812A.csv  ICS Source: MTMSICSAW_00014

Concentration Units: ug/L

| Analyte | True Solution A | Found Solution A | Found Percent Recovery |
|---|---|---|---|
| **Antimony** | | **0.160** | |
| **Arsenic** | | **0.491** | |
| **Barium** | | **0.180** | |
| **Beryllium** | | **0.0750** | |
| **Cadmium** | | **-0.469** | |
| **Chromium** | | **0.328** | |
| **Cobalt** | | **0.128** | |
| **Copper** | | **0.498** | |
| **Lead** | | **0.0770** | |
| **Molybdenum** | **1000** | **1047** | **105** |
| **Nickel** | | **0.720** | |
| **Selenium** | | **0.0050** | |
| **Silver** | | **0.0490** | |
| **Thallium** | | **0.335** | |
| **Tungsten** | | **0.115** | |
| **Vanadium** | | **0.248** | |
| **Zinc** | | **5.46** | |
| *Aluminum* | *50000* | *52880* | *106* |
| *Boron* | | *0.472* | |
| *Calcium* | *50000* | *51610* | *103* |
| *Iron* | *50000* | *51840* | *104* |
| *Magnesium* | *50000* | *52500* | *105* |
| *Manganese* | | *0.585* | |
| *Potassium* | *50000* | *51220* | *102* |
| *Sodium* | *50000* | *53550* | *107* |
| *Strontium* | | *0.412* | |
| *Tin* | | *0.294* | |
| *Titanium* | *1000* | *1072* | *107* |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton  Job No.: 240-10598-1

SDG No.:

Lab Sample ID: ICSAB 240-42093/121  Instrument ID: I8

Lab File ID: I8042812A.csv  ICS Source: MTMSICSABW_00014

Concentration Units: ug/L

| Analyte | True Solution AB | Found Solution AB | Percent Recovery |
|---|---|---|---|
| **Antimony** | **100** | **101** | **101** |
| **Arsenic** | **100** | **103** | **103** |
| **Barium** | **100** | **104** | **104** |
| **Beryllium** | **100** | **102** | **102** |
| **Cadmium** | **100** | **101** | **101** |
| **Chromium** | **100** | **109** | **109** |
| **Cobalt** | **100** | **103** | **103** |
| **Copper** | **100** | **105** | **105** |
| **Lead** | **100** | **111** | **111** |
| **Molybdenum** | **1100** | **1161** | **106** |
| **Nickel** | **100** | **107** | **107** |
| **Selenium** | **100** | **104** | **104** |
| **Silver** | **100** | **102** | **102** |
| **Thallium** | **100** | **111** | **111** |
| **Tungsten** | **100** | **104** | **104** |
| **Vanadium** | **100** | **103** | **103** |
| **Zinc** | **100** | **108** | **108** |
| *Aluminum* | *50000* | *52390* | *105* |
| *Boron* | *100* | *97.0* | *97* |
| *Calcium* | *50000* | *51700* | *103* |
| *Iron* | *50000* | *51680* | *103* |
| *Magnesium* | *50000* | *52600* | *105* |
| *Manganese* | *100* | *109* | *109* |
| *Potassium* | *50000* | *50320* | *101* |
| *Sodium* | *50000* | *53210* | *106* |
| *Strontium* | *100* | *98.0* | *98* |
| *Tin* | *100* | *99.8* | *100* |
| *Titanium* | *1100* | *1183* | *108* |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: _____ Lab ID: 240-10570-D-11-C MS

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.: _____

Matrix: Water Concentration Units: ug/L

% Solids: _____

| Analyte | SSR | C | Sample Result (SR) | C | Spike Added (SA) | %R | Control Limit %R | Q | Method |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 1.11 | | 0.20 | U | 1.00 | 111 | 69-134 | | 7470A |

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS - TOTAL RECOVERABLE

Client ID: _____ Lab ID: 240-10621-AL-1-B MS

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.: _____

Matrix: Water Concentration Units: ug/L

% Solids: _____

| Analyte | SSR | C | Sample Result (SR) | C | Spike Added (SA) | %R | Control Limit %R | Q | Method |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 98.1 | | 0.16 | J | 100 | 98 | 44-153 | | 6020 |
| Arsenic | 1010 | | 12 | | 1000 | 100 | 82-123 | | 6020 |
| Barium | 1130 | | 100 | | 1000 | 102 | 45-144 | | 6020 |
| Beryllium | 962 | | 1.0 | U | 1000 | 96 | 77-124 | | 6020 |
| Cadmium | 988 | | 1.0 | U | 1000 | 99 | 78-117 | | 6020 |
| Chromium | 1010 | | 2.0 | U | 1000 | 101 | 72-110 | | 6020 |
| Cobalt | 999 | | 2.2 | | 1000 | 100 | 67-114 | | 6020 |
| Copper | 985 | | 2.0 | U | 1000 | 98 | 60-123 | | 6020 |
| Lead | 1100 | | 1.0 | U | 1000 | 110 | 73-115 | | 6020 |
| Molybdenum | 107 | | 5.1 | J | 100 | 102 | 80-110 | | 6020 |
| Nickel | 994 | | 2.7 | | 1000 | 99 | 72-111 | | 6020 |
| Selenium | 999 | | 5.0 | U | 1000 | 100 | 72-148 | | 6020 |
| Silver | 99.3 | | 1.0 | U | 100 | 99 | 10-139 | | 6020 |
| Thallium | 264 | | 0.77 | J | 250 | 105 | 69-117 | | 6020 |
| Vanadium | 1010 | | 0.46 | J | 1000 | 100 | 70-112 | | 6020 |
| Tungsten | 101 | | 0.56 | J | 100 | 100 | 43-133 | | 6020 |
| Zinc | 982 | | 20 | U | 1000 | 98 | 49-156 | | 6020 |

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS - TOTAL RECOVERABLE

Client ID: _____ Lab ID: 240-10615-J-4-B MS

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.: _____

Matrix: Water Concentration Units: ug/L

% Solids: _____

| Analyte | SSR | C | Sample Result (SR) | C | Spike Added (SA) | %R | Control Limit %R | Q | Method |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 98.0 | | 0.71 | J | 100 | 97 | 44-153 | | 6020 |
| Arsenic | 978 | | 0.75 | J | 1000 | 98 | 82-123 | | 6020 |
| Barium | 1090 | | 92 | | 1000 | 99 | 45-144 | | 6020 |
| Beryllium | 980 | | 1.0 | U | 1000 | 98 | 77-124 | | 6020 |
| Cadmium | 989 | | 1.0 | U | 1000 | 99 | 78-117 | | 6020 |
| Chromium | 983 | | 2.0 | U | 1000 | 98 | 72-110 | | 6020 |
| Cobalt | 982 | | 0.13 | J | 1000 | 98 | 67-114 | | 6020 |
| Copper | 1010 | | 4.3 | | 1000 | 100 | 60-123 | | 6020 |
| Lead | 1080 | | 1.0 | U | 1000 | 108 | 73-115 | | 6020 |
| Molybdenum | 109 | | 11 | | 100 | 98 | 80-110 | | 6020 |
| Nickel | 998 | | 0.62 | J | 1000 | 100 | 72-111 | | 6020 |
| Selenium | 988 | | 5.0 | U | 1000 | 99 | 72-148 | | 6020 |
| Silver | 101 | | 1.0 | U | 100 | 101 | 10-139 | | 6020 |
| Thallium | 266 | | 0.80 | J | 250 | 106 | 69-117 | | 6020 |
| Vanadium | 964 | | 20 | U | 1000 | 96 | 70-112 | | 6020 |
| Tungsten | 96.9 | | 0.62 | J | 100 | 96 | 43-133 | | 6020 |
| Zinc | 1000 | | 20 | U | 1000 | 100 | 49-156 | | 6020 |

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: _____ Lab ID: 240-10615-G-4-B MS

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.: _____

Matrix: Water Concentration Units: ug/L

% Solids: _____

| Analyte | SSR | C | Sample Result (SR) | C | Spike Added (SA) | %R | Control Limit %R | Q | Method |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 96.1 | | 0.29 | J | 100 | 96 | 44-153 | | 6020 |
| Arsenic | 966 | | 0.72 | J | 1000 | 97 | 82-123 | | 6020 |
| Barium | 1080 | | 89 | | 1000 | 99 | 45-144 | | 6020 |
| Beryllium | 998 | | 1.0 | U | 1000 | 100 | 77-124 | | 6020 |
| Cadmium | 975 | | 1.0 | U | 1000 | 98 | 78-117 | | 6020 |
| Chromium | 990 | | 2.0 | U | 1000 | 99 | 72-110 | | 6020 |
| Cobalt | 979 | | 0.061 | J | 1000 | 98 | 67-114 | | 6020 |
| Copper | 998 | | 0.37 | J | 1000 | 100 | 60-123 | | 6020 |
| Lead | 1080 | | 1.0 | U | 1000 | 108 | 73-115 | | 6020 |
| Molybdenum | 109 | | 11 | | 100 | 98 | 80-110 | | 6020 |
| Nickel | 992 | | 0.20 | J | 1000 | 99 | 72-111 | | 6020 |
| Selenium | 990 | | 5.0 | U | 1000 | 99 | 72-148 | | 6020 |
| Silver | 99.4 | | 1.0 | U | 100 | 99 | 10-139 | | 6020 |
| Thallium | 262 | | 1.1 | J | 250 | 104 | 69-117 | | 6020 |
| Vanadium | 979 | | 20 | U | 1000 | 98 | 70-112 | | 6020 |
| Tungsten | 96.3 | | 0.81 | J | 100 | 96 | 43-133 | | 6020 |
| Zinc | 991 | | 5.2 | J | 1000 | 99 | 49-156 | | 6020 |

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: _____ Lab ID: 240-10615-J-4-E MS

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.: _____

Matrix: Water Concentration Units: ug/L

% Solids: _____

| Analyte | SSR | C | Sample Result (SR) | C | Spike Added (SA) | %R | Control Limit %R | Q | Method |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 1.01 | | 0.20 | U | 1.00 | 101 | 69-134 | | 7470A |

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: _____ Lab ID: 240-10615-G-4-E MS

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.: _____

Matrix: Water Concentration Units: ug/L

% Solids: _____

| Analyte | SSR | C | Sample Result (SR) | C | Spike Added (SA) | %R | Control Limit %R | Q | Method |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 1.00 | | 0.20 | U | 1.00 | 100 | 69-134 | | 7470A |

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: _____ Lab ID: 240-10570-D-11-D MSD

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.: _____

Matrix: Water Concentration Units: ug/L

% Solids: _____

| Analyte | (SDR) C | | Spike Added (SA) | %R | Control Limit %R | RPD | RPD Limit | Q | Method |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 1.06 | | 1.00 | 106 | 69-134 | 5 | 20 | | 7470A |

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS - TOTAL RECOVERABLE

Client ID: _____ Lab ID: 240-10621-AL-1-C MSD

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.: _____

Matrix: Water Concentration Units: ug/L

% Solids: _____

| Analyte | (SDR) | C | Spike Added (SA) | %R | Control Limit %R | RPD | RPD Limit | Q | Method |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 96.8 | | 100 | 97 | 44-153 | 1 | 20 | | 6020 |
| Arsenic | 995 | | 1000 | 98 | 82-123 | 2 | 20 | | 6020 |
| Barium | 1110 | | 1000 | 101 | 45-144 | 2 | 20 | | 6020 |
| Beryllium | 968 | | 1000 | 97 | 77-124 | 1 | 20 | | 6020 |
| Cadmium | 969 | | 1000 | 97 | 78-117 | 2 | 20 | | 6020 |
| Chromium | 1010 | | 1000 | 101 | 72-110 | 1 | 20 | | 6020 |
| Cobalt | 987 | | 1000 | 98 | 67-114 | 1 | 20 | | 6020 |
| Copper | 971 | | 1000 | 97 | 60-123 | 1 | 20 | | 6020 |
| Lead | 1080 | | 1000 | 108 | 73-115 | 2 | 20 | | 6020 |
| Molybdenum | 106 | | 100 | 101 | 80-110 | 1 | 20 | | 6020 |
| Nickel | 983 | | 1000 | 98 | 72-111 | 1 | 20 | | 6020 |
| Selenium | 988 | | 1000 | 99 | 72-148 | 1 | 20 | | 6020 |
| Silver | 97.6 | | 100 | 98 | 10-139 | 2 | 20 | | 6020 |
| Thallium | 262 | | 250 | 104 | 69-117 | 1 | 20 | | 6020 |
| Vanadium | 996 | | 1000 | 100 | 70-112 | 1 | 20 | | 6020 |
| Tungsten | 100 | | 100 | 100 | 43-133 | 1 | 20 | | 6020 |
| Zinc | 973 | | 1000 | 97 | 49-156 | 1 | 20 | | 6020 |

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS - TOTAL RECOVERABLE

Client ID: _____ Lab ID: 240-10615-J-4-C MSD

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.: _____

Matrix: Water Concentration Units: ug/L

% Solids: _____

| Analyte | (SDR) C | | Spike Added (SA) | %R | Control Limit %R | RPD | RPD Limit | Q | Method |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 96.8 | | 100 | 96 | 44-153 | 1 | 20 | | 6020 |
| Arsenic | 961 | | 1000 | 96 | 82-123 | 2 | 20 | | 6020 |
| Barium | 1080 | | 1000 | 99 | 45-144 | 0 | 20 | | 6020 |
| Beryllium | 976 | | 1000 | 98 | 77-124 | 0 | 20 | | 6020 |
| Cadmium | 982 | | 1000 | 98 | 78-117 | 1 | 20 | | 6020 |
| Chromium | 981 | | 1000 | 98 | 72-110 | 0 | 20 | | 6020 |
| Cobalt | 976 | | 1000 | 98 | 67-114 | 1 | 20 | | 6020 |
| Copper | 992 | | 1000 | 99 | 60-123 | 1 | 20 | | 6020 |
| Lead | 1070 | | 1000 | 107 | 73-115 | 1 | 20 | | 6020 |
| Molybdenum | 109 | | 100 | 98 | 80-110 | 0 | 20 | | 6020 |
| Nickel | 986 | | 1000 | 99 | 72-111 | 1 | 20 | | 6020 |
| Selenium | 978 | | 1000 | 98 | 72-148 | 1 | 20 | | 6020 |
| Silver | 99.9 | | 100 | 100 | 10-139 | 1 | 20 | | 6020 |
| Thallium | 264 | | 250 | 105 | 69-117 | 1 | 20 | | 6020 |
| Vanadium | 966 | | 1000 | 97 | 70-112 | 0 | 20 | | 6020 |
| Tungsten | 95.4 | | 100 | 95 | 43-133 | 2 | 20 | | 6020 |
| Zinc | 986 | | 1000 | 99 | 49-156 | 2 | 20 | | 6020 |

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: _____ Lab ID: 240-10615-G-4-C MSD

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.: _____

Matrix: Water Concentration Units: ug/L

% Solids: _____

| Analyte | (SDR) C | | Spike Added (SA) | %R | Control Limit %R | RPD | RPD Limit | Q | Method |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 95.7 | | 100 | 95 | 44-153 | 0 | 20 | | 6020 |
| Arsenic | 974 | | 1000 | 97 | 82-123 | 1 | 20 | | 6020 |
| Barium | 1080 | | 1000 | 99 | 45-144 | 0 | 20 | | 6020 |
| Beryllium | 993 | | 1000 | 99 | 77-124 | 0 | 20 | | 6020 |
| Cadmium | 978 | | 1000 | 98 | 78-117 | 0 | 20 | | 6020 |
| Chromium | 987 | | 1000 | 99 | 72-110 | 0 | 20 | | 6020 |
| Cobalt | 982 | | 1000 | 98 | 67-114 | 0 | 20 | | 6020 |
| Copper | 998 | | 1000 | 100 | 60-123 | 0 | 20 | | 6020 |
| Lead | 1070 | | 1000 | 107 | 73-115 | 1 | 20 | | 6020 |
| Molybdenum | 109 | | 100 | 98 | 80-110 | 0 | 20 | | 6020 |
| Nickel | 994 | | 1000 | 99 | 72-111 | 0 | 20 | | 6020 |
| Selenium | 986 | | 1000 | 99 | 72-148 | 0 | 20 | | 6020 |
| Silver | 101 | | 100 | 101 | 10-139 | 1 | 20 | | 6020 |
| Thallium | 263 | | 250 | 105 | 69-117 | 0 | 20 | | 6020 |
| Vanadium | 968 | | 1000 | 97 | 70-112 | 1 | 20 | | 6020 |
| Tungsten | 96.2 | | 100 | 95 | 43-133 | 0 | 20 | | 6020 |
| Zinc | 997 | | 1000 | 99 | 49-156 | 1 | 20 | | 6020 |

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: _____ Lab ID: 240-10615-J-4-F MSD

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.: _____

Matrix: Water Concentration Units: ug/L

% Solids: _____

| Analyte | (SDR) C | | Spike Added (SA) | %R | Control Limit %R | RPD | RPD Limit | Q | Method |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 1.11 | | 1.00 | 111 | 69-134 | 9 | 20 | | 7470A |

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: _____ Lab ID: 240-10615-G-4-F MSD

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.: _____

Matrix: Water Concentration Units: ug/L

% Solids: _____

| Analyte | (SDR) | C | Spike Added (SA) | %R | Control Limit %R | RPD | RPD Limit | Q | Method |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.965 | | 1.00 | 97 | 69-134 | 4 | 20 | | 7470A |

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VD - IN

7A-IN
LAB CONTROL SAMPLE
METALS - TOTAL RECOVERABLE

Lab ID: LCS 240-41805/2-A

Lab Name: TestAmerica Canton  Job No.: 240-10598-1

Sample Matrix: Water  LCS Source: MTICPMSB_00006

| Analyte | Water(ug/L) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | True | Found | C | %R | Limits | | Q | Method |
| Antimony | 100 | 95.1 | | 95 | 80 | 120 | | 6020 |
| Arsenic | 1000 | 972 | | 97 | 80 | 120 | | 6020 |
| Barium | 1000 | 983 | | 98 | 80 | 120 | | 6020 |
| Beryllium | 1000 | 993 | | 99 | 80 | 120 | | 6020 |
| Cadmium | 1000 | 989 | | 99 | 80 | 120 | | 6020 |
| Chromium | 1000 | 976 | | 98 | 80 | 120 | | 6020 |
| Cobalt | 1000 | 971 | | 97 | 80 | 120 | | 6020 |
| Copper | 1000 | 1020 | | 102 | 80 | 120 | | 6020 |
| Lead | 1000 | 1080 | | 108 | 80 | 120 | | 6020 |
| Molybdenum | 100 | 94.7 | | 95 | 80 | 120 | | 6020 |
| Nickel | 1000 | 998 | | 100 | 80 | 120 | | 6020 |
| Selenium | 1000 | 999 | | 100 | 80 | 120 | | 6020 |
| Silver | 100 | 102 | | 102 | 80 | 120 | | 6020 |
| Thallium | 250 | 264 | | 106 | 80 | 120 | | 6020 |
| Vanadium | 1000 | 954 | | 95 | 80 | 120 | | 6020 |
| Tungsten | 100 | 92.9 | | 93 | 80 | 120 | | 6020 |
| Zinc | 1000 | 1030 | | 103 | 80 | 120 | | 6020 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS - TOTAL RECOVERABLE

Lab ID: LCS 240-41803/2-A

Lab Name: TestAmerica Canton  Job No.: 240-10598-1

Sample Matrix: Water  LCS Source: MTICPMSB_00006

| Analyte | Water(ug/L) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | True | Found | C | %R | Limits | | Q | Method |
| Antimony | 100 | 92.6 | | 93 | 80 | 120 | | 6020 |
| Arsenic | 1000 | 940 | | 94 | 80 | 120 | | 6020 |
| Barium | 1000 | 946 | | 95 | 80 | 120 | | 6020 |
| Beryllium | 1000 | 991 | | 99 | 80 | 120 | | 6020 |
| Cadmium | 1000 | 955 | | 95 | 80 | 120 | | 6020 |
| Chromium | 1000 | 952 | | 95 | 80 | 120 | | 6020 |
| Cobalt | 1000 | 956 | | 96 | 80 | 120 | | 6020 |
| Copper | 1000 | 987 | | 99 | 80 | 120 | | 6020 |
| Lead | 1000 | 1070 | | 107 | 80 | 120 | | 6020 |
| Molybdenum | 100 | 91.9 | | 92 | 80 | 120 | | 6020 |
| Nickel | 1000 | 972 | | 97 | 80 | 120 | | 6020 |
| Selenium | 1000 | 970 | | 97 | 80 | 120 | | 6020 |
| Silver | 100 | 99.4 | | 99 | 80 | 120 | | 6020 |
| Thallium | 250 | 258 | | 103 | 80 | 120 | | 6020 |
| Vanadium | 1000 | 929 | | 93 | 80 | 120 | | 6020 |
| Tungsten | 100 | 90.5 | | 91 | 80 | 120 | | 6020 |
| Zinc | 1000 | 992 | | 99 | 80 | 120 | | 6020 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 240-41755/2-A

Lab Name: TestAmerica Canton  Job No.: 240-10598-1

Sample Matrix: Water  LCS Source: MTHGICVW_00283

| Analyte | Water(ug/L) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | True | Found | C | %R | Limits | | Q | Method |
| Mercury | 5.00 | 5.18 | | 104 | 81 | 123 | | 7470A |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 240-41812/2-A

Lab Name: TestAmerica Canton  Job No.: 240-10598-1

Sample Matrix: Water  LCS Source: MTHGICVW_00284

| Analyte | Water(ug/L) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | True | Found | C | %R | Limits | | Q | Method |
| Mercury | 5.00 | 4.93 | | 99 | 81 | 123 | | 7470A |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS - TOTAL RECOVERABLE

Lab ID: 240-10621-AL-1-A SD ^5

SDG No:

Lab Name: TestAmerica Canton Job No: 240-10598-1

Matrix: Water Concentration Units: ug/L

| Analyte | Initial Sample Result (I) | C | Serial Dilution Result (S) | C | % Difference | Q | Method |
|---|---|---|---|---|---|---|---|
| Antimony | 0.16 | J | 10 | U | NC | | 6020 |
| Arsenic | 12 | | 12.2 | J | NC | | 6020 |
| Barium | 100 | | 102 | | NC | | 6020 |
| Beryllium | 1.0 | U | 5.0 | U | NC | | 6020 |
| Cadmium | 1.0 | U | 5.0 | U | NC | | 6020 |
| Chromium | 2.0 | U | 10 | U | NC | | 6020 |
| Cobalt | 2.2 | | 2.11 | J | NC | | 6020 |
| Copper | 2.0 | U | 10 | U | NC | | 6020 |
| Lead | 1.0 | U | 5.0 | U | NC | | 6020 |
| Molybdenum | 5.1 | J | 5.00 | J | NC | | 6020 |
| Nickel | 2.7 | | 2.63 | J | NC | | 6020 |
| Selenium | 5.0 | U | 25 | U | NC | | 6020 |
| Silver | 1.0 | U | 5.0 | U | NC | | 6020 |
| Thallium | 0.77 | J | 1.42 | J | NC | | 6020 |
| Vanadium | 0.46 | J | 100 | U | NC | | 6020 |
| Tungsten | 0.56 | J | 50 | U | NC | | 6020 |
| Zinc | 20 | U | 100 | U | NC | | 6020 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS - TOTAL RECOVERABLE

Lab ID: 240-10615-J-4-A SD ^5

SDG No:

Lab Name: TestAmerica Canton Job No: 240-10598-1

Matrix: Water Concentration Units: ug/L

| Analyte | Initial Sample Result (I) | C | Serial Dilution Result (S) | C | % Difference | Q | Method |
|---|---|---|---|---|---|---|---|
| Antimony | 0.71 | J | 0.840 | J | NC | | 6020 |
| Arsenic | 0.75 | J | 25 | U | NC | | 6020 |
| Barium | 92 | | 91.8 | | NC | | 6020 |
| Beryllium | 1.0 | U | 5.0 | U | NC | | 6020 |
| Cadmium | 1.0 | U | 5.0 | U | NC | | 6020 |
| Chromium | 2.0 | U | 10 | U | NC | | 6020 |
| Cobalt | 0.13 | J | 0.475 | J | NC | | 6020 |
| Copper | 4.3 | | 5.17 | J | NC | | 6020 |
| Lead | 1.0 | U | 5.0 | U | NC | | 6020 |
| Molybdenum | 11 | | 11.4 | J | NC | | 6020 |
| Nickel | 0.62 | J | 1.10 | J | NC | | 6020 |
| Selenium | 5.0 | U | 25 | U | NC | | 6020 |
| Silver | 1.0 | U | 5.0 | U | NC | | 6020 |
| Thallium | 0.80 | J | 1.58 | J | NC | | 6020 |
| Vanadium | 20 | U | 100 | U | NC | | 6020 |
| Tungsten | 0.62 | J | 50 | U | NC | | 6020 |
| Zinc | 20 | U | 100 | U | NC | | 6020 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton  Job Number: 240-10598-1

SDG Number:

Matrix: Water  Instrument ID: I8

Method: 6020  MDL Date: 02/09/2010 15:53

Prep Method: 3005A

| Analyte | Wavelength/ Mass | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| Antimony | 121.00 | 2 | 0.13 |
| Arsenic | 75.00 | 5 | 0.4 |
| Barium | 137.00 | 5 | 0.19 |
| Beryllium | 9.00 | 1 | 0.2 |
| Cadmium | 111.00 | 1 | 0.13 |
| Chromium | 52.00 | 2 | 0.71 |
| Cobalt | 59.00 | 1 | 0.058 |
| Copper | 65.00 | 2 | 0.29 |
| Lead | 208.00 | 1 | 0.18 |
| Molybdenum | 95.00 | 10 | 0.093 |
| Nickel | 60.00 | 2 | 0.2 |
| Selenium | 78.00 | 5 | 0.57 |
| Silver | 107.00 | 1 | 0.08 |
| Thallium | 205.00 | 2 | 0.14 |
| Tungsten | 182.00 | 10 | 0.37 |
| Vanadium | 51.00 | 20 | 0.44 |
| Zinc | 66.00 | 20 | 2.3 |

9-IN

CALIBRATION BLANK DETECTION LIMITS

METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job Number: 240-10598-1

SDG Number:

Matrix: Water Instrument ID: I8

Method: 6020 XMDL Date: 02/09/2010 15:53

| Analyte | Wavelength/ Mass | XRL (ug/L) | XMDL (ug/L) |
|---|---|---|---|
| Antimony | 121.00 | 2 | 0.13 |
| Arsenic | 75.00 | 5 | 0.4 |
| Barium | 137.00 | 5 | 0.19 |
| Beryllium | 9.00 | 1 | 0.2 |
| Cadmium | 111.00 | 1 | 0.13 |
| Chromium | 52.00 | 2 | 0.71 |
| Cobalt | 59.00 | 1 | 0.058 |
| Copper | 65.00 | 2 | 0.29 |
| Lead | 208.00 | 1 | 0.18 |
| Molybdenum | 95.00 | 10 | 0.093 |
| Nickel | 60.00 | 2 | 0.2 |
| Selenium | 78.00 | 5 | 0.57 |
| Silver | 107.00 | 1 | 0.08 |
| Thallium | 205.00 | 2 | 0.14 |
| Tungsten | 182.00 | 10 | 0.37 |
| Vanadium | 51.00 | 20 | 0.44 |
| Zinc | 66.00 | 20 | 2.3 |

9-IN
DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Canton Job Number: 240-10598-1

SDG Number:

Matrix: Water Instrument ID: I8

Method: 6020 MDL Date: 02/09/2010 15:53

Prep Method: 3005A

| Analyte | Wavelength/ Mass | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| Antimony | 121.00 | 2 | 0.13 |
| Arsenic | 75.00 | 5 | 0.4 |
| Barium | 137.00 | 5 | 0.19 |
| Beryllium | 9.00 | 1 | 0.2 |
| Cadmium | 111.00 | 1 | 0.13 |
| Chromium | 52.00 | 2 | 0.71 |
| Cobalt | 59.00 | 1 | 0.058 |
| Copper | 65.00 | 2 | 0.29 |
| Lead | 208.00 | 1 | 0.18 |
| Molybdenum | 95.00 | 10 | 0.093 |
| Nickel | 60.00 | 2 | 0.2 |
| Selenium | 78.00 | 5 | 0.57 |
| Silver | 107.00 | 1 | 0.08 |
| Thallium | 205.00 | 2 | 0.14 |
| Tungsten | 182.00 | 10 | 0.37 |
| Vanadium | 51.00 | 20 | 0.44 |
| Zinc | 66.00 | 20 | 2.3 |

9-IN

CALIBRATION BLANK DETECTION LIMITS

METALS - DISSOLVED

Lab Name: TestAmerica Canton Job Number: 240-10598-1

SDG Number:

Matrix: Water Instrument ID: I8

Method: 6020 XMDL Date: 02/09/2010 15:53

| Analyte | Wavelength/ Mass | XRL (ug/L) | XMDL (ug/L) |
|---|---|---|---|
| Antimony | 121.00 | 2 | 0.13 |
| Arsenic | 75.00 | 5 | 0.4 |
| Barium | 137.00 | 5 | 0.19 |
| Beryllium | 9.00 | 1 | 0.2 |
| Cadmium | 111.00 | 1 | 0.13 |
| Chromium | 52.00 | 2 | 0.71 |
| Cobalt | 59.00 | 1 | 0.058 |
| Copper | 65.00 | 2 | 0.29 |
| Lead | 208.00 | 1 | 0.18 |
| Molybdenum | 95.00 | 10 | 0.093 |
| Nickel | 60.00 | 2 | 0.2 |
| Selenium | 78.00 | 5 | 0.57 |
| Silver | 107.00 | 1 | 0.08 |
| Thallium | 205.00 | 2 | 0.14 |
| Tungsten | 182.00 | 10 | 0.37 |
| Vanadium | 51.00 | 20 | 0.44 |
| Zinc | 66.00 | 20 | 2.3 |

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Canton Job Number: 240-10598-1

SDG Number:

Matrix: Water Instrument ID: H4

Method: 7470A MDL Date: 02/08/2010 16:06

Prep Method: 7470A

| Analyte | Wavelength/ Mass | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| Mercury | 253.7 | 0.2 | 0.12 |

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Canton Job Number: 240-10598-1

SDG Number:

Matrix: Water Instrument ID: H4

Method: 7470A XMDL Date: 02/08/2010 16:06

| Analyte | Wavelength/ Mass | XRL (ug/L) | XMDL (ug/L) |
|---|---|---|---|
| Mercury | 253.7 | 0.2 | 0.12 |

9-IN
DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Canton  Job Number: 240-10598-1

SDG Number:

Matrix: Water  Instrument ID: H4

Method: 7470A  MDL Date: 02/08/2010 16:06

Prep Method: 7470A

| Analyte | Wavelength/ Mass | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| Mercury | 253.7 | 0.2 | 0.12 |

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Canton Job Number: 240-10598-1

SDG Number:

Matrix: Water Instrument ID: H4

Method: 7470A XMDL Date: 02/08/2010 16:06

| Analyte | Wavelength/ Mass | XRL (ug/L) | XMDL (ug/L) |
|---|---|---|---|
| Mercury | 253.7 | 0.2 | 0.12 |

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Canton Job No: 240-10598-1

SDG No.:

Instrument ID: I8 Date: 07/05/2011 09:44

| Analyte | Integ. Time (Sec.) | Concentration (ppb) | Method |
|---|---|---|---|
| Antimony | | 1000 | 6020 |
| Arsenic | | 10000 | 6020 |
| Barium | | 10000 | 6020 |
| Beryllium | | 10000 | 6020 |
| Cadmium | | 10000 | 6020 |
| Chromium | | 10000 | 6020 |
| Cobalt | | 10000 | 6020 |
| Copper | | 10000 | 6020 |
| Lead | | 10000 | 6020 |
| Molybdenum | | 2000 | 6020 |
| Nickel | | 10000 | 6020 |
| Selenium | | 10000 | 6020 |
| Silver | | 1000 | 6020 |
| Thallium | | 10000 | 6020 |
| Vanadium | | 10000 | 6020 |
| Tungsten | | 2000 | 6020 |
| Zinc | | 10000 | 6020 |

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Canton Job No: 240-10598-1

SDG No.:

Instrument ID: H4 Date: 04/01/2011 10:50

| Analyte | Integ. Time (Sec.) | Concentration (ppb) | Method |
|---|---|---|---|
| Mercury | | 10 | 7470A |

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Prep Method: 3005A

| Lab Sample ID | Preparation Date | Prep Batch | Initial Weight | Initial Volume (mL) | Final Volume (mL) |
|---|---|---|---|---|---|
| MB 240-41803/1-A | 04/26/2012 16:50 | 41803 | | 50 | 50 |
| LCS 240-41803/2-A | 04/26/2012 16:50 | 41803 | | 50 | 50 |
| 240-10621-AL-1-B MS | 04/26/2012 16:50 | 41803 | | 50 | 50 |
| 240-10621-AL-1-C MSD | 04/26/2012 16:50 | 41803 | | 50 | 50 |
| 240-10598-2 | 04/26/2012 16:50 | 41803 | | 50 | 50 |

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Prep Method: 3005A

| Lab Sample ID | Preparation Date | Prep Batch | Initial Weight | Initial Volume (mL) | Final Volume (mL) |
|---|---|---|---|---|---|
| MB 240-41805/1-A | 04/26/2012 17:01 | 41805 | | 50 | 50 |
| LCS 240-41805/2-A | 04/26/2012 17:01 | 41805 | | 50 | 50 |
| 240-10615-J-4-B MS | 04/26/2012 17:01 | 41805 | | 50 | 50 |
| 240-10615-J-4-C MSD | 04/26/2012 17:01 | 41805 | | 50 | 50 |
| 240-10615-G-4-B MS | 04/26/2012 17:01 | 41805 | | 50 | 50 |
| 240-10615-G-4-C MSD | 04/26/2012 17:01 | 41805 | | 50 | 50 |
| 240-10598-2 | 04/26/2012 17:01 | 41805 | | 50 | 50 |
| 240-10598-3 | 04/26/2012 17:01 | 41805 | | 50 | 50 |
| 240-10598-3 | 04/26/2012 17:01 | 41805 | | 50 | 50 |

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Prep Method: 7470A

| Lab Sample ID | Preparation Date | Prep Batch | Initial Weight | Initial Volume (mL) | Final Volume (mL) |
|---|---|---|---|---|---|
| MB 240-41755/1-A | 04/26/2012 15:50 | 41755 | | 100 | 100 |
| LCS 240-41755/2-A | 04/26/2012 15:50 | 41755 | | 100 | 100 |
| 240-10570-D-11-C MS | 04/26/2012 15:50 | 41755 | | 100 | 100 |
| 240-10570-D-11-D MSD | 04/26/2012 15:50 | 41755 | | 100 | 100 |
| 240-10598-2 | 04/26/2012 15:50 | 41755 | | 100 | 100 |
| 240-10598-2 | 04/26/2012 15:50 | 41755 | | 100 | 100 |

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Prep Method: 7470A

| Lab Sample ID | Preparation Date | Prep Batch | Initial Weight | Initial Volume (mL) | Final Volume (mL) |
|---|---|---|---|---|---|
| MB 240-41812/1-A | 04/27/2012 12:40 | 41812 | | 100 | 100 |
| LCS 240-41812/2-A | 04/27/2012 12:40 | 41812 | | 100 | 100 |
| 240-10615-J-4-E MS | 04/27/2012 12:40 | 41812 | | 100 | 100 |
| 240-10615-J-4-F MSD | 04/27/2012 12:40 | 41812 | | 100 | 100 |
| 240-10615-G-4-E MS | 04/27/2012 12:40 | 41812 | | 100 | 100 |
| 240-10615-G-4-F MSD | 04/27/2012 12:40 | 41812 | | 100 | 100 |
| 240-10598-3 | 04/27/2012 12:40 | 41812 | | 100 | 100 |
| 240-10598-3 | 04/27/2012 12:40 | 41812 | | 100 | 100 |

# ANALYSIS RUN LOG
## METALS

Lab Name: TestAmerica Canton  Job No.: 240-10598-1

SDG No.:

Instrument ID: I8  Method: 6020

Start Date: 04/28/2012 08:05  End Date: 04/29/2012 03:22

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Ag | As | Ba | Be | Cd | Co | Cr | Cu | Mo | Ni | Pb | Sb | Se | Tl | V | W | Zn | | | |
| ICIS 240-42093/1 | | | 08:05 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| STD2 240-42093/2 IC | 1 | | 08:11 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| STD3 240-42093/3 IC | 1 | | 08:18 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| STD4 240-42093/4 IC | 1 | | 08:25 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ICV 240-42093/5 | 1 | | 08:30 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ICB 240-42093/6 | 1 | | 08:37 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CRI 240-42093/7 | 1 | | 08:43 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CRI 240-42093/8 | | | 08:48 | | | | | | | | | | | | | | | | | | | | |
| ICSA 240-42093/9 | 1 | | 08:53 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ICSAB 240-42093/10 | 1 | | 08:59 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CCV 240-42093/11 | | | 09:06 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-42093/12 | | | 09:13 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:19 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:24 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:31 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:37 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:42 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:56 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:02 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:09 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:16 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42093/23 | | | 10:21 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-42093/24 | | | 10:28 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:34 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:39 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:44 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:50 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:55 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:00 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:06 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:11 | | | | | | | | | | | | | | | | | | | | |
| CRI 240-42093/33 | | | 11:17 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42093/34 | | | 11:22 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-42093/35 | | | 11:29 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:40 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:46 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:51 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:56 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:02 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:07 | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Instrument ID: I8 Method: 6020

Start Date: 04/28/2012 08:05 End Date: 04/29/2012 03:22

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Ag | As | Ba | Be | Cd | Co | Cr | Cu | Mo | Ni | Pb | Sb | Se | Tl | V | W | Zn | | | |
| ZZZZZZ | | | 12:13 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:18 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:23 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42093/46 | 1 | | 12:29 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CCB 240-42093/47 | 1 | | 12:36 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ZZZZZZ | | | 12:41 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:47 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:52 | | | | | | | | | | | | | | | | | | | | |
| MB 240-41805/1-A | 1 | R | 12:58 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| LCS 240-41805/2-A | 1 | R | 13:03 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ZZZZZZ | | | 13:10 | | | | | | | | | | | | | | | | | | | | |
| 240-10615-J-4-A SD ^5 | 5 | R | 13:16 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| 240-10615-J-4-B MS | 1 | R | 13:21 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| 240-10615-J-4-C MSD | 1 | R | 13:28 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ZZZZZZ | | | 13:35 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42093/58 | 1 | | 13:41 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CCB 240-42093/59 | 1 | | 13:48 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| 240-10615-G-4-B MS | 1 | D | 13:53 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| 240-10615-G-4-C MSD | 1 | D | 14:00 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| 240-10598-2 | 1 | D | 14:07 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| 240-10598-3 | 1 | R | 14:13 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| 240-10598-3 | 1 | D | 14:18 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ZZZZZZ | | | 14:24 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:29 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:40 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:46 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42093/70 | 1 | | 14:51 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CCB 240-42093/71 | 1 | | 14:58 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ZZZZZZ | | | 15:04 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:09 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:14 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:20 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:25 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:31 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:36 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:41 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:47 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:52 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42093/82 | | | 15:58 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-42093/83 | | | 16:05 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:10 | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Instrument ID: I8 Method: 6020

Start Date: 04/28/2012 08:05 End Date: 04/29/2012 03:22

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Ag | As | Ba | Be | Cd | Co | Cr | Cu | Mo | Ni | Pb | Sb | Se | Tl | V | W | Zn | | | |
| ZZZZZZ | | | 16:16 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:23 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:28 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:34 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:41 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:48 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:54 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:59 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:04 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42093/94 | | | 17:10 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-42093/95 | | | 17:17 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:22 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:28 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:33 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:39 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:44 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:55 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:00 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:06 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:11 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42093/106 | | | 18:17 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-42093/107 | | | 18:24 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:29 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:42 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:47 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:53 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:58 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:05 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:12 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:18 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:23 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42093/118 | | | 19:29 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-42093/119 | | | 19:36 | | | | | | | | | | | | | | | | | | | | |
| ICSA 240-42093/120 | 1 | | 19:41 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| ICSAB 240-42093/121 | 1 | | 19:47 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| CCV 240-42093/122 | | | 19:54 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-42093/123 | | | 20:01 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:07 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:12 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:18 | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Instrument ID: I8 Method: 6020

Start Date: 04/28/2012 08:05 End Date: 04/29/2012 03:22

| Lab Sample ID | D/F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Ag | As | Ba | Be | Cd | Co | Cr | Cu | Mo | Ni | Pb | Sb | Se | Tl | V | W | Zn | | | |
| ZZZZZZ | | | 20:23 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:28 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:34 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:39 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:45 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:50 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:56 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42093/134 | 1 | | 21:01 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CCB 240-42093/135 | 1 | | 21:08 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ZZZZZZ | | | 21:14 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 21:19 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 21:25 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 21:30 | | | | | | | | | | | | | | | | | | | | |
| MB 240-41803/1-A | 1 | R | 21:36 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| LCS 240-41803/2-A | 1 | R | 21:41 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ZZZZZZ | | | 21:48 | | | | | | | | | | | | | | | | | | | | |
| 240-10621-AL-1-A SD ^5 | 5 | R | 21:54 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| 240-10621-AL-1-B MS | 1 | R | 21:59 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| 240-10621-AL-1-C MSD | 1 | R | 22:06 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CCV 240-42093/146 | 1 | | 22:14 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CCB 240-42093/147 | 1 | | 22:21 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ZZZZZZ | | | 22:26 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:32 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:37 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:43 | | | | | | | | | | | | | | | | | | | | |
| 240-10598-2 | 1 | R | 22:48 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ZZZZZZ | | | 22:53 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:59 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 23:04 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 23:10 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 23:15 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42093/158 | 1 | | 23:21 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CCB 240-42093/159 | 1 | | 23:28 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ZZZZZZ | | | 23:34 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 23:39 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 23:44 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 23:50 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 23:55 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 00:01 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 00:06 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 00:12 | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Instrument ID: I8 Method: 6020

Start Date: 04/28/2012 08:05 End Date: 04/29/2012 03:22

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Ag | As | Ba | Be | Cd | Co | Cr | Cu | Mo | Ni | Pb | Sb | Se | Tl | V | W | Zn | | | |
| ZZZZZZ | | | 00:17 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 00:23 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42093/170 | | | 00:28 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-42093/171 | | | 00:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 00:40 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 00:48 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 00:53 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 01:00 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 01:07 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 01:13 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 01:18 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 01:24 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 01:29 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 01:35 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42093/182 | | | 01:40 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-42093/183 | | | 01:47 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 01:53 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 01:58 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 02:03 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 02:09 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 02:14 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 02:20 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 02:25 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 02:31 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 02:36 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 02:42 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42093/194 | | | 02:47 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-42093/195 | | | 02:54 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 02:59 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 03:04 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 03:10 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42093/199 | | | 03:15 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-42093/200 | | | 03:22 | | | | | | | | | | | | | | | | | | | | |

Prep Types
D = Dissolved
R = Total Recoverable

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Instrument ID: H4 Method: 7470A

Start Date: 04/27/2012 17:42 End Date: 04/27/2012 22:52

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Hg | | | | | | | | | | | | | | | | | | | | |
| IC 240-41879/1-A | | | 17:42 | X | | | | | | | | | | | | | | | | | | | | |
| IC 240-41879/2-A | | | 17:44 | X | | | | | | | | | | | | | | | | | | | | |
| IC 240-41879/3-A | | | 17:46 | X | | | | | | | | | | | | | | | | | | | | |
| IC 240-41879/4-A | | | 17:48 | X | | | | | | | | | | | | | | | | | | | | |
| IC 240-41879/5-A | | | 17:50 | X | | | | | | | | | | | | | | | | | | | | |
| IC 240-41879/6-A | | | 17:52 | X | | | | | | | | | | | | | | | | | | | | |
| ICV 240-41879/7-A | 1 | | 17:54 | X | | | | | | | | | | | | | | | | | | | | |
| ICB 240-41879/8-A | 1 | | 17:55 | X | | | | | | | | | | | | | | | | | | | | |
| CRA 240-41879/9-A | 1 | | 17:58 | X | | | | | | | | | | | | | | | | | | | | |
| CCVL 240-41879/10-A | 1 | | 18:00 | X | | | | | | | | | | | | | | | | | | | | |
| CCB 240-41879/11-A | | | 18:02 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:04 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:06 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:08 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:10 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:12 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:14 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:16 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:18 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:20 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:23 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-41879/12-A | | | 18:25 | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-41879/11-A | | | 18:27 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:29 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:31 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:33 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:36 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:38 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:41 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:43 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:45 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:47 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:49 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-41879/12-A | | | 18:51 | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-41879/11-A | | | 18:53 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:55 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:57 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:00 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:01 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:03 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:05 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:07 | | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Instrument ID: H4 Method: 7470A

Start Date: 04/27/2012 17:42 End Date: 04/27/2012 22:52

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Hg | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:10 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:12 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:14 | | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-41879/12-A | | | 19:17 | | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-41879/11-A | | | 19:18 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:20 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:22 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:24 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:26 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:28 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:30 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:32 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:34 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:36 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:37 | | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-41879/12-A | | | 19:39 | | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-41879/11-A | | | 19:41 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:43 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:45 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:47 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:49 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:51 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:53 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:55 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:56 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:58 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:00 | | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-41879/12-A | | | 20:02 | | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-41879/11-A | | | 20:04 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:06 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:08 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:10 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:12 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:14 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:16 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:18 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:21 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:23 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:25 | | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-41879/12-A | 1 | | 20:27 | X | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-41879/11-A | 1 | | 20:29 | X | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:31 | | | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Instrument ID: H4 Method: 7470A

Start Date: 04/27/2012 17:42 End Date: 04/27/2012 22:52

| Lab Sample ID | D / F | Type | Time | Analytes |
|---|---|---|---|---|
| | | | | Hg |
| ZZZZZZ | | | 20:33 | |
| ZZZZZZ | | | 20:36 | |
| ZZZZZZ | | | 20:38 | |
| ZZZZZZ | | | 20:40 | |
| ZZZZZZ | | | 20:42 | |
| ZZZZZZ | | | 20:44 | |
| ZZZZZZ | | | 20:46 | |
| MB 240-41755/1-A | 1 | T | 20:48 | X |
| LCS 240-41755/2-A | 1 | T | 20:50 | X |
| CCV 240-41879/12-A | 1 | | 20:52 | X |
| CCB 240-41879/11-A | 1 | | 20:54 | X |
| ZZZZZZ | | | 20:56 | |
| 240-10570-D-11-C MS | 1 | D | 20:58 | X |
| 240-10570-D-11-D MSD | 1 | D | 21:00 | X |
| ZZZZZZ | | | 21:02 | |
| ZZZZZZ | | | 21:04 | |
| ZZZZZZ | | | 21:07 | |
| ZZZZZZ | | | 21:09 | |
| ZZZZZZ | | | 21:11 | |
| ZZZZZZ | | | 21:13 | |
| ZZZZZZ | | | 21:15 | |
| CCV 240-41879/12-A | 1 | | 21:17 | X |
| CCB 240-41879/11-A | 1 | | 21:19 | X |
| ZZZZZZ | | | 21:21 | |
| ZZZZZZ | | | 21:23 | |
| ZZZZZZ | | | 21:26 | |
| ZZZZZZ | | | 21:28 | |
| ZZZZZZ | | | 21:30 | |
| ZZZZZZ | | | 21:32 | |
| ZZZZZZ | | | 21:34 | |
| ZZZZZZ | | | 21:36 | |
| ZZZZZZ | | | 21:38 | |
| ZZZZZZ | | | 21:40 | |
| CCV 240-41879/12-A | 1 | | 21:42 | X |
| CCB 240-41879/11-A | 1 | | 21:43 | X |
| 240-10598-2 | 1 | T | 21:45 | X |
| 240-10598-2 | 1 | D | 21:47 | X |
| ZZZZZZ | | | 21:49 | |
| ZZZZZZ | | | 21:51 | |
| ZZZZZZ | | | 21:53 | |
| ZZZZZZ | | | 21:55 | |
| ZZZZZZ | | | 21:57 | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Instrument ID: H4 Method: 7470A

Start Date: 04/27/2012 17:42 End Date: 04/27/2012 22:52

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Hg | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:00 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:02 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:04 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-41879/12-A | 1 | | 22:06 | X | | | | | | | | | | | | | | | | | | | | |
| CCB 240-41879/11-A | 1 | | 22:08 | X | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:10 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:12 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:14 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:16 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:18 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:20 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:22 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:24 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:25 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:28 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-41879/12-A | | | 22:30 | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-41879/11-A | | | 22:32 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:34 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:36 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:38 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:40 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:42 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:44 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:45 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:47 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-41879/12-A | | | 22:50 | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-41879/11-A | | | 22:52 | | | | | | | | | | | | | | | | | | | | | |

Prep Types

D = Dissolved

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Instrument ID: H4 Method: 7470A

Start Date: 04/28/2012 10:06 End Date: 04/28/2012 15:00

| Lab Sample ID | D / F | Type | Time | Analytes |
|---|---|---|---|---|
| | | | | Hg |
| IC 240-41879/1-A | | | 10:06 | X |
| IC 240-41879/2-A | | | 10:08 | X |
| IC 240-41879/3-A | | | 10:10 | X |
| IC 240-41879/4-A | | | 10:13 | X |
| IC 240-41879/5-A | | | 10:15 | X |
| IC 240-41879/6-A | | | 10:17 | X |
| ICV 240-41879/7-A | 1 | | 10:19 | X |
| ICB 240-41879/8-A | 1 | | 10:22 | X |
| CRA 240-41879/9-A | 1 | | 10:24 | X |
| CCVL 240-41879/10-A | 1 | | 10:26 | X |
| CCB 240-41879/11-A | | | 10:28 | |
| ZZZZZZ | | | 10:30 | |
| ZZZZZZ | | | 10:32 | |
| ZZZZZZ | | | 10:34 | |
| ZZZZZZ | | | 10:36 | |
| ZZZZZZ | | | 10:38 | |
| ZZZZZZ | | | 10:40 | |
| ZZZZZZ | | | 10:42 | |
| ZZZZZZ | | | 10:44 | |
| ZZZZZZ | | | 10:46 | |
| ZZZZZZ | | | 10:49 | |
| CCV 240-41879/12-A | | | 10:52 | |
| CCB 240-41879/11-A | | | 10:55 | |
| ZZZZZZ | | | 10:57 | |
| ZZZZZZ | | | 10:59 | |
| ZZZZZZ | | | 11:01 | |
| ZZZZZZ | | | 11:03 | |
| ZZZZZZ | | | 11:05 | |
| ZZZZZZ | | | 11:07 | |
| ZZZZZZ | | | 11:08 | |
| ZZZZZZ | | | 11:11 | |
| ZZZZZZ | | | 11:13 | |
| ZZZZZZ | | | 11:15 | |
| CCV 240-41879/12-A | | | 11:17 | |
| CCB 240-41879/11-A | | | 11:19 | |
| ZZZZZZ | | | 11:22 | |
| ZZZZZZ | | | 11:24 | |
| ZZZZZZ | | | 11:26 | |
| ZZZZZZ | | | 11:28 | |
| CCV 240-41879/12-A | 1 | | 11:31 | X |
| CCB 240-41879/11-A | 1 | | 11:33 | X |
| ZZZZZZ | | | 11:35 | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Instrument ID: H4 Method: 7470A

Start Date: 04/28/2012 10:06 End Date: 04/28/2012 15:00

| Lab Sample ID | D / F | Type | Time | Analytes |
|---|---|---|---|---|
| | | | | Hg |
| ZZZZZZ | | | 11:37 | |
| ZZZZZZ | | | 11:38 | |
| ZZZZZZ | | | 11:40 | |
| ZZZZZZ | | | 11:44 | |
| ZZZZZZ | | | 11:45 | |
| ZZZZZZ | | | 11:48 | |
| ZZZZZZ | | | 11:49 | |
| MB 240-41812/1-A | 1 | T | 11:51 | X |
| LCS 240-41812/2-A | 1 | T | 11:53 | X |
| CCV 240-41879/12-A | 1 | | 11:55 | X |
| CCB 240-41879/11-A | 1 | | 11:59 | X |
| ZZZZZZ | | | 12:01 | |
| 240-10615-J-4-E MS | 1 | T | 12:03 | X |
| 240-10615-J-4-F MSD | 1 | T | 12:05 | X |
| ZZZZZZ | | | 12:06 | |
| 240-10615-G-4-E MS | 1 | D | 12:08 | X |
| 240-10615-G-4-F MSD | 1 | D | 12:11 | X |
| 240-10598-3 | 1 | T | 12:13 | X |
| 240-10598-3 | 1 | D | 12:15 | X |
| ZZZZZZ | | | 12:16 | |
| ZZZZZZ | | | 12:18 | |
| CCV 240-41879/12-A | 1 | | 12:20 | X |
| CCB 240-41879/11-A | 1 | | 12:22 | X |
| ZZZZZZ | | | 12:24 | |
| ZZZZZZ | | | 12:26 | |
| ZZZZZZ | | | 12:28 | |
| ZZZZZZ | | | 12:30 | |
| ZZZZZZ | | | 12:32 | |
| ZZZZZZ | | | 12:34 | |
| ZZZZZZ | | | 12:36 | |
| ZZZZZZ | | | 12:37 | |
| ZZZZZZ | | | 12:39 | |
| ZZZZZZ | | | 12:41 | |
| CCV 240-41879/12-A | | | 12:43 | |
| CCB 240-41879/11-A | | | 12:45 | |
| ZZZZZZ | | | 12:47 | |
| ZZZZZZ | | | 12:50 | |
| ZZZZZZ | | | 12:52 | |
| ZZZZZZ | | | 12:54 | |
| ZZZZZZ | | | 12:56 | |
| ZZZZZZ | | | 12:58 | |
| ZZZZZZ | | | 13:00 | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Instrument ID: H4 Method: 7470A

Start Date: 04/28/2012 10:06 End Date: 04/28/2012 15:00

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Hg | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:03 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:05 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:07 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-41879/12-A | | | 13:09 | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-41879/11-A | | | 13:11 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:13 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:15 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:17 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:19 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:21 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:23 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:25 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:27 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:29 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:31 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-41879/12-A | | | 13:33 | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-41879/11-A | | | 13:35 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:37 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:39 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:41 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:42 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:44 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:47 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:49 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:51 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:53 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:55 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-41879/12-A | | | 13:57 | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-41879/11-A | | | 13:59 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:00 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:03 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:05 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:07 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:09 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:11 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:13 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:15 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:17 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:19 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-41879/12-A | | | 14:22 | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-41879/11-A | | | 14:24 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:26 | | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

Instrument ID: H4 Method: 7470A

Start Date: 04/28/2012 10:06 End Date: 04/28/2012 15:00

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Hg | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:28 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:29 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:32 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:34 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:36 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:38 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:40 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:42 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:44 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-41879/12-A | | | 14:46 | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-41879/11-A | | | 14:48 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:50 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:52 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:54 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:56 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-41879/12-A | | | 14:58 | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-41879/11-A | | | 15:00 | | | | | | | | | | | | | | | | | | | | | |

Prep Types

D = Dissolved

T = Total/NA

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

ICP-MS Instrument ID: I8 Start Date: 04/28/2012 End Date: 04/28/2012

| Lab Sample ID | Time | Internal Standards %RI For: | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Element Li | Q | Element Sc | Q | Element Sc | Q | Element Ge | Q | Element In | Q |
| STD2 240-42093/2 IC | 08:11 | 78 | | 88 | | 93 | | 91 | | 93 | |
| STD3 240-42093/3 IC | 08:18 | 72 | | 82 | | 86 | | 83 | | 87 | |
| STD4 240-42093/4 IC | 08:25 | 92 | | 99 | | 99 | | 99 | | 98 | |
| ICV 240-42093/5 | 08:30 | 79 | | 89 | | 92 | | 90 | | 92 | |
| ICB 240-42093/6 | 08:37 | 93 | | 98 | | 99 | | 98 | | 98 | |
| CRI 240-42093/7 | 08:43 | 90 | | 97 | | 98 | | 97 | | 97 | |
| ICSA 240-42093/9 | 08:53 | 66 | | 78 | | 79 | | 80 | | 84 | |
| ICSAB 240-42093/10 | 08:59 | 57 | | 69 | | 74 | | 76 | | 81 | |
| CCV 240-42093/46 | 12:29 | 69 | | 75 | | 79 | | 77 | | 80 | |
| CCB 240-42093/47 | 12:36 | 91 | | 87 | | 87 | | 87 | | 87 | |
| MB 240-41805/1-A | 12:58 | 82 | | 82 | | 87 | | 86 | | 86 | |
| LCS 240-41805/2-A | 13:03 | 78 | | 80 | | 85 | | 84 | | 87 | |
| 240-10615-J-4-A SD | 13:16 | 83 | | 79 | | 82 | | 82 | | 83 | |
| 240-10615-J-4-B MS | 13:21 | 73 | | 75 | | 80 | | 79 | | 82 | |
| 240-10615-J-4-C MSD | 13:28 | 78 | | 76 | | 79 | | 79 | | 81 | |
| CCV 240-42093/58 | 13:41 | 71 | | 72 | | 78 | | 76 | | 78 | |
| CCB 240-42093/59 | 13:48 | 92 | | 82 | | 85 | | 84 | | 84 | |
| 240-10615-G-4-B MS | 13:53 | 77 | | 76 | | 79 | | 79 | | 81 | |
| 240-10615-G-4-C MSD | 14:00 | 80 | | 76 | | 79 | | 77 | | 80 | |
| 240-10598-2 | 14:07 | 90 | | 79 | | 80 | | 80 | | 81 | |
| 240-10598-3 | 14:13 | 76 | | 72 | | 75 | | 74 | | 75 | |
| 240-10598-3 | 14:18 | 75 | | 72 | | 75 | | 74 | | 75 | |
| CCV 240-42093/70 | 14:51 | 67 | | 68 | | 73 | | 71 | | 74 | |
| CCB 240-42093/71 | 14:58 | 91 | | 80 | | 80 | | 80 | | 80 | |
| ICSA 240-42093/120 | 19:41 | 65 | | 66 | | 67 | | 66 | | 69 | |
| ICSAB 240-42093/121 | 19:47 | 57 | | 61 | | 65 | | 64 | | 68 | |
| CCV 240-42093/134 | 21:01 | 61 | | 67 | | 70 | | 68 | | 70 | |
| CCB 240-42093/135 | 21:08 | 80 | | 73 | | 74 | | 74 | | 73 | |
| MB 240-41803/1-A | 21:36 | 73 | | 68 | | 73 | | 72 | | 73 | |
| LCS 240-41803/2-A | 21:41 | 70 | | 68 | | 73 | | 72 | | 73 | |
| 240-10621-AL-1-A SD | 21:54 | 72 | | 68 | | 72 | | 71 | | 71 | |
| 240-10621-AL-1-B MS | 21:59 | 59 | | 63 | | 65 | | 63 | | 67 | |
| 240-10621-AL-1-C | 22:06 | 61 | | 62 | | 65 | | 64 | | 67 | |
| CCV 240-42093/146 | 22:14 | 67 | | 65 | | 68 | | 66 | | 68 | |
| CCB 240-42093/147 | 22:21 | 81 | | 71 | | 74 | | 73 | | 73 | |
| 240-10598-2 | 22:48 | 71 | | 68 | | 71 | | 71 | | 71 | |
| CCV 240-42093/158 | 23:21 | 59 | | 63 | | 68 | | 66 | | 67 | |
| CCB 240-42093/159 | 23:28 | 77 | | 70 | | 73 | | 72 | | 72 | |

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Canton Job No.: 240-10598-1

SDG No.:

ICP-MS Instrument ID: I8 Start Date: 04/28/2012 End Date: 04/28/2012

| Lab Sample ID | Time | Internal Standards %RI For: | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Element Tb | Q | Element Ho | Q | Element Bi | Q | Element | Q | Element | Q |
| STD2 240-42093/2 IC | 08:11 | | | 96 | | | | | | | |
| STD3 240-42093/3 IC | 08:18 | | | 91 | | | | | | | |
| STD4 240-42093/4 IC | 08:25 | | | 99 | | | | | | | |
| ICV 240-42093/5 | 08:30 | | | 95 | | | | | | | |
| ICB 240-42093/6 | 08:37 | | | 98 | | | | | | | |
| CRI 240-42093/7 | 08:43 | | | 97 | | | | | | | |
| ICSA 240-42093/9 | 08:53 | | | 86 | | | | | | | |
| ICSAB 240-42093/10 | 08:59 | | | 85 | | | | | | | |
| CCV 240-42093/46 | 12:29 | | | 84 | | | | | | | |
| CCB 240-42093/47 | 12:36 | | | 89 | | | | | | | |
| MB 240-41805/1-A | 12:58 | | | 88 | | | | | | | |
| LCS 240-41805/2-A | 13:03 | | | 89 | | | | | | | |
| 240-10615-J-4-A SD | 13:16 | | | 85 | | | | | | | |
| 240-10615-J-4-B MS | 13:21 | | | 85 | | | | | | | |
| 240-10615-J-4-C MSD | 13:28 | | | 85 | | | | | | | |
| CCV 240-42093/58 | 13:41 | | | 82 | | | | | | | |
| CCB 240-42093/59 | 13:48 | | | 84 | | | | | | | |
| 240-10615-G-4-B MS | 13:53 | | | 83 | | | | | | | |
| 240-10615-G-4-C MSD | 14:00 | | | 83 | | | | | | | |
| 240-10598-2 | 14:07 | | | 83 | | | | | | | |
| 240-10598-3 | 14:13 | | | 82 | | | | | | | |
| 240-10598-3 | 14:18 | | | 81 | | | | | | | |
| CCV 240-42093/70 | 14:51 | | | 78 | | | | | | | |
| CCB 240-42093/71 | 14:58 | | | 82 | | | | | | | |
| ICSA 240-42093/120 | 19:41 | | | 71 | | | | | | | |
| ICSAB 240-42093/121 | 19:47 | | | 71 | | | | | | | |
| CCV 240-42093/134 | 21:01 | | | 73 | | | | | | | |
| CCB 240-42093/135 | 21:08 | | | 75 | | | | | | | |
| MB 240-41803/1-A | 21:36 | | | 74 | | | | | | | |
| LCS 240-41803/2-A | 21:41 | | | 76 | | | | | | | |
| 240-10621-AL-1-A SD | 21:54 | | | 74 | | | | | | | |
| 240-10621-AL-1-B MS | 21:59 | | | 70 | | | | | | | |
| 240-10621-AL-1-C | 22:06 | | | 70 | | | | | | | |
| CCV 240-42093/146 | 22:14 | | | 72 | | | | | | | |
| CCB 240-42093/147 | 22:21 | | | 75 | | | | | | | |
| 240-10598-2 | 22:48 | | | 74 | | | | | | | |
| CCV 240-42093/158 | 23:21 | | | 72 | | | | | | | |
| CCB 240-42093/159 | 23:28 | | | 74 | | | | | | | |

# METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton  Job No.: 240-10598-1

SDG No.:

Batch Number: 41803  Batch Start Date: 04/27/12 08:00  Batch Analyst: Nicholas, Courtney

Batch Method: 3005A  Batch End Date: 04/27/12 17:00

| Lab Sample ID | Client Sample ID | Method Chain | Basis | InitialAmount | FinalAmount | MTHCL 00028 | MTHNO3 00024 | MTICPMS2 00007 | MTICPMSA 00006 |
|---|---|---|---|---|---|---|---|---|---|
| MB 240-41803/1 | | 3005A, 6020 | | 50 mL | 50 mL | 2.5 mL | 1 mL | | |
| LCS 240-41803/2 | | 3005A, 6020 | | 50 mL | 50 mL | 2.5 mL | 1 mL | 0.5 mL | 0.5 mL |
| 240-10621-AL-1 MS | | 3005A, 6020 | R | 50 mL | 50 mL | 2.5 mL | 1 mL | 0.5 mL | 0.5 mL |
| 240-10621-AL-1 MSD | | 3005A, 6020 | R | 50 mL | 50 mL | 2.5 mL | 1 mL | 0.5 mL | 0.5 mL |
| 240-10598-G-2 | MT-MW04S | 3005A, 6020 | R | 50 mL | 50 mL | 2.5 mL | 1 mL | | |

| Lab Sample ID | Client Sample ID | Method Chain | Basis | MTICPMSB 00006 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| MB 240-41803/1 | | 3005A, 6020 | | | | | | | |
| LCS 240-41803/2 | | 3005A, 6020 | | 0.5 mL | | | | | |
| 240-10621-AL-1 MS | | 3005A, 6020 | R | 0.5 mL | | | | | |
| 240-10621-AL-1 MSD | | 3005A, 6020 | R | 0.5 mL | | | | | |
| 240-10598-G-2 | MT-MW04S | 3005A, 6020 | R | | | | | | |

| Batch Notes | |
|---|---|
| Filter Paper Lot Number | 4645986 |
| Pipette ID | 383363 |
| Digestion Tube/Cup Lot # | 1111173 |

| Basis | Basis Description |
|---|---|
| R | Total Recoverable |

# METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton  Job No.: 240-10598-1

SDG No.:

Batch Number: 41805  Batch Start Date: 04/27/12 12:00  Batch Analyst: Nicholas, Courtney

Batch Method: 3005A  Batch End Date: 04/27/12 19:15

| Lab Sample ID | Client Sample ID | Method Chain | Basis | InitialAmount | FinalAmount | MTHCL 00028 | MTHNO3 00024 | MTICPMS2 00007 | MTICPMSA 00006 |
|---|---|---|---|---|---|---|---|---|---|
| MB 240-41805/1 | | 3005A, 6020 | | 50 mL | 50 mL | 2.5 mL | 1 mL | | |
| LCS 240-41805/2 | | 3005A, 6020 | | 50 mL | 50 mL | 2.5 mL | 1 mL | 0.5 mL | 0.5 mL |
| 240-10615-J-4 MS | | 3005A, 6020 | R | 50 mL | 50 mL | 2.5 mL | 1 mL | 0.5 mL | 0.5 mL |
| 240-10615-J-4 MSD | | 3005A, 6020 | R | 50 mL | 50 mL | 2.5 mL | 1 mL | 0.5 mL | 0.5 mL |
| 240-10615-G-4 MS | | 3005A, 6020 | D | 50 mL | 50 mL | 2.5 mL | 1 mL | 0.5 mL | 0.5 mL |
| 240-10615-G-4 MSD | | 3005A, 6020 | D | 50 mL | 50 mL | 2.5 mL | 1 mL | 0.5 mL | 0.5 mL |
| 240-10598-H-2 | MT-MW04S | 3005A, 6020 | D | 50 mL | 50 mL | 2.5 mL | 1 mL | | |
| 240-10598-G-3 | MT-MW06S | 3005A, 6020 | R | 50 mL | 50 mL | 2.5 mL | 1 mL | | |
| 240-10598-H-3 | MT-MW06S | 3005A, 6020 | D | 50 mL | 50 mL | 2.5 mL | 1 mL | | |

| Lab Sample ID | Client Sample ID | Method Chain | Basis | MTICPMSB 00006 |
|---|---|---|---|---|
| MB 240-41805/1 | | 3005A, 6020 | | |
| LCS 240-41805/2 | | 3005A, 6020 | | 0.5 mL |
| 240-10615-J-4 MS | | 3005A, 6020 | R | 0.5 mL |
| 240-10615-J-4 MSD | | 3005A, 6020 | R | 0.5 mL |
| 240-10615-G-4 MS | | 3005A, 6020 | D | 0.5 mL |
| 240-10615-G-4 MSD | | 3005A, 6020 | D | 0.5 mL |
| 240-10598-H-2 | MT-MW04S | 3005A, 6020 | D | |
| 240-10598-G-3 | MT-MW06S | 3005A, 6020 | R | |
| 240-10598-H-3 | MT-MW06S | 3005A, 6020 | D | |

| Batch Notes | |
|---|---|
| Filter Paper Lot Number | 4645986 |
| Pipette ID | 383363 |
| Digestion Tube/Cup Lot # | 1111173 |

# METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton  Job No.: 240-10598-1

SDG No.:

Batch Number: 41805  Batch Start Date: 04/27/12 12:00  Batch Analyst: Nicholas, Courtney

Batch Method: 3005A  Batch End Date: 04/27/12 19:15

| Basis | Basis Description |
|---|---|
| R | Total Recoverable |
| D | Dissolved |

# METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton  Job No.: 240-10598-1

SDG No.:

Batch Number: 41755  Batch Start Date: 04/26/12 15:50  Batch Analyst: Nicholas, Courtney

Batch Method: 7470A  Batch End Date: 04/26/12 17:50

| Lab Sample ID | Client Sample ID | Method Chain | Basis | InitialAmount | FinalAmount | MTH2S04 00007 | MTHGICVW 00283 | MTHNO3 00024 | MTK2S208RGNT 00017 |
|---|---|---|---|---|---|---|---|---|---|
| MB 240-41755/1 | | 7470A, 7470A | | 100 mL | 100 mL | 5 mL | | 2.5 mL | 8 mL |
| LCS 240-41755/2 | | 7470A, 7470A | | 100 mL | 100 mL | 5 mL | 1 mL | 2.5 mL | 8 mL |
| 240-10570-D-11 MS | | 7470A, 7470A | D | 100 mL | 100 mL | 5 mL | 0.2 mL | 2.5 mL | 8 mL |
| 240-10570-D-11 MSD | | 7470A, 7470A | D | 100 mL | 100 mL | 5 mL | 0.2 mL | 2.5 mL | 8 mL |
| 240-10598-G-2 | MT-MW04S | 7470A, 7470A | T | 100 mL | 100 mL | 5 mL | | 2.5 mL | 8 mL |
| 240-10598-H-2 | MT-MW04S | 7470A, 7470A | D | 100 mL | 100 mL | 5 mL | | 2.5 mL | 8 mL |

| Lab Sample ID | Client Sample ID | Method Chain | Basis | MTKMN04W 00020 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| MB 240-41755/1 | | 7470A, 7470A | | 15 mL | | | | | |
| LCS 240-41755/2 | | 7470A, 7470A | | 15 mL | | | | | |
| 240-10570-D-11 MS | | 7470A, 7470A | D | 15 mL | | | | | |
| 240-10570-D-11 MSD | | 7470A, 7470A | D | 15 mL | | | | | |
| 240-10598-G-2 | MT-MW04S | 7470A, 7470A | T | 15 mL | | | | | |
| 240-10598-H-2 | MT-MW04S | 7470A, 7470A | D | 15 mL | | | | | |

| Batch Notes | |
|---|---|
| Pipette ID | 432085 383364 |

| Basis | Basis Description |
|---|---|
| T | Total/NA |
| D | Dissolved |

# METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton  Job No.: 240-10598-1

SDG No.:

Batch Number: 41812  Batch Start Date: 04/27/12 12:40  Batch Analyst: Nicholas, Courtney

Batch Method: 7470A  Batch End Date: 04/27/12 14:40

| Lab Sample ID | Client Sample ID | Method Chain | Basis | InitialAmount | FinalAmount | MTH2S04 00007 | MTHGICVW 00284 | MTHNO3 00024 | MTK2S208RGNT 00017 |
|---|---|---|---|---|---|---|---|---|---|
| MB 240-41812/1 | | 7470A, 7470A | | 100 mL | 100 mL | 5 mL | | 2.5 mL | 8 mL |
| LCS 240-41812/2 | | 7470A, 7470A | | 100 mL | 100 mL | 5 mL | 1 mL | 2.5 mL | 8 mL |
| 240-10615-J-4 MS | | 7470A, 7470A | T | 100 mL | 100 mL | 5 mL | 0.2 mL | 2.5 mL | 8 mL |
| 240-10615-J-4 MSD | | 7470A, 7470A | T | 100 mL | 100 mL | 5 mL | 0.2 mL | 2.5 mL | 8 mL |
| 240-10615-G-4 MS | | 7470A, 7470A | D | 100 mL | 100 mL | 5 mL | 0.2 mL | 2.5 mL | 8 mL |
| 240-10615-G-4 MSD | | 7470A, 7470A | D | 100 mL | 100 mL | 5 mL | 0.2 mL | 2.5 mL | 8 mL |
| 240-10598-G-3 | MT-MW06S | 7470A, 7470A | T | 100 mL | 100 mL | 5 mL | | 2.5 mL | 8 mL |
| 240-10598-H-3 | MT-MW06S | 7470A, 7470A | D | 100 mL | 100 mL | 5 mL | | 2.5 mL | 8 mL |

| Lab Sample ID | Client Sample ID | Method Chain | Basis | MTKMN04W 00020 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| MB 240-41812/1 | | 7470A, 7470A | | 15 mL | | | | | |
| LCS 240-41812/2 | | 7470A, 7470A | | 15 mL | | | | | |
| 240-10615-J-4 MS | | 7470A, 7470A | T | 15 mL | | | | | |
| 240-10615-J-4 MSD | | 7470A, 7470A | T | 15 mL | | | | | |
| 240-10615-G-4 MS | | 7470A, 7470A | D | 15 mL | | | | | |
| 240-10615-G-4 MSD | | 7470A, 7470A | D | 15 mL | | | | | |
| 240-10598-G-3 | MT-MW06S | 7470A, 7470A | T | 15 mL | | | | | |
| 240-10598-H-3 | MT-MW06S | 7470A, 7470A | D | 15 mL | | | | | |

| Batch Notes | |
|---|---|
| Pipette ID | 432085-383364 |

| Basis | Basis Description |
|---|---|
| T | Total/NA |
| D | Dissolved |

# METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton  Job No.: 240-10598-1

SDG No.:

Batch Number: 41879  Batch Start Date: 04/27/12 08:45  Batch Analyst: Sutherland, Aaron

Batch Method: 7470A  Batch End Date: 04/27/12 10:45

| Lab Sample ID | Client Sample ID | Method Chain | Basis | InitialAmount | FinalAmount | MTH2S04 00007 | MTHGCALW 00185 | MTHGICVW 00284 | MTHNO3 00024 |
|---|---|---|---|---|---|---|---|---|---|
| ICV 240-41879/7 | | 7470A, 7470A | | 100 mL | 100 mL | 5 mL | | 0.5 mL | 2.5 mL |
| ICB 240-41879/8 | | 7470A, 7470A | | 100 mL | 100 mL | 5 mL | | | 2.5 mL |
| CRA 240-41879/9 | | 7470A, 7470A | | 100 mL | 100 mL | 5 mL | 0.2 mL | | 2.5 mL |
| CCVL 240-41879/10 | | 7470A, 7470A | | 100 mL | 100 mL | 5 mL | 5 mL | | 2.5 mL |
| CCB 240-41879/11 | | 7470A, 7470A | | 100 mL | 100 mL | 5 mL | | | 2.5 mL |
| CCV 240-41879/12 | | 7470A, 7470A | | 100 mL | 100 mL | 5 mL | 5 mL | | 2.5 mL |

| Lab Sample ID | Client Sample ID | Method Chain | Basis | MTK2S208RGNT 00017 | MTKMN04W 00020 | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ICV 240-41879/7 | | 7470A, 7470A | | 8 mL | 15 mL | | | | |
| ICB 240-41879/8 | | 7470A, 7470A | | 8 mL | 15 mL | | | | |
| CRA 240-41879/9 | | 7470A, 7470A | | 8 mL | 15 mL | | | | |
| CCVL 240-41879/10 | | 7470A, 7470A | | 8 mL | 15 mL | | | | |
| CCB 240-41879/11 | | 7470A, 7470A | | 8 mL | 15 mL | | | | |
| CCV 240-41879/12 | | 7470A, 7470A | | 8 mL | 15 mL | | | | |

| Batch Notes | |
|---|---|
| Pipette ID | 432085-383364-383363-383366 |

| Basis | Basis Description |
|---|---|
| | |

MT-MW065
Total

**240-10598-g-3-a,** 4/28/2012 14:13:35 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

| Run | Time | 6Li | 9Be | 10B |
|---|---|---|---|---|
| | | ppb | ppb | ppb |
| x | | 76.158% | 81.230 | 32.680 |
| %RSD | | 5.071 | 2.103 | 2.333 |
| **Run** | **Time** | **23Na** | **25Mg** | **27Al** |
| | | ppb | ppb | ppb |
| x | | T 86510.000 | 18960.000 | M 1195.000 |
| %RSD | | T 0.828 | 0.521 | M 0.832 |
| **Run** | **Time** | **35Cl** | **39K** | **43Ca** |
| | | ppb | ppb | ppb |
| x | | T 0.000 | T 6808.000 | 13420.000 |
| %RSD | | T 0.000 | T 0.861 | 0.413 |
| **Run** | **Time** | **45Sc** | **45Sc** | **47Ti** |
| | | ppb | ppb | ppb |
| x | | T 72.077% | 74.886% | 0.663 |
| %RSD | | T 0.553 | 0.771 | 41.100 |
| **Run** | **Time** | **51V** | **52Cr** | **53Cr** |
| | | ppb | ppb | ppb |
| x | | 0.147 | 0.114 | 0.560 |
| %RSD | | 156.900 | 58.330 | 74.370 |
| **Run** | **Time** | **55Mn** | **56Fe** | **59Co** |
| | | ppb | ppb | ppb |
| x | | TM 8610.000 | 12.100 | M 542.700 |
| %RSD | | TM 0.651 | 10.810 | M 0.651 |
| **Run** | **Time** | **60Ni** | **65Cu** | **66Zn** |
| | | ppb | ppb | ppb |
| x | | M 1182.000 | 46.330 | M 1902.000 |
| %RSD | | M 0.928 | 2.040 | M 0.218 |
| **Run** | **Time** | **72Ge** | **75As** | **77Ar CI** |
| | | ppb | ppb | ppb |
| x | | 74.115% | 1.481 | 0.271 |
| %RSD | | 0.244 | 3.459 | 10.890 |
| **Run** | **Time** | **78Se** | **88Sr** | **95Mo** |
| | | ppb | ppb | ppb |
| x | | 1.205 | 103.000 | 0.150 |
| %RSD | | 29.180 | 0.577 | 23.320 |
| **Run** | **Time** | **105Pd** | **107Ag** | **109Ag O** |
| | | ppb | ppb | ppb |
| x | | 0.000 | 0.020 | -4.812 |
| %RSD | | 0.000 | 20.090 | 19.850 |
| **Run** | **Time** | **111Cd** | **115In** | **118Sn** |
| | | ppb | ppb | ppb |
| x | | 2.032 | 75.183% | 0.060 |
| %RSD | | 1.717 | 0.241 | 43.470 |
| **Run** | **Time** | **121Sb** | **137Ba** | **159Tb** |
| | | ppb | ppb | ppb |
| x | | 0.087 | 96.100 | 0.000 |
| %RSD | | 13.340 | 0.269 | 0.000 |
| **Run** | **Time** | **165Ho** | **182W** | **205Tl** |
| | | ppb | ppb | ppb |
| x | | 81.805% | 0.202 | 0.771 |
| %RSD | | 0.946 | 0.157 | 2.738 |
| **Run** | **Time** | **208Pb** | **209Bi** | |
| | | ppb | ppb | |
| x | | 2.292 | 0.000 | |
| %RSD | | 0.784 | 0.000 | |

**Tetra Tech INC** **INTERNAL CORRESPONDENCE**

| | | | |
|---|---|---|---|
| **TO:** | **T. APANAVAGE** | **DATE:** | **JULY 2, 2012** |
| **FROM:** | **J. KALINYAK** | **COPIES:** | **DV FILE** |

**SUBJECT:** **ORGANIC DATA VALIDATION - VOC / 1,4-DIOXANE / GRO / DRO / PERCHLORATE**
**LOCKHEED - MSA**
**SAMPLE DELIVERY GROUP (SDG) 240-10670-1**

**SAMPLES:** 4 / Aqueous / VOC

| | | |
|---|---|---|
| MT-MW01S-042512 | MT-MW03S-042512 | MT-MW05S-042512 |
| TB-042512 | | |

3 / Aqueous / 1,4-Dioxane / GRO / DRO / Perchlorate

| | | |
|---|---|---|
| MT-MW01S-042512 | MT-MW03S-042512 | MT-MW05S-042512 |

Overview

The sample set for Lockheed - MSA, SDG 240-10670-1, consisted of four (4) aqueous samples including one (1) aqueous trip blank sample. All aqueous samples were analyzed for volatile organic compounds (VOC). Three (3) aqueous samples were analyzed for 1,4-dioxane, gasoline range organics (GRO), and diesel range organics (DRO) as listed above. No field duplicate sample pairs were included in the sample delivery group (SDG).

The samples were collected by Tetra Tech on April 26, 2012 and analyzed by TestAmerica Laboratories, Inc., Canton for all analyses with the exception of the perchlorate analyses which were subcontracted to TestAmerica Laboratories Inc, West Sacramento. All analyses were conducted in accordance with EPA SW-846 Methods 8260C for VOCs, 8270C for 1,4-dioxane, 8015B for GRO, 8015B for DRO, and 6850 for perchlorates, analytical and reporting protocols.

The data contained in this SDG were validated with regard to the following parameters: data completeness, holding times, GC/MS tuning, initial/continuing calibrations, laboratory method blank results, surrogate spike recoveries, blank spike/blank spike duplicate results, matrix spike/matrix spike duplicate results, internal standard recoveries, chromatographic resolution, compound identification, compound quantitation, and detection limits. Areas of concern are listed below.

Major Problems

- The VOC initial calibration average relative response factor (RRF) was less than the 0.05 criteria for tert-butyl alcohol on instrument A3UX16 on 04/29/12. The continuing calibration verification (CCV) RRFs for tert-butyl alcohol and vinyl acetate were also less than the 0.05 criteria for instrument A3UX16 on 04/30/12 @ 11:50.
  **Affected Samples:** All samples
  **Action:** The sample non-detected results for tert-butyl alcohol and vinyl acetate were qualified rejected, (UR).

- Fluorotrimethyl-silane and trimethyl-silanol were detected as tentatively identified compounds (TICs) by the laboratory for samples MT-MW03S-042512 and TB-042512, respectively.
  **Action:** Fluorotrimethyl-silane and trimethyl-silanol are considered present due to column bleed on the laboratory instrument. The sample positive TIC results for fluorotrimethyl-silane and trimethyl-silanol for these samples were qualified rejected, (R).

Minor Problems

- The total petroleum hydrocarbon (TPH) C6-C10 (GRO) was detected in the method blank at the following maximum concentration affecting all samples.

| Analytes | Maximum Conc. µg/L | Action Level µg/L |
|---|---|---|
| TPH C6-C10 (1) | 32.9 | 164.5 |

(1) Method blank MB 240-42055/7 affecting all samples.

An action level of five times the maximum level for TPH C6-C10 has been used to evaluate sample data for blank contamination. Sample aliquot and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. Sample GRO results if less than the action level were qualified (B), for method blank contamination.

- The TPH C10-C32 (DRO) was detected in the method blank at the following maximum concentration affecting all samples.

| Analytes | Maximum Conc. µg/L | Action Level µg/L |
|---|---|---|
| TPH C10-C32 (1) | 422 | 2110 |

(1) Method blank MB 240-42055/7 affecting all samples.

An action level of five times the maximum level for TPH C10-C32 has been used to evaluate sample data for blank contamination. Sample aliquot and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. Sample DRO results if less than the action level were qualified (B), for method blank contamination.

- Positive results reported below the quantitation limit but above the method detection limit were qualified as estimated, (J).

- The following VOC tentatively identified compounds (TIC) were associated with the samples as listed below. The instrument was not calibrated for these TICs and therefore they were qualified estimated, (NJ), and assumed to be presumptively present.

| Sample | TICs |
|---|---|
| MT-MW01S-042512 | butane |
| MT-MW05S-042512 | 2-methyl butane |

Notes

The laboratory VOC contaminant was detected in the method blank at the following maximum concentration affecting all samples.

| Analytes | Maximum Conc. µg/l | Action Level µg/l |
|---|---|---|
| 1,2,3-Trichlorobenzene [1] | 0.288 | 1.440 |

[1] Method blank MB 240-42171/5 affecting all samples.

An action level of five times the maximum level for 1,2,3-trichlorobenzene has been used to evaluate sample data for blank contamination. Sample aliquot and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. No samples were qualified for 1,2,3-trichlorobenzene method blank contamination.

The VOC MS and the MSD for a spiked sample from another SDG (240-10350-A) had %Rs for 2-chloroethyl vinyl ether less than the quality control limit (0%). No validation action was necessary as the sample was not from this SDG.

The sample MT-MW05S-042512 1,4-dioxane analysis surrogates 2-fluorophenol, phenol-d5, and 2,4,6-tribromophenol %Rs were less than the quality control limit (and less than 10% for two of the surrogates) affecting the acid fraction SVOC analytes. As 1,4-dioxane is associated with base/neutral surrogates, no validation action was necessary for the sample 1,4-dioxane result.

The laboratory reported non-detected sample results to the Method Detection Limit (MDL).

EXECUTIVE SUMMARY

**Laboratory Performance Issues:** VOC non-detected tert-butyl alcohol and vinyl acetate sample results were rejected due to calibration and CCV RRF criteria non-compliances. Sample DRO and GRO results were qualified for method blank contamination.

**Other Factors Affecting Data Quality:** Positive results reported below the quantitation limit but above the method detection limit were qualified as estimated, (J). Some VOC TICs were qualified estimated as the instrument was not calibrated for these analytes. Sample positive silane and silanol TICs were rejected as these analytes were due to instrument column bleed.

The data for these analyses were reviewed with reference to EPA SW-846 Methods 8260C, 8270C, 8015B, and 6850, and the Region III EPA Functional Guidelines for Organic Data Validation (9/94).

Tetra Tech
Joseph Kalinyak
Data Validator/Environmental Scientist

TetraTech
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:
Appendix A – Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
Appendix C – Support Documentation

# APPENDIX A

## QUALIFIED ANALYTICAL RESULTS

## DATA QUALIFICATION CODE (QUAL CODE)

**Qualifier Codes:**

| | | |
|---|---|---|
| A | = | Lab Blank Contamination |
| B | = | Field Blank Contamination |
| C | = | Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.) |
| C01 | = | GC/MS Tuning Noncompliance |
| D | = | MS/MSD Recovery Noncompliance |
| E | = | LCS/LCSD Recovery Noncompliance |
| F | = | Lab Duplicate Imprecision |
| G | = | Field Duplicate Imprecision |
| H | = | Holding Time Exceedance |
| I | = | ICP Serial Dilution Noncompliance |
| J | = | ICP PDS Recovery Noncompliance; MSA's $r < 0.995$ |
| K | = | ICP Interference - includes ICS % R Noncompliance |
| L | = | Instrument Calibration Range Exceedance |
| M | = | Sample Preservation Noncompliance |
| N | = | Internal Standard Noncompliance |
| N01 | = | Internal Standard Recovery Noncompliance Dioxins |
| N02 | = | Recovery Standard Noncompliance Dioxins |
| N03 | = | Clean-up Standard Noncompliance Dioxins |
| O | = | Poor Instrument Performance (i.e., base-time drifting) |
| P | = | Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics) |
| Q | = | Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.) |
| R | = | Surrogates Recovery Noncompliance |
| S | = | Pesticide/PCB Resolution |
| T | = | % Breakdown Noncompliance for DDT and Endrin |
| U | = | RPD between columns/detectors >40% for positive results determined via GC/HPLC |
| V | = | Non-linear calibrations; correlation coefficient $r < 0.995$ |
| W | = | EMPC result |
| X | = | Signal to noise response drop |
| Y | = | Percent solids <30% |
| Z | = | Uncertainty at 2 sigma deviation is less than sample activity |
| Z1 | = | Tentatively Identified Compound considered presumptively present |
| Z2 | = | Tentatively Identified Compound column bleed |

| PROJ_NO: 04021 | NSAMPLE | MT-MW01S-042512 | | | MT-MW03S-042512 | | | MT-MW05S-042512 | | | TB-042512 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-10670-1 | LAB_ID | 240-10670-3 | | | 240-10670-4 | | | 240-10670-2 | | | 240-10670-1 | | |
| FRACTION: OV | SAMP_DATE | 4/25/2012 | | | 4/25/2012 | | | 4/25/2012 | | | 4/25/2012 | | |
| MEDIA: WATER | QC_TYPE | NM | | | NM | | | NM | | | NM | | |
| | UNITS | UG/L | | | UG/L | | | UG/L | | | UG/L | | |
| | PCT_SOLIDS | 0.0 | | | 0.0 | | | 0.0 | | | 0.0 | | |
| | DUP_OF | | | | | | | | | | | | |
| PARAMETER | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| 1,1,1,2-TETRACHLOROETHANE | 0.23 | U | | 0.23 | U | | 0.23 | U | | 0.23 | U | |
| 1,1,1-TRICHLOROETHANE | 0.22 | U | | 0.22 | U | | 0.22 | U | | 0.22 | U | |
| 1,1,2,2-TETRACHLOROETHANE | 0.18 | U | | 0.18 | U | | 0.18 | U | | 0.18 | U | |
| 1,1,2-TRICHLOROTRIFLUOROETHANE | 0.28 | U | | 0.28 | U | | 0.28 | U | | 0.28 | U | |
| 1,1-DICHLOROETHANE | 0.15 | U | | 0.15 | U | | 0.15 | U | | 0.15 | U | |
| 1,1-DICHLOROETHENE | 0.19 | U | | 0.19 | U | | 0.19 | U | | 0.19 | U | |
| 1,1-DICHLOROPROPENE | 0.13 | U | | 0.13 | U | | 0.13 | U | | 0.13 | U | |
| 1,2,3-TRICHLOROBENZENE | 0.17 | U | | 0.17 | U | | 0.17 | U | | 0.17 | U | |
| 1,2,3-TRICHLOROPROPANE | 0.43 | U | | 0.43 | U | | 0.43 | U | | 0.43 | U | |
| 1,2,3-TRIMETHYLBENZENE | 0.0059 | U | | 0.0059 | U | | 0.0059 | U | | 0.0059 | U | |
| 1,2,4-TRICHLOROBENZENE | 0.15 | U | | 0.15 | U | | 0.15 | U | | 0.15 | U | |
| 1,2,4-TRIMETHYLBENZENE | 0.12 | U | | 0.12 | U | | 0.12 | U | | 0.12 | U | |
| 1,2-DIBROMO-3-CHLOROPROPANE | 0.67 | U | | 0.67 | U | | 0.67 | U | | 0.67 | U | |
| 1,2-DIBROMOETHANE | 0.24 | U | | 0.24 | U | | 0.24 | U | | 0.24 | U | |
| 1,2-DICHLOROBENZENE | 0.13 | U | | 0.13 | U | | 0.13 | U | | 0.13 | U | |
| 1,2-DICHLOROETHANE | 0.22 | U | | 0.22 | U | | 0.22 | U | | 0.22 | U | |
| 1,2-DICHLOROPROPANE | 0.18 | U | | 0.18 | U | | 0.18 | U | | 0.18 | U | |
| 1,3-DICHLOROBENZENE | 0.14 | U | | 0.14 | U | | 0.14 | U | | 0.14 | U | |
| 1,3-DICHLOROPROPANE | 0.16 | U | | 0.16 | U | | 0.16 | U | | 0.16 | U | |
| 1,4-DICHLOROBENZENE | 0.13 | U | | 0.13 | U | | 0.13 | U | | 0.13 | U | |
| 2,2-DICHLOROPROPANE | 0.13 | U | | 0.13 | U | | 0.13 | U | | 0.13 | U | |
| 2-BUTANONE | 0.57 | U | | 0.57 | U | | 0.57 | U | | 0.57 | U | |
| 2-CHLOROETHYL VINYL ETHER | 0.99 | U | | 0.99 | U | | 0.99 | U | | 0.99 | U | |
| 2-CHLOROTOLUENE | 0.11 | U | | 0.11 | U | | 0.11 | U | | 0.11 | U | |
| 2-HEXANONE | 0.41 | U | | 0.41 | U | | 0.41 | U | | 0.41 | U | |
| 4-CHLOROTOLUENE | 0.18 | U | | 0.18 | U | | 0.18 | U | | 0.18 | U | |
| 4-ISOPROPYLTOLUENE | 0.12 | U | | 0.12 | U | | 0.12 | U | | 0.12 | U | |
| 4-METHYL-2-PENTANONE | 0.32 | U | | 0.32 | U | | 0.32 | U | | 0.32 | U | |
| ACETONE | 1.1 | U | | 1.1 | U | | 1.1 | U | | 1.1 | U | |
| BENZENE | 0.13 | J | P | 0.13 | U | | 0.13 | U | | 0.13 | U | |
| BROMOBENZENE | 0.13 | U | | 0.13 | U | | 0.13 | U | | 0.13 | U | |
| BROMOCHLOROMETHANE | 0.29 | U | | 0.29 | U | | 0.29 | U | | 0.29 | U | |
| BROMODICHLOROMETHANE | 0.15 | U | | 0.15 | U | | 0.15 | U | | 0.15 | U | |
| BROMOFORM | 0.64 | U | | 0.64 | U | | 0.64 | U | | 0.64 | U | |
| BROMOMETHANE | 0.41 | U | | 0.41 | U | | 0.41 | U | | 0.41 | U | |

| PROJ_NO: 04021 | NSAMPLE | MT-MW01S-042512 | | | MT-MW03S-042512 | | | MT-MW05S-042512 | | | TB-042512 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-10670-1 | LAB_ID | 240-10670-3 | | | 240-10670-4 | | | 240-10670-2 | | | 240-10670-1 | | |
| FRACTION: OV | SAMP_DATE | 4/25/2012 | | | 4/25/2012 | | | 4/25/2012 | | | 4/25/2012 | | |
| MEDIA: WATER | QC_TYPE | NM | | | NM | | | NM | | | NM | | |
| | UNITS | UG/L | | | UG/L | | | UG/L | | | UG/L | | |
| | PCT_SOLIDS | 0.0 | | | 0.0 | | | 0.0 | | | 0.0 | | |
| | DUP_OF | | | | | | | | | | | | |
| PARAMETER | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| BUTANE | 1.4 | NJ | Z1 | | | | | | | | | |
| BUTANE, 2-METHYL- | | | | | | | 2.5 | NJ | Z1 | | | |
| CARBON DISULFIDE | 0.13 | U | | 0.51 | J | P | 0.13 | U | | 0.13 | U | |
| CARBON TETRACHLORIDE | 0.13 | U | | 0.13 | U | | 0.13 | U | | 0.13 | U | |
| CHLOROBENZENE | 0.15 | U | | 0.15 | U | | 0.15 | U | | 0.15 | U | |
| CHLORODIBROMOMETHANE | 0.18 | U | | 0.18 | U | | 0.18 | U | | 0.18 | U | |
| CHLOROETHANE | 0.29 | U | | 0.29 | U | | 0.29 | U | | 0.29 | U | |
| CHLOROFORM | 0.16 | U | | 0.16 | U | | 0.16 | U | | 0.16 | U | |
| CHLOROMETHANE | 0.3 | U | | 0.3 | U | | 0.35 | J | P | 0.3 | U | |
| CIS-1,2-DICHLOROETHENE | 0.17 | U | | 0.17 | U | | 0.17 | U | | 0.17 | U | |
| CIS-1,3-DICHLOROPROPENE | 0.14 | U | | 0.14 | U | | 0.14 | U | | 0.14 | U | |
| DIBROMOMETHANE | 0.28 | U | | 0.28 | U | | 0.28 | U | | 0.28 | U | |
| DICHLORODIFLUOROMETHANE | 0.31 | U | | 0.31 | U | | 0.31 | U | | 0.31 | U | |
| DIISOPROPYL ETHER | 1.5 | U | | 1.5 | U | | 1.5 | U | | 1.5 | U | |
| ETHYL TERT-BUTYL ETHER | 0.11 | U | | 0.11 | U | | 0.11 | U | | 0.11 | U | |
| ETHYLBENZENE | 0.17 | U | | 0.17 | U | | 0.17 | U | | 0.17 | U | |
| HEXACHLOROBUTADIENE | 0.3 | U | | 0.3 | U | | 0.3 | U | | 0.3 | U | |
| ISOPROPYLBENZENE | 0.13 | U | | 0.13 | U | | 0.13 | U | | 0.13 | U | |
| M+P-XYLENES | 0.24 | U | | 0.24 | U | | 0.24 | U | | 0.24 | U | |
| METHYL TERT-BUTYL ETHER | 0.17 | U | | 0.17 | U | | 0.17 | U | | 0.17 | U | |
| METHYLENE CHLORIDE | 0.33 | U | | 0.33 | U | | 0.33 | U | | 0.33 | U | |
| NAPHTHALENE | 0.24 | U | | 0.24 | U | | 0.24 | U | | 0.24 | U | |
| N-BUTYLBENZENE | 0.12 | U | | 0.12 | U | | 0.12 | U | | 0.12 | U | |
| N-PROPYLBENZENE | 0.14 | U | | 0.14 | U | | 0.14 | U | | 0.14 | U | |
| O-XYLENE | 0.14 | U | | 0.14 | U | | 0.14 | U | | 0.14 | U | |
| SEC-BUTYLBENZENE | 0.13 | U | | 0.13 | U | | 0.13 | U | | 0.13 | U | |
| SILANE, FLUOROTRIMETHYL- | | | | 2.8 | R | Z2 | | | | | | |
| SILANOL, TRIMETHYL- | | | | | | | | | | 2.5 | R | Z2 |
| STYRENE | 0.11 | U | | 0.11 | U | | 0.11 | U | | 0.11 | U | |
| TERT-AMYL METHYL ETHER | 0.067 | U | | 0.067 | U | | 0.067 | U | | 0.067 | U | |
| TERT-BUTYLBENZENE | 0.13 | U | | 0.13 | U | | 0.13 | U | | 0.13 | U | |
| TERTIARY-BUTYL ALCOHOL | 3.9 | UR | C | 3.9 | UR | C | 3.9 | UR | C | 3.9 | UR | C |
| TETRACHLOROETHENE | 0.29 | U | | 0.29 | U | | 0.29 | U | | 0.29 | U | |
| TOLUENE | 0.29 | J | P | 0.13 | U | | 0.13 | U | | 0.13 | U | |
| TOTAL XYLENES | 0.28 | U | | 0.28 | U | | 0.28 | U | | 0.28 | U | |

| PROJ_NO: 04021 | NSAMPLE | MT-MW01S-042512 | | | MT-MW03S-042512 | | | MT-MW05S-042512 | | | TB-042512 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-10670-1 | LAB_ID | 240-10670-3 | | | 240-10670-4 | | | 240-10670-2 | | | 240-10670-1 | | |
| FRACTION: OV | SAMP_DATE | 4/25/2012 | | | 4/25/2012 | | | 4/25/2012 | | | 4/25/2012 | | |
| MEDIA: WATER | QC_TYPE | NM | | | NM | | | NM | | | NM | | |
| | UNITS | UG/L | | | UG/L | | | UG/L | | | UG/L | | |
| | PCT_SOLIDS | 0.0 | | | 0.0 | | | 0.0 | | | 0.0 | | |
| | DUP_OF | | | | | | | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| TRANS-1,2-DICHLOROETHENE | | 0.19 | U | | 0.19 | U | | 0.19 | U | | 0.19 | U | |
| TRANS-1,3-DICHLOROPROPENE | | 0.19 | U | | 0.19 | U | | 0.19 | U | | 0.19 | U | |
| TRICHLOROETHENE | | 0.17 | U | | 0.17 | U | | 0.35 | J | P | 0.17 | U | |
| TRICHLOROFLUOROMETHANE | | 0.21 | U | | 0.21 | U | | 0.21 | U | | 0.21 | U | |
| VINYL ACETATE | | 0.19 | UR | C | 0.19 | UR | C | 0.19 | UR | C | 0.19 | UR | C |
| VINYL CHLORIDE | | 0.22 | U | | 0.22 | U | | 0.22 | U | | 0.22 | U | |

| PROJ_NO: 04021 | NSAMPLE | MT-MW01S-042512 | | | MT-MW03S-042512 | | | MT-MW05S-042512 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-10670-1 | LAB_ID | 240-10670-3 | | | 240-10670-4 | | | 240-10670-2 | | |
| FRACTION: OS | SAMP_DATE | 4/25/2012 | | | 4/25/2012 | | | 4/25/2012 | | |
| MEDIA: WATER | QC_TYPE | NM | | | NM | | | NM | | |
| | UNITS | UG/L | | | UG/L | | | UG/L | | |
| | PCT_SOLIDS | 0.0 | | | 0.0 | | | 0.0 | | |
| | DUP_OF | | | | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| 1,4-DIOXANE | | 0.49 | U | | 0.51 | U | | 0.51 | U | |

| PROJ_NO: 04021 | NSAMPLE | MT-MW01S-042512 | | | MT-MW03S-042512 | | | MT-MW05S-042512 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-10670-1 | LAB_ID | 240-10670-3 | | | 240-10670-4 | | | 240-10670-2 | | |
| FRACTION: PET | SAMP_DATE | 4/25/2012 | | | 4/25/2012 | | | 4/25/2012 | | |
| MEDIA: WATER | QC_TYPE | NM | | | NM | | | NM | | |
| | UNITS | UG/L | | | UG/L | | | UG/L | | |
| | PCT_SOLIDS | 0.0 | | | 0.0 | | | 0.0 | | |
| | DUP_OF | | | | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| TPH (C06-C10) | | 64 | B | A | 49 | B | A | 52 | B | A |
| TPH (C10-C32) | | 540 | B | A | 290 | B | A | 430 | B | A |

| PROJ_NO: 04021 | NSAMPLE | MT-MW01S-042512 | | | MT-MW03S-042512 | | | MT-MW05S-042512 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-10670-1 | LAB_ID | 240-10670-3 | | | 240-10670-4 | | | 240-10670-2 | | |
| FRACTION: MISC | SAMP_DATE | 4/25/2012 | | | 4/25/2012 | | | 4/25/2012 | | |
| MEDIA: WATER | QC_TYPE | NM | | | NM | | | NM | | |
| | UNITS | UG/L | | | UG/L | | | UG/L | | |
| | PCT_SOLIDS | 0.0 | | | 0.0 | | | 0.0 | | |
| | DUP_OF | | | | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| PERCHLORATE | | 0.082 | U | | 0.082 | U | | 0.082 | U | |

## APPENDIX B

## RESULTS AS REPORTED BY THE LABORATORY

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-10670-1

SDG No.:

Client Sample ID: MT-MW01S-042512 | Lab Sample ID: 240-10670-3

Matrix: Water | Lab File ID: UXM5282.D

Analysis Method: 8260C | Date Collected: 04/25/2012 13:35

Sample wt/vol: 5(mL) | Date Analyzed: 04/30/2012 16:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 42171 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.23 |
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 1.0 | 0.22 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.18 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0 | U | 1.0 | 0.28 |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.15 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.19 |
| 563-58-6 | 1,1-Dichloropropene | 1.0 | U | 1.0 | 0.13 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 1.0 | 0.17 |
| 96-18-4 | 1,2,3-Trichloropropane | 1.0 | U | 1.0 | 0.43 |
| 526-73-8 | 1,2,3-Trimethylbenzene | 5.0 | U | 5.0 | 0.0059 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.15 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.12 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 2.0 | U | 2.0 | 0.67 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.13 |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.22 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.18 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.14 |
| 142-28-9 | 1,3-Dichloropropane | 1.0 | U | 1.0 | 0.16 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.13 |
| 594-20-7 | 2,2-Dichloropropane | 1.0 | U | 1.0 | 0.13 |
| 110-75-8 | 2-Chloroethyl vinyl ether | 10 | U | 10 | 0.99 |
| 95-49-8 | 2-Chlorotoluene | 1.0 | U | 1.0 | 0.11 |
| 591-78-6 | 2-Hexanone | 10 | U | 10 | 0.41 |
| 108-86-1 | Bromobenzene | 1.0 | U | 1.0 | 0.13 |
| 74-97-5 | Bromochloromethane | 1.0 | U | 1.0 | 0.29 |
| 106-43-4 | 4-Chlorotoluene | 1.0 | U | 1.0 | 0.18 |
| 99-87-6 | p-Isopropyltoluene | 1.0 | U | 1.0 | 0.12 |
| 67-64-1 | Acetone | 10 | U | 10 | 1.1 |
| 71-43-2 | Benzene | 0.13 | J | 1.0 | 0.13 |
| 75-25-2 | Bromoform | 1.0 | U | 1.0 | 0.64 |
| 74-83-9 | Bromomethane | 1.0 | U | 1.0 | 0.41 |
| 75-15-0 | Carbon disulfide | 1.0 | U | 1.0 | 0.13 |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 1.0 | 0.13 |
| 108-90-7 | Chlorobenzene | 1.0 | U | 1.0 | 0.15 |
| 75-00-3 | Chloroethane | 1.0 | U | 1.0 | 0.29 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-10670-1

SDG No.:

Client Sample ID: MT-MW01S-042512 | Lab Sample ID: 240-10670-3

Matrix: Water | Lab File ID: UXM5282.D

Analysis Method: 8260C | Date Collected: 04/25/2012 13:35

Sample wt/vol: 5(mL) | Date Analyzed: 04/30/2012 16:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 42171 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 67-66-3 | Chloroform | 1.0 | U | 1.0 | 0.16 |
| 74-87-3 | Chloromethane | 1.0 | U | 1.0 | 0.30 |
| 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.17 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.14 |
| 87-68-3 | Hexachlorobutadiene | 1.0 | U | 1.0 | 0.30 |
| 74-95-3 | Dibromomethane | 1.0 | U | 1.0 | 0.28 |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 1.0 | 0.15 |
| 75-71-8 | Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.31 |
| 100-41-4 | Ethylbenzene | 1.0 | U | 1.0 | 0.17 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.24 |
| 108-20-3 | Diisopropyl ether | 10 | U | 10 | 1.5 |
| 91-20-3 | Naphthalene | 1.0 | U | 1.0 | 0.24 |
| 179601-23-1 | m-Xylene & p-Xylene | 2.0 | U | 2.0 | 0.24 |
| 104-51-8 | n-Butylbenzene | 1.0 | U | 1.0 | 0.12 |
| 98-82-8 | Isopropylbenzene | 1.0 | U | 1.0 | 0.13 |
| 103-65-1 | n-Propylbenzene | 1.0 | U | 1.0 | 0.14 |
| 78-93-3 | 2-Butanone | 10 | U | 10 | 0.57 |
| 108-10-1 | 4-Methyl-2-pentanone | 10 | U | 10 | 0.32 |
| 135-98-8 | sec-Butylbenzene | 1.0 | U | 1.0 | 0.13 |
| 1634-04-4 | Methyl tert-butyl ether | 5.0 | U | 5.0 | 0.17 |
| 994-05-8 | Tert-amyl-methyl ether (TAME) | 5.0 | U | 5.0 | 0.067 |
| 75-09-2 | Methylene Chloride | 1.0 | U | 1.0 | 0.33 |
| 95-47-6 | o-Xylene | 1.0 | U | 1.0 | 0.14 |
| 100-42-5 | Styrene | 1.0 | U | 1.0 | 0.11 |
| 637-92-3 | Ethyl-t-butyl ether (ETBE) | 5.0 | U | 5.0 | 0.11 |
| 98-06-6 | tert-Butylbenzene | 1.0 | U | 1.0 | 0.13 |
| 127-18-4 | Tetrachloroethene | 1.0 | U | 1.0 | 0.29 |
| 108-88-3 | Toluene | 0.29 | J | 1.0 | 0.13 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.19 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.19 |
| 79-01-6 | Trichloroethene | 1.0 | U | 1.0 | 0.17 |
| 75-69-4 | Trichlorofluoromethane | 1.0 | U | 1.0 | 0.21 |
| 108-05-4 | Vinyl acetate | 2.0 | U | 2.0 | 0.19 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 1.0 | 0.22 |
| 75-65-0 | tert-Butyl alcohol | 50 | U | 50 | 3.9 |
| 1330-20-7 | Xylenes, Total | 2.0 | U | 2.0 | 0.28 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-10670-1

SDG No.:

Client Sample ID: MT-MW01S-042512 | Lab Sample ID: 240-10670-3

Matrix: Water | Lab File ID: UXM5282.D

Analysis Method: 8260C | Date Collected: 04/25/2012 13:35

Sample wt/vol: 5(mL) | Date Analyzed: 04/30/2012 16:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 42171 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | 1.0 | U | 1.0 | 0.18 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 83 | | 63-129 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 90 | | 66-117 |
| 2037-26-5 | Toluene-d8 (Surr) | 86 | | 74-115 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 81 | | 75-121 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton | Job No.: 240-10670-1

SDG No.:

Client Sample ID: MT-MW01S-042512 | Lab Sample ID: 240-10670-3

Matrix: Water | Lab File ID: UXM5282.D

Analysis Method: 8260C | Date Collected: 04/25/2012 13:35

Sample wt/vol: 5(mL) | Date Analyzed: 04/30/2012 16:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 42171 | Units: ug/L

Number TICs Found: 1 | TIC Result Total: 1.4

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| 106-97-8 | Butane | 1.95 | 1.4 | T J N |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-10670-1

SDG No.:

Client Sample ID: MT-MW03S-042512 | Lab Sample ID: 240-10670-4

Matrix: Water | Lab File ID: UXM5283.D

Analysis Method: 8260C | Date Collected: 04/25/2012 14:50

Sample wt/vol: 5(mL) | Date Analyzed: 04/30/2012 17:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 42171 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.23 |
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 1.0 | 0.22 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.18 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0 | U | 1.0 | 0.28 |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.15 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.19 |
| 563-58-6 | 1,1-Dichloropropene | 1.0 | U | 1.0 | 0.13 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 1.0 | 0.17 |
| 96-18-4 | 1,2,3-Trichloropropane | 1.0 | U | 1.0 | 0.43 |
| 526-73-8 | 1,2,3-Trimethylbenzene | 5.0 | U | 5.0 | 0.0059 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.15 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.12 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 2.0 | U | 2.0 | 0.67 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.13 |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.22 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.18 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.14 |
| 142-28-9 | 1,3-Dichloropropane | 1.0 | U | 1.0 | 0.16 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.13 |
| 594-20-7 | 2,2-Dichloropropane | 1.0 | U | 1.0 | 0.13 |
| 110-75-8 | 2-Chloroethyl vinyl ether | 10 | U | 10 | 0.99 |
| 95-49-8 | 2-Chlorotoluene | 1.0 | U | 1.0 | 0.11 |
| 591-78-6 | 2-Hexanone | 10 | U | 10 | 0.41 |
| 108-86-1 | Bromobenzene | 1.0 | U | 1.0 | 0.13 |
| 74-97-5 | Bromochloromethane | 1.0 | U | 1.0 | 0.29 |
| 106-43-4 | 4-Chlorotoluene | 1.0 | U | 1.0 | 0.18 |
| 99-87-6 | p-Isopropyltoluene | 1.0 | U | 1.0 | 0.12 |
| 67-64-1 | Acetone | 10 | U | 10 | 1.1 |
| 71-43-2 | Benzene | 1.0 | U | 1.0 | 0.13 |
| 75-25-2 | Bromoform | 1.0 | U | 1.0 | 0.64 |
| 74-83-9 | Bromomethane | 1.0 | U | 1.0 | 0.41 |
| 75-15-0 | Carbon disulfide | 0.51 | J | 1.0 | 0.13 |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 1.0 | 0.13 |
| 108-90-7 | Chlorobenzene | 1.0 | U | 1.0 | 0.15 |
| 75-00-3 | Chloroethane | 1.0 | U | 1.0 | 0.29 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-10670-1

SDG No.:

Client Sample ID: MT-MW03S-042512 | Lab Sample ID: 240-10670-4

Matrix: Water | Lab File ID: UXM5283.D

Analysis Method: 8260C | Date Collected: 04/25/2012 14:50

Sample wt/vol: 5(mL) | Date Analyzed: 04/30/2012 17:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 42171 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 67-66-3 | Chloroform | 1.0 | U | 1.0 | 0.16 |
| 74-87-3 | Chloromethane | 1.0 | U | 1.0 | 0.30 |
| 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.17 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.14 |
| 87-68-3 | Hexachlorobutadiene | 1.0 | U | 1.0 | 0.30 |
| 74-95-3 | Dibromomethane | 1.0 | U | 1.0 | 0.28 |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 1.0 | 0.15 |
| 75-71-8 | Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.31 |
| 100-41-4 | Ethylbenzene | 1.0 | U | 1.0 | 0.17 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.24 |
| 108-20-3 | Diisopropyl ether | 10 | U | 10 | 1.5 |
| 91-20-3 | Naphthalene | 1.0 | U | 1.0 | 0.24 |
| 179601-23-1 | m-Xylene & p-Xylene | 2.0 | U | 2.0 | 0.24 |
| 104-51-8 | n-Butylbenzene | 1.0 | U | 1.0 | 0.12 |
| 98-82-8 | Isopropylbenzene | 1.0 | U | 1.0 | 0.13 |
| 103-65-1 | n-Propylbenzene | 1.0 | U | 1.0 | 0.14 |
| 78-93-3 | 2-Butanone | 10 | U | 10 | 0.57 |
| 108-10-1 | 4-Methyl-2-pentanone | 10 | U | 10 | 0.32 |
| 135-98-8 | sec-Butylbenzene | 1.0 | U | 1.0 | 0.13 |
| 1634-04-4 | Methyl tert-butyl ether | 5.0 | U | 5.0 | 0.17 |
| 994-05-8 | Tert-amyl-methyl ether (TAME) | 5.0 | U | 5.0 | 0.067 |
| 75-09-2 | Methylene Chloride | 1.0 | U | 1.0 | 0.33 |
| 95-47-6 | o-Xylene | 1.0 | U | 1.0 | 0.14 |
| 100-42-5 | Styrene | 1.0 | U | 1.0 | 0.11 |
| 637-92-3 | Ethyl-t-butyl ether (ETBE) | 5.0 | U | 5.0 | 0.11 |
| 98-06-6 | tert-Butylbenzene | 1.0 | U | 1.0 | 0.13 |
| 127-18-4 | Tetrachloroethene | 1.0 | U | 1.0 | 0.29 |
| 108-88-3 | Toluene | 1.0 | U | 1.0 | 0.13 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.19 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.19 |
| 79-01-6 | Trichloroethene | 1.0 | U | 1.0 | 0.17 |
| 75-69-4 | Trichlorofluoromethane | 1.0 | U | 1.0 | 0.21 |
| 108-05-4 | Vinyl acetate | 2.0 | U | 2.0 | 0.19 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 1.0 | 0.22 |
| 75-65-0 | tert-Butyl alcohol | 50 | U | 50 | 3.9 |
| 1330-20-7 | Xylenes, Total | 2.0 | U | 2.0 | 0.28 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-10670-1

SDG No.:

Client Sample ID: MT-MW03S-042512 | Lab Sample ID: 240-10670-4

Matrix: Water | Lab File ID: UXM5283.D

Analysis Method: 8260C | Date Collected: 04/25/2012 14:50

Sample wt/vol: 5(mL) | Date Analyzed: 04/30/2012 17:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 42171 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | 1.0 | U | 1.0 | 0.18 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 87 | | 63-129 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 93 | | 66-117 |
| 2037-26-5 | Toluene-d8 (Surr) | 91 | | 74-115 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 86 | | 75-121 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton  Job No.: 240-10670-1

SDG No.:

Client Sample ID: MT-MW03S-042512  Lab Sample ID: 240-10670-4

Matrix: Water  Lab File ID: UXM5283.D

Analysis Method: 8260C  Date Collected: 04/25/2012 14:50

Sample wt/vol: 5(mL)  Date Analyzed: 04/30/2012 17:03

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 42171  Units: ug/L

Number TICs Found: 1  TIC Result Total: 2.8

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| 420-56-4 | Silane, fluorotrimethyl- | 2.12 | 2.8 | T J N |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-10670-1

SDG No.:

Client Sample ID: MT-MW05S-042512 | Lab Sample ID: 240-10670-2

Matrix: Water | Lab File ID: UXM5281.D

Analysis Method: 8260C | Date Collected: 04/25/2012 10:51

Sample wt/vol: 5(mL) | Date Analyzed: 04/30/2012 16:17

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 42171 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.23 |
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 1.0 | 0.22 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.18 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0 | U | 1.0 | 0.28 |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.15 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.19 |
| 563-58-6 | 1,1-Dichloropropene | 1.0 | U | 1.0 | 0.13 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 1.0 | 0.17 |
| 96-18-4 | 1,2,3-Trichloropropane | 1.0 | U | 1.0 | 0.43 |
| 526-73-8 | 1,2,3-Trimethylbenzene | 5.0 | U | 5.0 | 0.0059 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.15 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.12 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 2.0 | U | 2.0 | 0.67 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.13 |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.22 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.18 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.14 |
| 142-28-9 | 1,3-Dichloropropane | 1.0 | U | 1.0 | 0.16 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.13 |
| 594-20-7 | 2,2-Dichloropropane | 1.0 | U | 1.0 | 0.13 |
| 110-75-8 | 2-Chloroethyl vinyl ether | 10 | U | 10 | 0.99 |
| 95-49-8 | 2-Chlorotoluene | 1.0 | U | 1.0 | 0.11 |
| 591-78-6 | 2-Hexanone | 10 | U | 10 | 0.41 |
| 108-86-1 | Bromobenzene | 1.0 | U | 1.0 | 0.13 |
| 74-97-5 | Bromochloromethane | 1.0 | U | 1.0 | 0.29 |
| 106-43-4 | 4-Chlorotoluene | 1.0 | U | 1.0 | 0.18 |
| 99-87-6 | p-Isopropyltoluene | 1.0 | U | 1.0 | 0.12 |
| 67-64-1 | Acetone | 10 | U | 10 | 1.1 |
| 71-43-2 | Benzene | 1.0 | U | 1.0 | 0.13 |
| 75-25-2 | Bromoform | 1.0 | U | 1.0 | 0.64 |
| 74-83-9 | Bromomethane | 1.0 | U | 1.0 | 0.41 |
| 75-15-0 | Carbon disulfide | 1.0 | U | 1.0 | 0.13 |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 1.0 | 0.13 |
| 108-90-7 | Chlorobenzene | 1.0 | U | 1.0 | 0.15 |
| 75-00-3 | Chloroethane | 1.0 | U | 1.0 | 0.29 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-10670-1

SDG No.:

Client Sample ID: MT-MW05S-042512 | Lab Sample ID: 240-10670-2

Matrix: Water | Lab File ID: UXM5281.D

Analysis Method: 8260C | Date Collected: 04/25/2012 10:51

Sample wt/vol: 5(mL) | Date Analyzed: 04/30/2012 16:17

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 42171 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 67-66-3 | Chloroform | 1.0 | U | 1.0 | 0.16 |
| 74-87-3 | Chloromethane | 0.35 | J | 1.0 | 0.30 |
| 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.17 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.14 |
| 87-68-3 | Hexachlorobutadiene | 1.0 | U | 1.0 | 0.30 |
| 74-95-3 | Dibromomethane | 1.0 | U | 1.0 | 0.28 |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 1.0 | 0.15 |
| 75-71-8 | Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.31 |
| 100-41-4 | Ethylbenzene | 1.0 | U | 1.0 | 0.17 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.24 |
| 108-20-3 | Diisopropyl ether | 10 | U | 10 | 1.5 |
| 91-20-3 | Naphthalene | 1.0 | U | 1.0 | 0.24 |
| 179601-23-1 | m-Xylene & p-Xylene | 2.0 | U | 2.0 | 0.24 |
| 104-51-8 | n-Butylbenzene | 1.0 | U | 1.0 | 0.12 |
| 98-82-8 | Isopropylbenzene | 1.0 | U | 1.0 | 0.13 |
| 103-65-1 | n-Propylbenzene | 1.0 | U | 1.0 | 0.14 |
| 78-93-3 | 2-Butanone | 10 | U | 10 | 0.57 |
| 108-10-1 | 4-Methyl-2-pentanone | 10 | U | 10 | 0.32 |
| 135-98-8 | sec-Butylbenzene | 1.0 | U | 1.0 | 0.13 |
| 1634-04-4 | Methyl tert-butyl ether | 5.0 | U | 5.0 | 0.17 |
| 994-05-8 | Tert-amyl-methyl ether (TAME) | 5.0 | U | 5.0 | 0.067 |
| 75-09-2 | Methylene Chloride | 1.0 | U | 1.0 | 0.33 |
| 95-47-6 | o-Xylene | 1.0 | U | 1.0 | 0.14 |
| 100-42-5 | Styrene | 1.0 | U | 1.0 | 0.11 |
| 637-92-3 | Ethyl-t-butyl ether (ETBE) | 5.0 | U | 5.0 | 0.11 |
| 98-06-6 | tert-Butylbenzene | 1.0 | U | 1.0 | 0.13 |
| 127-18-4 | Tetrachloroethene | 1.0 | U | 1.0 | 0.29 |
| 108-88-3 | Toluene | 1.0 | U | 1.0 | 0.13 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.19 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.19 |
| 79-01-6 | Trichloroethene | 0.35 | J | 1.0 | 0.17 |
| 75-69-4 | Trichlorofluoromethane | 1.0 | U | 1.0 | 0.21 |
| 108-05-4 | Vinyl acetate | 2.0 | U | 2.0 | 0.19 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 1.0 | 0.22 |
| 75-65-0 | tert-Butyl alcohol | 50 | U | 50 | 3.9 |
| 1330-20-7 | Xylenes, Total | 2.0 | U | 2.0 | 0.28 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Client Sample ID: MT-MW05S-042512 Lab Sample ID: 240-10670-2

Matrix: Water Lab File ID: UXM5281.D

Analysis Method: 8260C Date Collected: 04/25/2012 10:51

Sample wt/vol: 5(mL) Date Analyzed: 04/30/2012 16:17

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 42171 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | 1.0 | U | 1.0 | 0.18 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 81 | | 63-129 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 89 | | 66-117 |
| 2037-26-5 | Toluene-d8 (Surr) | 86 | | 74-115 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 80 | | 75-121 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton | Job No.: 240-10670-1

SDG No.:

Client Sample ID: MT-MW05S-042512 | Lab Sample ID: 240-10670-2

Matrix: Water | Lab File ID: UXM5281.D

Analysis Method: 8260C | Date Collected: 04/25/2012 10:51

Sample wt/vol: 5(mL) | Date Analyzed: 04/30/2012 16:17

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 42171 | Units: ug/L

Number TICs Found: 1 | TIC Result Total: 2.5

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| 78-78-4 | Butane, 2-methyl- | 2.49 | 2.5 | T J N |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-10670-1

SDG No.:

Client Sample ID: TB-042512 | Lab Sample ID: 240-10670-1

Matrix: Water | Lab File ID: UXM5280.D

Analysis Method: 8260C | Date Collected: 04/25/2012 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 04/30/2012 15:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 42171 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.23 |
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 1.0 | 0.22 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.18 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0 | U | 1.0 | 0.28 |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.15 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.19 |
| 563-58-6 | 1,1-Dichloropropene | 1.0 | U | 1.0 | 0.13 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 1.0 | 0.17 |
| 96-18-4 | 1,2,3-Trichloropropane | 1.0 | U | 1.0 | 0.43 |
| 526-73-8 | 1,2,3-Trimethylbenzene | 5.0 | U | 5.0 | 0.0059 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.15 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.12 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 2.0 | U | 2.0 | 0.67 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.13 |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.22 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.18 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.14 |
| 142-28-9 | 1,3-Dichloropropane | 1.0 | U | 1.0 | 0.16 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.13 |
| 594-20-7 | 2,2-Dichloropropane | 1.0 | U | 1.0 | 0.13 |
| 110-75-8 | 2-Chloroethyl vinyl ether | 10 | U | 10 | 0.99 |
| 95-49-8 | 2-Chlorotoluene | 1.0 | U | 1.0 | 0.11 |
| 591-78-6 | 2-Hexanone | 10 | U | 10 | 0.41 |
| 108-86-1 | Bromobenzene | 1.0 | U | 1.0 | 0.13 |
| 74-97-5 | Bromochloromethane | 1.0 | U | 1.0 | 0.29 |
| 106-43-4 | 4-Chlorotoluene | 1.0 | U | 1.0 | 0.18 |
| 99-87-6 | p-Isopropyltoluene | 1.0 | U | 1.0 | 0.12 |
| 67-64-1 | Acetone | 10 | U | 10 | 1.1 |
| 71-43-2 | Benzene | 1.0 | U | 1.0 | 0.13 |
| 75-25-2 | Bromoform | 1.0 | U | 1.0 | 0.64 |
| 74-83-9 | Bromomethane | 1.0 | U | 1.0 | 0.41 |
| 75-15-0 | Carbon disulfide | 1.0 | U | 1.0 | 0.13 |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 1.0 | 0.13 |
| 108-90-7 | Chlorobenzene | 1.0 | U | 1.0 | 0.15 |
| 75-00-3 | Chloroethane | 1.0 | U | 1.0 | 0.29 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-10670-1

SDG No.:

Client Sample ID: TB-042512  Lab Sample ID: 240-10670-1

Matrix: Water  Lab File ID: UXM5280.D

Analysis Method: 8260C  Date Collected: 04/25/2012 00:00

Sample wt/vol: 5(mL)  Date Analyzed: 04/30/2012 15:54

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 42171  Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 67-66-3 | Chloroform | 1.0 | U | 1.0 | 0.16 |
| 74-87-3 | Chloromethane | 1.0 | U | 1.0 | 0.30 |
| 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.17 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.14 |
| 87-68-3 | Hexachlorobutadiene | 1.0 | U | 1.0 | 0.30 |
| 74-95-3 | Dibromomethane | 1.0 | U | 1.0 | 0.28 |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 1.0 | 0.15 |
| 75-71-8 | Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.31 |
| 100-41-4 | Ethylbenzene | 1.0 | U | 1.0 | 0.17 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.24 |
| 108-20-3 | Diisopropyl ether | 10 | U | 10 | 1.5 |
| 91-20-3 | Naphthalene | 1.0 | U | 1.0 | 0.24 |
| 179601-23-1 | m-Xylene & p-Xylene | 2.0 | U | 2.0 | 0.24 |
| 104-51-8 | n-Butylbenzene | 1.0 | U | 1.0 | 0.12 |
| 98-82-8 | Isopropylbenzene | 1.0 | U | 1.0 | 0.13 |
| 103-65-1 | n-Propylbenzene | 1.0 | U | 1.0 | 0.14 |
| 78-93-3 | 2-Butanone | 10 | U | 10 | 0.57 |
| 108-10-1 | 4-Methyl-2-pentanone | 10 | U | 10 | 0.32 |
| 135-98-8 | sec-Butylbenzene | 1.0 | U | 1.0 | 0.13 |
| 1634-04-4 | Methyl tert-butyl ether | 5.0 | U | 5.0 | 0.17 |
| 994-05-8 | Tert-amyl-methyl ether (TAME) | 5.0 | U | 5.0 | 0.067 |
| 75-09-2 | Methylene Chloride | 1.0 | U | 1.0 | 0.33 |
| 95-47-6 | o-Xylene | 1.0 | U | 1.0 | 0.14 |
| 100-42-5 | Styrene | 1.0 | U | 1.0 | 0.11 |
| 637-92-3 | Ethyl-t-butyl ether (ETBE) | 5.0 | U | 5.0 | 0.11 |
| 98-06-6 | tert-Butylbenzene | 1.0 | U | 1.0 | 0.13 |
| 127-18-4 | Tetrachloroethene | 1.0 | U | 1.0 | 0.29 |
| 108-88-3 | Toluene | 1.0 | U | 1.0 | 0.13 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.19 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.19 |
| 79-01-6 | Trichloroethene | 1.0 | U | 1.0 | 0.17 |
| 75-69-4 | Trichlorofluoromethane | 1.0 | U | 1.0 | 0.21 |
| 108-05-4 | Vinyl acetate | 2.0 | U | 2.0 | 0.19 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 1.0 | 0.22 |
| 75-65-0 | tert-Butyl alcohol | 50 | U | 50 | 3.9 |
| 1330-20-7 | Xylenes, Total | 2.0 | U | 2.0 | 0.28 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-10670-1

SDG No.:

Client Sample ID: TB-042512  Lab Sample ID: 240-10670-1

Matrix: Water  Lab File ID: UXM5280.D

Analysis Method: 8260C  Date Collected: 04/25/2012 00:00

Sample wt/vol: 5(mL)  Date Analyzed: 04/30/2012 15:54

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 42171  Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | 1.0 | U | 1.0 | 0.18 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 83 | | 63-129 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 88 | | 66-117 |
| 2037-26-5 | Toluene-d8 (Surr) | 85 | | 74-115 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 82 | | 75-121 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton | Job No.: 240-10670-1

SDG No.:

Client Sample ID: TB-042512 | Lab Sample ID: 240-10670-1

Matrix: Water | Lab File ID: UXM5280.D

Analysis Method: 8260C | Date Collected: 04/25/2012 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 04/30/2012 15:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 42171 | Units: ug/L

Number TICs Found: 1 | TIC Result Total: 2.5

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| 1066-40-6 | Silanol, trimethyl- | 4.60 | 2.5 | T J N |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-10670-1

SDG No.:

Client Sample ID: MT-MW01S-042512 | Lab Sample ID: 240-10670-3

Matrix: Water | Lab File ID: 20504027.D

Analysis Method: 8270C | Date Collected: 04/25/2012 13:35

Extract. Method: 3520C | Date Extracted: 05/01/2012 10:12

Sample wt/vol: 1000(mL) | Date Analyzed: 05/04/2012 17:29

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 42787 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 123-91-1 | 1,4-Dioxane | 1.0 | U | 1.0 | 0.49 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 321-60-8 | 2-Fluorobiphenyl (Surr) | 51 | | 28-110 |
| 367-12-4 | 2-Fluorophenol (Surr) | 61 | | 10-110 |
| 118-79-6 | 2,4,6-Tribromophenol (Surr) | 83 | | 22-120 |
| 4165-60-0 | Nitrobenzene-d5 (Surr) | 56 | | 27-111 |
| 4165-62-2 | Phenol-d5 (Surr) | 58 | | 10-110 |
| 1718-51-0 | Terphenyl-d14 (Surr) | 64 | | 37-119 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-10670-1

SDG No.:

Client Sample ID: MT-MW03S-042512 | Lab Sample ID: 240-10670-4

Matrix: Water | Lab File ID: 20504028.D

Analysis Method: 8270C | Date Collected: 04/25/2012 14:50

Extract. Method: 3520C | Date Extracted: 05/01/2012 10:12

Sample wt/vol: 960(mL) | Date Analyzed: 05/04/2012 17:48

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 42787 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 123-91-1 | 1,4-Dioxane | 1.0 | U | 1.0 | 0.51 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 321-60-8 | 2-Fluorobiphenyl (Surr) | 53 | | 28-110 |
| 367-12-4 | 2-Fluorophenol (Surr) | 61 | | 10-110 |
| 118-79-6 | 2,4,6-Tribromophenol (Surr) | 81 | | 22-120 |
| 4165-60-0 | Nitrobenzene-d5 (Surr) | 53 | | 27-111 |
| 4165-62-2 | Phenol-d5 (Surr) | 59 | | 10-110 |
| 1718-51-0 | Terphenyl-d14 (Surr) | 40 | | 37-119 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-10670-1

SDG No.:

Client Sample ID: MT-MW05S-042512 | Lab Sample ID: 240-10670-2

Matrix: Water | Lab File ID: 20504026.D

Analysis Method: 8270C | Date Collected: 04/25/2012 10:51

Extract. Method: 3520C | Date Extracted: 05/01/2012 10:12

Sample wt/vol: 960(mL) | Date Analyzed: 05/04/2012 17:10

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 42787 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 123-91-1 | 1,4-Dioxane | 1.0 | U | 1.0 | 0.51 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 321-60-8 | 2-Fluorobiphenyl (Surr) | 40 | | 28-110 |
| 367-12-4 | 2-Fluorophenol (Surr) | 6 | X | 10-110 |
| 118-79-6 | 2,4,6-Tribromophenol (Surr) | 15 | X | 22-120 |
| 4165-60-0 | Nitrobenzene-d5 (Surr) | 39 | | 27-111 |
| 4165-62-2 | Phenol-d5 (Surr) | 6 | X | 10-110 |
| 1718-51-0 | Terphenyl-d14 (Surr) | 71 | | 37-119 |

FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-10670-1

SDG No.:

Client Sample ID: MT-MW01S-042512 | Lab Sample ID: 240-10670-3

Matrix: Water | Lab File ID: YF042814.D

Analysis Method: 8015B | Date Collected: 04/25/2012 13:35

Sample wt/vol: 5(mL) | Date Analyzed: 04/28/2012 21:28

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VRX ID: 0.45(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 42055 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 8006-61-9 | Total Petroleum Hydrocarbons (C6-C10) GRO | 64 | J B | 100 | 25 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 98-08-8 | Trifluorotoluene (Surr) | 63 | | 10-150 |

FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-10670-1

SDG No.:

Client Sample ID: MT-MW03S-042512 | Lab Sample ID: 240-10670-4

Matrix: Water | Lab File ID: YF042815.D

Analysis Method: 8015B | Date Collected: 04/25/2012 14:50

Sample wt/vol: 5(mL) | Date Analyzed: 04/28/2012 22:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VRX ID: 0.45(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 42055 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 8006-61-9 | Total Petroleum Hydrocarbons (C6-C10) GRO | 49 | J B | 100 | 25 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 98-08-8 | Trifluorotoluene (Surr) | 65 | | 10-150 |

FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Client Sample ID: MT-MW05S-042512 Lab Sample ID: 240-10670-2

Matrix: Water Lab File ID: YF042813.D

Analysis Method: 8015B Date Collected: 04/25/2012 10:51

Sample wt/vol: 5(mL) Date Analyzed: 04/28/2012 20:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VRX ID: 0.45(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 42055 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 8006-61-9 | Total Petroleum Hydrocarbons (C6-C10) GRO | 52 | J B | 100 | 25 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 98-08-8 | Trifluorotoluene (Surr) | 66 | | 10-150 |

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-10670-1

SDG No.:

Client Sample ID: MT-MW05S-042512 | Lab Sample ID: 240-10670-2

Matrix: Water | Lab File ID: P6F04305.D

Analysis Method: 8015B | Date Collected: 04/25/2012 10:51

Extraction Method: 3520C | Date Extracted: 04/27/2012 10:39

Sample wt/vol: 1050(mL) | Date Analyzed: 04/30/2012 11:56

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-5 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 42140 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| STL00141 | Total Petroleum Hydrocarbons (C10-C32) DRO | 430 | J B | 480 | 230 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 111-84-2 | n-Nonane | 47 | | 10-110 |

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-10670-1

SDG No.:

Client Sample ID: MT-MW03S-042512 | Lab Sample ID: 240-10670-4

Matrix: Water | Lab File ID: P6F04307.D

Analysis Method: 8015B | Date Collected: 04/25/2012 14:50

Extraction Method: 3520C | Date Extracted: 04/27/2012 10:39

Sample wt/vol: 1030(mL) | Date Analyzed: 04/30/2012 12:58

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-5 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 42140 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| STL00141 | Total Petroleum Hydrocarbons (C10-C32) DRO | 290 | J B | 490 | 230 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 111-84-2 | n-Nonane | 45 | | 10-110 |

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-10670-1

SDG No.:

Client Sample ID: MT-MW01S-042512 | Lab Sample ID: 240-10670-3

Matrix: Water | Lab File ID: P6F04306.D

Analysis Method: 8015B | Date Collected: 04/25/2012 13:35

Extraction Method: 3520C | Date Extracted: 04/27/2012 10:39

Sample wt/vol: 960(mL) | Date Analyzed: 04/30/2012 12:27

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-5 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 42140 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| STL00141 | Total Petroleum Hydrocarbons (C10-C32) DRO | 540 | B | 520 | 250 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 111-84-2 | n-Nonane | 22 | | 10-110 |

TestAmerica Canton

Client Sample ID: MT-MW01S-042512

Dissolved HPLC - Mass. Spec.

| | | | | |
|---|---|---|---|---|
| **Lot-Sample #...:** G2E010442-002 | **Work Order #...:** MTAK21AA | | **Matrix.....:** WATER | |
| **Date Sampled...:** 04/25/12 | **Date Received..:** 04/28/12 | | | |
| **Prep Date.....:** 05/07/12 | **Analysis Date..:** 05/15/12 | | | |
| **Prep Batch #...:** 2128058 | | | | |
| **Dilution Factor:** 1 | **Method.....:** SW846 6850 | | | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---|---|---|---|---|
| Perchlorate | ND | 1.0 | ug/L | 0.082 |

TestAmerica Canton

Client Sample ID: MT-MW03S-042512

Dissolved HPLC - Mass. Spec.

| | | | | | |
|---|---|---|---|---|---|
| **Lot-Sample #...:** | G2E010442-003 | **Work Order #...:** | MTAK31AA | **Matrix.....:** | WATER |
| **Date Sampled...:** | 04/25/12 | **Date Received..:** | 04/28/12 | | |
| **Prep Date.....:** | 05/07/12 | **Analysis Date..:** | 05/15/12 | | |
| **Prep Batch #...:** | 2128058 | | | | |
| **Dilution Factor:** | 1 | **Method.....:** | SW846 6850 | | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---|---|---|---|---|
| Perchlorate | ND | 1.0 | ug/L | 0.082 |

TestAmerica Canton

Client Sample ID: MT-MW05S-042512

Dissolved HPLC - Mass. Spec.

| | | | | | |
|---|---|---|---|---|---|
| **Lot-Sample #...:** | G2E010442-001 | **Work Order #...:** | MTAK11AA | **Matrix.....:** | WATER |
| **Date Sampled...:** | 04/25/12 | **Date Received..:** | 04/28/12 | | |
| **Prep Date.....:** | 05/07/12 | **Analysis Date..:** | 05/15/12 | | |
| **Prep Batch #...:** | 2128058 | | | | |
| **Dilution Factor:** | 1 | **Method.....:** | SW846 6850 | | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---|---|---|---|---|
| Perchlorate | ND | 1.0 | ug/L | 0.082 |

# APPENDIX C

## SUPPORT DOCUMENTATION

# HOLDTIME

**SDG** 240-10670-1

| SORT | UNITS | NSAMPLE | LAB_ID | QC_TYPE | SAMP_DATE | EXTR_DATE | ANAL_DATE | SMP_EXTR | EXTR_ANL | SMP_ANL |
|---|---|---|---|---|---|---|---|---|---|---|
| HG | UG/L | MT-MW01S-042512 | 240-10670-3 | NM | 4/25/2012 | 4/27/2012 | 4/28/2012 | 2 | 1 | 3 |
| HG | UG/L | MT-MW03S-042512 | 240-10670-4 | NM | 4/25/2012 | 4/27/2012 | 4/28/2012 | 2 | 1 | 3 |
| HG | UG/L | MT-MW05S-042512 | 240-10670-2 | NM | 4/25/2012 | 4/27/2012 | 4/28/2012 | 2 | 1 | 3 |
| M | UG/L | MT-MW05S-042512 | 240-10670-2 | NM | 4/25/2012 | 4/27/2012 | 4/28/2012 | 2 | 1 | 3 |
| M | UG/L | MT-MW01S-042512 | 240-10670-3 | NM | 4/25/2012 | 4/27/2012 | 4/28/2012 | 2 | 1 | 3 |
| M | UG/L | MT-MW03S-042512 | 240-10670-4 | NM | 4/25/2012 | 4/27/2012 | 4/28/2012 | 2 | 1 | 3 |
| HGF | UG/L | MT-MW05S-042512 | 240-10670-2 | NM | 4/25/2012 | 4/27/2012 | 4/28/2012 | 2 | 1 | 3 |
| HGF | UG/L | MT-MW01S-042512 | 240-10670-3 | NM | 4/25/2012 | 4/27/2012 | 4/28/2012 | 2 | 1 | 3 |
| HGF | UG/L | MT-MW03S-042512 | 240-10670-4 | NM | 4/25/2012 | 4/27/2012 | 4/28/2012 | 2 | 1 | 3 |
| MF | UG/L | MT-MW01S-042512 | 240-10670-3 | NM | 4/25/2012 | 4/27/2012 | 4/28/2012 | 2 | 1 | 3 |
| MF | UG/L | MT-MW05S-042512 | 240-10670-2 | NM | 4/25/2012 | 4/27/2012 | 4/28/2012 | 2 | 1 | 3 |
| MF | UG/L | MT-MW03S-042512 | 240-10670-4 | NM | 4/25/2012 | 4/27/2012 | 4/28/2012 | 2 | 1 | 3 |
| PCL | UG/L | MT-MW05S-042512 | 240-10670-2 | NM | 4/25/2012 | 5/7/2012 | 5/15/2012 | 12 | 8 | 20 |
| PCL | UG/L | MT-MW03S-042512 | 240-10670-4 | NM | 4/25/2012 | 5/7/2012 | 5/15/2012 | 12 | 8 | 20 |
| PCL | UG/L | MT-MW01S-042512 | 240-10670-3 | NM | 4/25/2012 | 5/7/2012 | 5/15/2012 | 12 | 8 | 20 |

| SORT | UNITS | NSAMPLE | LAB_ID | QC_TYPE | SAMP_DATE | EXTR_DATE | ANAL_DATE | SMP_EXTR | EXTR_ANL | SMP_ANL |
|---|---|---|---|---|---|---|---|---|---|---|
| OS | UG/L | MT-MW01S-042512 | 240-10670-3 | NM | 4/25/2012 | 5/1/2012 | 5/4/2012 | 6 | 3 | 9 |
| OS | UG/L | MT-MW05S-042512 | 240-10670-2 | NM | 4/25/2012 | 5/1/2012 | 5/4/2012 | 6 | 3 | 9 |
| OS | UG/L | MT-MW03S-042512 | 240-10670-4 | NM | 4/25/2012 | 5/1/2012 | 5/4/2012 | 6 | 3 | 9 |
| OV | UG/L | TB-042512 | 240-10670-1 | NM | 4/25/2012 | 4/30/2012 | 4/30/2012 | 5 | 0 | 5 |
| OV | UG/L | MT-MW01S-042512 | 240-10670-3 | NM | 4/25/2012 | 4/30/2012 | 4/30/2012 | 5 | 0 | 5 |
| OV | UG/L | MT-MW03S-042512 | 240-10670-4 | NM | 4/25/2012 | 4/30/2012 | 4/30/2012 | 5 | 0 | 5 |
| OV | UG/L | MT-MW05S-042512 | 240-10670-2 | NM | 4/25/2012 | 4/30/2012 | 4/30/2012 | 5 | 0 | 5 |
| OV | UG/L | TB-042512 | 240-10670-1 | TB | 4/25/2012 | 4/30/2012 | 4/30/2012 | 5 | 0 | 5 |
| DRO | UG/L | MT-MW01S-042512 | 240-10670-3 | NM | 4/25/2012 | 4/27/2012 | 4/30/2012 | 2 | 3 | 5 |
| DRO | UG/L | MT-MW05S-042512 | 240-10670-2 | NM | 4/25/2012 | 4/27/2012 | 4/30/2012 | 2 | 3 | 5 |
| DRO | UG/L | MT-MW03S-042512 | 240-10670-4 | NM | 4/25/2012 | 4/27/2012 | 4/30/2012 | 2 | 3 | 5 |
| GRO | UG/L | MT-MW05S-042512 | 240-10670-2 | NM | 4/25/2012 | 4/28/2012 | 4/28/2012 | 3 | 0 | 3 |
| GRO | UG/L | MT-MW03S-042512 | 240-10670-4 | NM | 4/25/2012 | 4/28/2012 | 4/28/2012 | 3 | 0 | 3 |
| GRO | UG/L | MT-MW01S-042512 | 240-10670-3 | NM | 4/25/2012 | 4/28/2012 | 4/28/2012 | 3 | 0 | 3 |

# Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

| Client Contact | | | | |
|---|---|---|---|---|
| Company Name: Tetra Tech INC. | Client Project Manager: Tony Aparavasse | Site Contact: Walt Payn | Lab Contact: Pat O'meara | COC No: |
| Address: 20251 Century Blvd. | Telephone: 301 528-3021 | Telephone: 301 991-3914 | Telephone: 330 497-9396 | 1 of 1 COCs |
| City/State/Zip: Germantown MD 20874 | Email: | Analysis Turnaround Time (in BUS days) | Analyses | For lab use only |
| Phone: 301 528-3021 | | TAT if different from below: ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day | | Walk-in client: ☐ Lab pickup: ☐ Lab sampling: ☐ Job/SDG No.: |
| Project Name: MSB-Ground Water Sampling | Method of Shipment/Carrier: Fed EX | | | |
| Project Number: 112JC04021-02 | Shipping/Tracking No: | | | |
| PO# | | | | |

| Sample Identification | Sample Date | Sample Time | Matrix: Air | Aqueous | Sediment | Solid | Other: | Containers & Preservatives: H2SO4 | HNO3 | HCl | NaOH | ZnAc/NaOH | Unpres | Other: | Filtered Sample (Y/N) | Composite C / Grab G | VOCs | Total PPM | Diss PPM | 1,4 Dioxane | DRO | GRO | Perchlorate | Sample Specific Notes / Special Instructions: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TB-042512 | 4-25-12 | — | | X | | | | | | 2 | | | | | N | G | X | | | | | | | |
| MT-MW05s-042512 | | 1051 | | X | | | | | 2 | 5 | | | 5 | | | | X | X | X | X | X | X | X | |
| MT-MW01s-042512 | | 1335 | | X | | | | | 2 | 5 | | | 5 | | | | X | X | X | X | X | X | X | |
| MT-MW03s-042512 | | 1450 | | X | | | | | 2 | 5 | | | 5 | | | | X | X | X | X | X | X | X | |

Loc: 240
10670
US

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

| Relinquished by: | Company: | Date/Time: | Received by: | Company: | Date/Time: |
|---|---|---|---|---|---|
| Relinquished by: | Company: | Date/Time: | Received by: | Company: | Date/Time: |
| Relinquished by: | Company: | Date/Time: | Received in Laboratory by: | Company: | Date/Time: |
| | Tt INC. | 4-25-12 / 1520 | | TestAmerica | 4/25/12 / 1520 |
| | TestAmerica | 4/25/12 / 1725 | | | |
| | | | | TANC | 4/26/12 9:15 |

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TAL-0018 (1008)

**TestAmerica North Canton Sample Receipt Form/Narrative** Login # : 10440

Client Tetra Tech Site Name _____ By: _____ (Signature)

Cooler Received on 4/26/12 Opened on 4/26/12

FedEx: 1st Grd (Exp) UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

TestAmerica Cooler # _____ Foam Box Client Cooler Box Other _____

Packing material used: ~~Bubble Wrap~~ Foam Plastic Bag None Other _____

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

| | | | | |
|---|---|---|---|---|
| IR GUN# 1 | (CF -2°C) | Observed Sample Temp._____°C | Corrected Sample Temp._____°C | |
| IR GUN# 4G | (CF -1°C) | Observed Sample Temp._____°C | Corrected Sample Temp._____°C | ~~Multiple~~ on Back |
| (IR GUN# ~~5G~~) | (CF -1°C) | Observed Sample Temp._____°C | Corrected Sample Temp._____°C | |
| IR GUN# 6Y | (CF -2°C) | Observed Sample Temp._____°C | Corrected Sample Temp._____°C | |

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 2 (Yes) No
   -Were custody seals on the outside of the cooler(s) signed & dated? (Yes) No NA
   -Were custody seals on the bottle(s)? Yes (No)
3. Shippers' packing slip attached to the cooler(s)? (Yes) No
4. Did custody papers accompany the sample(s)? (Yes) No
5. Were the custody papers relinquished & signed in the appropriate place? (Yes) No
6. Did all bottles arrive in good condition (Unbroken)? (Yes) No
7. Could all bottle labels be reconciled with the COC? (Yes) No
8. Were correct bottle(s) used for the test(s) indicated? (Yes) No
9. Sufficient quantity received to perform indicated analyses? (Yes) No
10. Were sample(s) at the correct pH upon receipt? (Yes) No NA
11. Were VOAs on the COC? (Yes) No
12. Were air bubbles >6 mm in any VOA vials? Yes (No) NA
13. Was a trip blank present in the cooler(s)? (Yes) No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

**14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES**

**15. SAMPLE CONDITION**

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

## 16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). Nitric Acid Lot# 110410-HNO3; Sulfuric Acid Lot# 041911-H2SO4; Sodium Hydroxide Lot# 121809 - NaOH, Hydrochloric Acid Lot# 041911-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-(CH3COO)2ZN/NaOH. What time was preservative added to sample(s)? _____

| Client ID | pH | Date | Initials |
|---|---|---|---|
| MW05S | <2 | 4/27/12 | |
| MW01S | <2 | | |
| MW02S | <2 | | |

| Cooler # | Observed Sample Temp. °C | Corrected Sample Temp. °C | IR # | Coolant |
|---|---|---|---|---|
| Client Cooler | 1.4 | 0.4 | SG | Ice |
| | 1.5 | 0.5 | | |

# Login Sample Receipt Checklist

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-10670-1

**Login Number: 10670**
**List Number: 1**
**Creator: Sutek, Nick**

**List Source: TestAmerica Canton**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the sample IDs on the containers and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

## CASE NARRATIVE

## Client: Tetra Tech, Inc formerly Tetra Tech NUS

## Project: MSA Groundwater Sampling

## Report Number: 240-10670-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

The Perchlorate analysis was performed at the TestAmerica West Sacramento Laboratory.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

**RECEIPT**

The samples were received on 04/26/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 0.4 and 0.5 C.

**VOLATILE ORGANIC COMPOUNDS (GC MS)**

Samples TB-042512 (240-10670-1), MT-MW05S-042512 (240-10670-2), MT-MW01S-042512 (240-10670-3) and MT-MW03S-042512 (240-10670-4) were analyzed for volatile organic compounds (GC MS) in accordance with EPA SW-846 Method 8260C. The samples were analyzed on 04/30/2012.

1,2,3-Trichlorobenzene was detected in method blank MB 240-42171/5 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

2-Chloroethyl vinyl ether failed the recovery criteria low for the MS/MSD of sample 240-10350-5 in batch 240-42171. tert-Butyl alcohol exceeded the rpd limit.

Refer to the QC report for details.

No other difficulties were encountered during the VOCs analyses. All other quality control parameters were within the acceptance limits.

**SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)**

Samples MT-MW05S-042512 (240-10670-2), MT-MW01S-042512 (240-10670-3) and MT-MW03S-042512 (240-10670-4) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 05/01/2012 and analyzed on 05/04/2012.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out and no corrective action is required.

2,4,6-Tribromophenol (Surr), 2-Fluorophenol (Surr) and Phenol-d5 (Surr) failed the surrogate recovery criteria low for MT-MW05S-042512 (240-10670-2). Refer to the QC report for details.

Acid surrogates were out of control limits in sample MT-MW05S-042512 (240-10670-2). Since only Base Neutral compounds were requested no corrective action was necessary.

No other difficulties were encountered during the SVOCs analyses. All other quality control parameters were within the acceptance limits.

**GASOLINE RANGE ORGANICS (GRO)**
Samples MT-MW05S-042512 (240-10670-2), MT-MW01S-042512 (240-10670-3) and MT-MW03S-042512 (240-10670-4) were analyzed for gasoline range organics (GRO) in accordance with EPA SW-846 Method 8015B - GRO. The samples were analyzed on 04/28/2012.

Total Petroleum Hydrocarbons (C6-C10) was detected in method blank MB 240-42055/7 at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

No other difficulties were encountered during the GRO analyses. All other quality control parameters were within the acceptance limits.

**DIESEL RANGE ORGANICS (DRO)**
Samples MT-MW05S-042512 (240-10670-2), MT-MW01S-042512 (240-10670-3) and MT-MW03S-042512 (240-10670-4) were analyzed for diesel range organics (DRO) in accordance with EPA SW-846 Method 8015B - DRO. The samples were prepared on 04/27/2012 and analyzed on 04/30/2012.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required.

Total Petroleum Hydrocarbons (C10-C32) was detected in method blank MB 240-41890/15-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

No other difficulties were encountered during the DRO analyses. All other quality control parameters were within the acceptance limits.

**DISSOLVED METALS (ICPMS)**
Samples MT-MW05S-042512 (240-10670-2), MT-MW01S-042512 (240-10670-3) and MT-MW03S-042512 (240-10670-4) were analyzed for dissolved metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 04/27/2012 and analyzed on 04/28/2012.

No difficulties were encountered during the metals analyses. All quality control parameters were within the acceptance limits.

**TOTAL RECOVERABLE METALS (ICPMS)**
Samples MT-MW05S-042512 (240-10670-2), MT-MW01S-042512 (240-10670-3) and MT-MW03S-042512 (240-10670-4) were analyzed for total recoverable metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 04/27/2012 and analyzed on 04/28/2012.

Several analytes were detected in method blank MB 240-41956/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

No other difficulties were encountered during the metals analyses. All other quality control parameters were within the acceptance limits.

**DISSOLVED MERCURY**
Samples MT-MW05S-042512 (240-10670-2), MT-MW01S-042512 (240-10670-3) and MT-MW03S-042512 (240-10670-4) were analyzed for dissolved mercury (CVAA) in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 04/27/2012 and analyzed on 04/28/2012.

No difficulties were encountered during the mercury analyses. All quality control parameters were within the acceptance limits.

**TOTAL MERCURY**
Samples MT-MW05S-042512 (240-10670-2), MT-MW01S-042512 (240-10670-3) and MT-MW03S-042512 (240-10670-4) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 04/27/2012 and analyzed on 04/28/2012.

Mercury was detected in method blank MB 240-41887/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

No other difficulties were encountered during the mercury analyses. All other quality control parameters were within the acceptance limits.

## SAMPLE SUMMARY

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-10670-1

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|---|---|---|---|---|
| 240-10670-1TB | TB-042512 | Water | 04/25/2012 0000 | 04/26/2012 0915 |
| 240-10670-2 | MT-MW05S-042512 | Water | 04/25/2012 1051 | 04/26/2012 0915 |
| 240-10670-3 | MT-MW01S-042512 | Water | 04/25/2012 1335 | 04/26/2012 0915 |
| 240-10670-4 | MT-MW03S-042512 | Water | 04/25/2012 1450 | 04/26/2012 0915 |

# METHOD SUMMARY

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-10670-1

| Description | Lab Location | Method | Preparation Method |
|---|---|---|---|
| **Matrix Water** | | | |
| Volatile Organic Compounds by GC/MS | TAL NC | SW846 8260C | |
| Purge and Trap | TAL NC | | SW846 5030C |
| Semivolatile Organic Compounds (GC/MS) | TAL NC | SW846 8270C | |
| Liquid-Liquid Extraction (Continuous) | TAL NC | | SW846 3520C |
| Gasoline Range Organics - (GC) | TAL NC | SW846 8015B | |
| Purge and Trap | TAL NC | | SW846 5030B |
| Diesel Range Organics (DRO) (GC) | TAL NC | SW846 8015B | |
| Liquid-Liquid Extraction (Continuous) | TAL NC | | SW846 3520C |
| Metals (ICP/MS) | TAL NC | SW846 6020 | |
| Preparation, Total Recoverable or Dissolved Metals | TAL NC | | SW846 3005A |
| Metals (ICP/MS) | TAL NC | SW846 6020 | |
| Preparation, Total Recoverable or Dissolved Metals | TAL NC | | SW846 3005A |
| Sample Filtration, Field | | | FIELD_FLTRD |
| Mercury (CVAA) | TAL NC | SW846 7470A | |
| Preparation, Mercury | TAL NC | | SW846 7470A |
| Mercury (CVAA) | TAL NC | SW846 7470A | |
| Preparation, Mercury | TAL NC | | SW846 7470A |
| Sample Filtration, Field | | | FIELD_FLTRD |
| General Sub Contract Method | TAL WSC | Subcontract | |

**Lab References:**

TAL NC = TestAmerica Canton

TAL WSC = TestAmerica West Sacramento

**Method References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

## DATA REPORTING QUALIFIERS

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-10670-1

| Lab Section | Qualifier | Description |
|---|---|---|
| GC/MS VOA | | |
| | J | Indicates an Estimated Value for TICs |
| | U | Indicates the analyte was analyzed for but not detected. |
| | F | MS or MSD exceeds the control limits |
| | T | Result is a tentatively identified compound (TIC) and an estimated value. |
| | J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| | F | RPD of the MS and MSD exceeds the control limits |
| | N | This flag indicates the presumptive evidence of a compound. |
| GC/MS Semi VOA | | |
| | U | Indicates the analyte was analyzed for but not detected. |
| | X | Surrogate is outside control limits |
| GC VOA | | |
| | B | Compound was found in the blank and sample. |
| | J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| GC Semi VOA | | |
| | B | Compound was found in the blank and sample. |
| | U | Indicates the analyte was analyzed for but not detected. |
| | J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

## DATA REPORTING QUALIFIERS

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-10670-1

| Lab Section | Qualifier | Description |
|---|---|---|
| Metals | | |
| | B | Compound was found in the blank and sample. |
| | U | Indicates the analyte was analyzed for but not detected. |
| | J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

# Method 8260C

## Volatile Organic Compounds (GC/MS) by Method 8260C

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Lab File ID: BFB2914.D BFB Injection Date: 04/29/2012

Instrument ID: A3UX16 BFB Injection Time: 15:11

Analysis Batch No.: 42092

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 50 | 15.0 - 40.0 % of mass 95 | 21.4 | |
| 75 | 30.0 - 60.0 % of mass 95 | 55.5 | |
| 95 | Base Peak, 100% relative abundance | 100.0 | |
| 96 | 5.0 - 9.0 % of mass 95 | 6.3 | |
| 173 | Less than 2.0 % of mass 174 | 0.3 | (0.4)1 |
| 174 | 50.0 - 120.00 % of mass 95 | 67.2 | |
| 175 | 5.0 - 9.0 % of mass 174 | 4.9 | (7.4)1 |
| 176 | 95.0 - 101.0 % of mass 174 | 65.5 | (97.4)1 |
| 177 | 5.0 - 9.0 % of mass 176 | 4.1 | (6.3)2 |

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | STD8260 240-42092/2 | UXM5239.D | 04/29/2012 | 15:41 |
| | STD8260 240-42092/3 | UXM5240.D | 04/29/2012 | 16:03 |
| | STD8260 240-42092/4 | UXM5241.D | 04/29/2012 | 16:26 |
| | STD8260 240-42092/5 | UXM5242.D | 04/29/2012 | 16:49 |
| | STD8260 240-42092/6 | UXM5243.D | 04/29/2012 | 17:12 |
| | STD8260 240-42092/7 | UXM5244.D | 04/29/2012 | 17:34 |
| | STD1 240-42092/8 | UXM5245.D | 04/29/2012 | 17:57 |
| | STD2 240-42092/9 | UXM5246.D | 04/29/2012 | 18:20 |
| | STD3 240-42092/10 | UXM5247.D | 04/29/2012 | 18:42 |
| | STD4 240-42092/11 | UXM5248.D | 04/29/2012 | 19:05 |
| | STD5 240-42092/12 | UXM5249.D | 04/29/2012 | 19:28 |
| | STD6 240-42092/13 | UXM5250.D | 04/29/2012 | 19:50 |
| | ICV 240-42092/14 | UXM5251.D | 04/29/2012 | 20:13 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-10670-1 Analy Batch No.: 42092

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2012 15:41 Calibration End Date: 04/29/2012 17:34 Calibration ID: 8426

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD8260 240-42092/7 | UXM5244.D |
| Level 2 | STD8260 240-42092/6 | UXM5243.D |
| Level 3 | STD8260 240-42092/5 | UXM5242.D |
| Level 4 | STD8260 240-42092/4 | UXM5241.D |
| Level 5 | STD8260 240-42092/3 | UXM5240.D |
| Level 6 | STD8260 240-42092/2 | UXM5239.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Dichlorodifluoromethane | 0.2475<br>0.3038 | 0.2649 | 0.2905 | 0.2889 | 0.3016 | Ave | | 0.2829 | | | 0.1000 | 7.8 | | 15.0 | | | |
| Chloromethane | 0.4695<br>0.4320 | 0.4893 | 0.4830 | 0.4487 | 0.4452 | Ave | | 0.4613 | | | 0.1000 | 4.9 | | 15.0 | | | |
| Vinyl chloride | 0.4202<br>0.4041 | 0.4409 | 0.4365 | 0.4256 | 0.4202 | Ave | | 0.4246 | | | 0.1000 | 3.1 | | 15.0 | | | |
| Bromomethane | 0.1730<br>0.1493 | 0.1760 | 0.1733 | 0.1676 | 0.1710 | Ave | | 0.1684 | | | 0.0500 | 5.8 | | 15.0 | | | |
| Chloroethane | 0.2470<br>0.2229 | 0.2473 | 0.2344 | 0.2374 | 0.2336 | Ave | | 0.2371 | | | | 3.9 | | 15.0 | | | |
| Trichlorofluoromethane | 0.2704<br>0.3132 | 0.3068 | 0.3031 | 0.3070 | 0.3204 | Ave | | 0.3035 | | | 0.1000 | 5.7 | | 15.0 | | | |
| ~~Acrolein~~ | 0.0469<br>0.0473 | 0.0483 | 0.0502 | 0.0508 | 0.0498 | Ave | | 0.~~0489~~ | | | | 3.3 | | 15.0 | | | |
| 1,1-Dichloroethene | 0.2340<br>0.2501 | 0.2402 | 0.2424 | 0.2499 | 0.2511 | Ave | | 0.2446 | | | 0.1000 | 2.8 | | 15.0 | | | |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 0.1512<br>0.1622 | 0.1553 | 0.1500 | 0.1479 | 0.1608 | Ave | | 0.1546 | | | 0.0500 | 3.8 | | 15.0 | | | |
| Acetone | 0.2162<br>0.0864 | 0.1595 | 0.1181 | 0.1099 | 0.0970 | Lin1 | 0.2842 | 0.0868 | | | 0.0500 | | | | 0.9960 | | 0.9950 |
| Iodomethane | 0.3345<br>0.3288 | 0.3415 | 0.3505 | 0.3469 | 0.3574 | Ave | | 0.3433 | | | | 3.1 | | 15.0 | | | |
| Carbon disulfide | 0.6238<br>0.8183 | 0.6509 | 0.6976 | 0.7556 | 0.8104 | Ave | | 0.7261 | | | 0.1000 | 11.0 | | 15.0 | | | |
| ~~Acetonitrile~~ | 0.0391<br>0.0299 | 0.0368 | 0.0353 | 0.0335 | 0.0333 | Ave | | ~~0.0346~~ | | | | 9.2 | | 15.0 | | | |
| Methyl acetate | 0.2451<br>0.2094 | 0.2377 | 0.2404 | 0.2374 | 0.2264 | Ave | | 0.2327 | | | 0.1000 | 5.6 | | 15.0 | | | |
| Methylene Chloride | 0.4532<br>0.2926 | 0.3791 | 0.3449 | 0.3188 | 0.3120 | Lin1 | 0.1763 | 0.2950 | | | 0.1000 | | | | 0.9990 | | 0.9950 |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-10670-1 Analy Batch No.: 42092

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2012 15:41 Calibration End Date: 04/29/2012 17:34 Calibration ID: 8426

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| tert-Butyl alcohol | 0.0187<br>0.0171 | 0.0206 | 0.0189 | 0.0189 | 0.0192 | Ave | | 0.0189 | | | | 6.0 | | 15.0 | | | |
| Acrylonitrile | 0.1145<br>0.1022 | 0.1105 | 0.1139 | 0.1170 | 0.1105 | Ave | | 0.1114 | | | | 4.6 | | 15.0 | | | |
| trans-1,2-Dichloroethene | 0.2839<br>0.2770 | 0.2945 | 0.2944 | 0.2851 | 0.2889 | Ave | | 0.2873 | | | 0.1000 | 2.4 | | 15.0 | | | |
| Methyl tert-butyl ether | 0.8507<br>0.8216 | 0.8205 | 0.8460 | 0.8461 | 0.8566 | Ave | | 0.8402 | | | 0.1000 | 1.8 | | 15.0 | | | |
| Hexane | 0.0529<br>0.0560 | 0.0521 | 0.0488 | 0.0501 | 0.0574 | Ave | | 0.0529 | | | | 6.3 | | 15.0 | | | |
| 1,1-Dichloroethane | 0.5478<br>0.5504 | 0.5906 | 0.5789 | 0.5698 | 0.5773 | Ave | | 0.5691 | | | 0.1000 | 3.0 | | 15.0 | | | |
| Vinyl acetate | 0.0438<br>0.0547 | 0.0420 | 0.0492 | 0.0562 | 0.0568 | Ave | | 0.0505 | | | | 13.0 | | 15.0 | | | |
| 2-Butanone | 0.1431<br>0.1214 | 0.1392 | 0.1413 | 0.1375 | 0.1314 | Ave | | 0.1356 | | | 0.0500 | 5.9 | | 15.0 | | | |
| cis-1,2-Dichloroethene | 0.3153<br>0.3006 | 0.3006 | 0.3107 | 0.3096 | 0.3157 | Ave | | 0.3087 | | | 0.1000 | 2.2 | | 15.0 | | | |
| 2,2-Dichloropropane | 0.2459<br>0.3076 | 0.2799 | 0.2938 | 0.3057 | 0.3261 | Ave | | 0.2932 | | | | 9.5 | | 15.0 | | | |
| Bromochloromethane | 0.1255<br>0.1262 | 0.1225 | 0.1298 | 0.1329 | 0.1330 | Ave | | 0.1283 | | | | 3.3 | | 15.0 | | | |
| Tetrahydrofuran | 0.0875<br>0.0744 | 0.0826 | 0.0830 | 0.0854 | 0.0842 | Ave | | 0.0828 | | | | 5.4 | | 15.0 | | | |
| Chloroform | 0.5169<br>0.5153 | 0.5299 | 0.5388 | 0.5290 | 0.5477 | Ave | | 0.5296 | | | | 2.4 | | 15.0 | | | |
| 1,1,1-Trichloroethane | 0.3234<br>0.3831 | 0.3500 | 0.3674 | 0.3840 | 0.3986 | Ave | | 0.3678 | | | 0.1000 | 7.4 | | 15.0 | | | |
| Cyclohexane | 0.4217<br>0.4832 | 0.4863 | 0.4431 | 0.4476 | 0.4809 | Ave | | 0.4605 | | | 0.1000 | 5.8 | | 15.0 | | | |
| 1,1-Dichloropropene | 0.4359<br>0.4194 | 0.4199 | 0.4223 | 0.4252 | 0.4356 | Ave | | 0.4264 | | | | 1.8 | | 15.0 | | | |
| Carbon tetrachloride | 0.2456<br>0.3072 | 0.2543 | 0.2617 | 0.2867 | 0.3066 | Ave | | 0.2770 | | | 0.1000 | 9.7 | | 15.0 | | | |
| 1,2-Dichloroethane | 0.4838<br>0.4518 | 0.4761 | 0.4673 | 0.4667 | 0.4711 | Ave | | 0.4694 | | | 0.1000 | 2.3 | | 15.0 | | | |
| Benzene | 1.2256<br>1.2453 | 1.2535 | 1.2750 | 1.2420 | 1.2666 | Ave | | 1.2513 | | | 0.5000 | 1.4 | | 15.0 | | | |
| Trichloroethene | 0.2714<br>0.2655 | 0.2671 | 0.2733 | 0.2695 | 0.2719 | Ave | | 0.2698 | | | 0.2000 | 1.1 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-10670-1 Analy Batch No.: 42092

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2012 15:41 Calibration End Date: 04/29/2012 17:34 Calibration ID: 8426

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Methylcyclohexane | 0.3056<br>0.3781 | 0.3553 | 0.3486 | 0.3331 | 0.3656 | Ave | | 0.3477 | | | 0.1000 | 7.4 | | 15.0 | | | |
| 1,2-Dichloropropane | 0.2994<br>0.3048 | 0.3058 | 0.3148 | 0.3132 | 0.3116 | Ave | | 0.3083 | | | 0.1000 | 1.9 | | 15.0 | | | |
| Dibromomethane | 0.1675<br>0.1555 | 0.1521 | 0.1644 | 0.1597 | 0.1644 | Ave | | 0.1606 | | | | 3.7 | | 15.0 | | | |
| ~~1,4-Dioxane~~ | 0.0023<br>0.0020 | 0.0024 | 0.0025 | 0.0025 | 0.0025 | Ave | | ~~0.0024~~ | | | | 8.2 | | 15.0 | | | |
| Bromodichloromethane | 0.2586<br>0.3533 | 0.2732 | 0.3036 | 0.3210 | 0.3455 | Ave | | 0.3092 | | | 0.1000 | 12.0 | | 15.0 | | | |
| 2-Chloroethyl vinyl ether | 0.1532<br>0.1582 | 0.1459 | 0.1670 | 0.1699 | 0.1653 | Ave | | 0.1599 | | | | 5.8 | | 15.0 | | | |
| cis-1,3-Dichloropropene | 0.3061<br>0.4576 | 0.3249 | 0.3845 | 0.4238 | 0.4469 | Lin1 | -0.212 | 0.4568 | | | 0.1500 | | | | 0.9990 | | 0.9950 |
| 4-Methyl-2-pentanone | 0.2451<br>0.2575 | 0.2540 | 0.2759 | 0.2780 | 0.2752 | Ave | | 0.2643 | | | 0.0500 | 5.3 | | 15.0 | | | |
| Toluene | 1.7728<br>1.9294 | 1.8880 | 1.8619 | 1.8474 | 1.9604 | Ave | | 1.8766 | | | 0.4000 | 3.5 | | 15.0 | | | |
| trans-1,3-Dichloropropene | 0.3835<br>0.6056 | 0.4211 | 0.4964 | 0.5287 | 0.6010 | Lin1 | -0.314 | 0.6041 | | | 0.1000 | | | | 0.9980 | | 0.9950 |
| Ethyl methacrylate | 0.4455<br>0.5778 | 0.5229 | 0.5765 | 0.5788 | 0.6242 | Ave | | 0.5543 | | | | 11.0 | | 15.0 | | | |
| 1,1,2-Trichloroethane | 0.3279<br>0.3212 | 0.3141 | 0.3421 | 0.3341 | 0.3447 | Ave | | 0.3307 | | | 0.1000 | 3.6 | | 15.0 | | | |
| 1,3-Dichloropropane | 0.6891<br>0.6635 | 0.6944 | 0.7152 | 0.6928 | 0.7223 | Ave | | 0.6962 | | | | 3.0 | | 15.0 | | | |
| Tetrachloroethene | 0.2452<br>0.2600 | 0.2630 | 0.2668 | 0.2612 | 0.2738 | Ave | | 0.2617 | | | 0.2000 | 3.6 | | 15.0 | | | |
| 2-Hexanone | 0.2323<br>0.2576 | 0.2818 | 0.2796 | 0.2822 | 0.2852 | Ave | | 0.2698 | | | 0.0500 | 7.8 | | 15.0 | | | |
| Dibromochloromethane | 0.1872<br>0.3114 | 0.2160 | 0.2464 | 0.2709 | 0.3057 | Lin1 | -0.171 | 0.3097 | | | | | | | 0.9980 | | 0.9950 |
| 1,2-Dibromoethane | 0.2962<br>0.3220 | 0.3089 | 0.3344 | 0.3261 | 0.3462 | Ave | | 0.3223 | | | | 5.5 | | 15.0 | | | |
| Chlorobenzene | 1.0759<br>1.0855 | 1.1279 | 1.1114 | 1.0941 | 1.1299 | Ave | | 1.1041 | | | 0.3000 | 2.0 | | 15.0 | | | |
| 1,1,1,2-Tetrachloroethane | 0.2665<br>0.3469 | 0.2706 | 0.3066 | 0.3249 | 0.3538 | Ave | | 0.3116 | | | | 12.0 | | 15.0 | | | |
| Ethylbenzene | 0.5227<br>0.5869 | 0.5825 | 0.6026 | 0.5858 | 0.6163 | Ave | | 0.5828 | | | | 5.5 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-10670-1 Analy Batch No.: 42092

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2012 15:41 Calibration End Date: 04/29/2012 17:34 Calibration ID: 8426

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| m-Xylene & p-Xylene | 0.6757<br>0.7551 | 0.7220 | 0.7191 | 0.7176 | 0.7638 | Ave | | 0.7256 | | | | 4.3 | | 15.0 | | | |
| o-Xylene | 0.6806<br>0.7276 | 0.7176 | 0.7304 | 0.7130 | 0.7551 | Ave | | 0.7207 | | | | 3.4 | | 15.0 | | | |
| Styrene | 1.0565<br>1.2902 | 1.1310 | 1.1966 | 1.1904 | 1.2870 | Ave | | 1.1920 | | | 0.3000 | 7.6 | | 15.0 | | | |
| Bromoform | 0.0815<br>0.1487 | 0.0938 | 0.1133 | 0.1171 | 0.1413 | Lin1 | -0.094 | 0.1455 | | | 0.1000 | | | | 0.9950 | | 0.9950 |
| Isopropylbenzene | 1.5492<br>1.8304 | 1.6861 | 1.6648 | 1.6944 | 1.8507 | Ave | | 1.7126 | | | 0.1000 | 6.6 | | 15.0 | | | |
| 1,1,2,2-Tetrachloroethane | 0.8553<br>0.8338 | 0.9184 | 0.9469 | 0.9293 | 0.9310 | Ave | | 0.9025 | | | 0.3000 | 5.1 | | 15.0 | | | |
| Bromobenzene | 0.8074<br>0.7779 | 0.8287 | 0.8325 | 0.8084 | 0.8409 | Ave | | 0.8159 | | | | 2.8 | | 15.0 | | | |
| 1,2,3-Trichloropropane | 0.2880<br>0.2558 | 0.2803 | 0.2925 | 0.2919 | 0.2938 | Ave | | 0.2837 | | | | 5.1 | | 15.0 | | | |
| trans-1,4-Dichloro-2-butene | 0.2181<br>0.2689 | 0.2471 | 0.2346 | 0.2535 | 0.2845 | Ave | | 0.2511 | | | | 9.5 | | 15.0 | | | |
| n-Propylbenzene | 0.7292<br>0.8665 | 0.8823 | 0.8741 | 0.8947 | 0.9118 | Ave | | 0.8598 | | | | 7.7 | | 15.0 | | | |
| 2-Chlorotoluene | 0.8583<br>0.7918 | 0.8579 | 0.8258 | 0.8361 | 0.8474 | Ave | | 0.8362 | | | | 3.0 | | 15.0 | | | |
| 1,3,5-Trimethylbenzene | 2.5787<br>2.8481 | 2.7830 | 2.7962 | 2.7951 | 2.9477 | Ave | | 2.7914 | | | | 4.3 | | 15.0 | | | |
| 4-Chlorotoluene | 0.8421<br>0.8602 | 0.8907 | 0.8940 | 0.8564 | 0.9136 | Ave | | 0.8762 | | | | 3.1 | | 15.0 | | | |
| tert-Butylbenzene | 2.2870<br>2.5025 | 2.5077 | 2.4568 | 2.4969 | 2.5752 | Ave | | 2.4710 | | | | 4.0 | | 15.0 | | | |
| 1,2,4-Trimethylbenzene | 2.7586<br>2.9544 | 2.8331 | 2.8754 | 2.9504 | 3.0668 | Ave | | 2.9065 | | | | 3.7 | | 15.0 | | | |
| sec-Butylbenzene | 2.8024<br>3.1977 | 3.0238 | 2.9596 | 3.0216 | 3.2137 | Ave | | 3.0365 | | | | 5.1 | | 15.0 | | | |
| 1,3-Dichlorobenzene | 1.5037<br>1.4698 | 1.4901 | 1.5135 | 1.5069 | 1.5495 | Ave | | 1.5056 | | | 0.6000 | 1.8 | | 15.0 | | | |
| p-Isopropyltoluene | 2.2069<br>2.6255 | 2.4647 | 2.4703 | 2.4761 | 2.6715 | Ave | | 2.4858 | | | | 6.6 | | 15.0 | | | |
| 1,4-Dichlorobenzene | 1.6073<br>1.5308 | 1.6512 | 1.5577 | 1.5557 | 1.6211 | Ave | | 1.5873 | | | 0.5000 | 2.9 | | 15.0 | | | |
| n-Butylbenzene | 2.0896<br>2.4436 | 2.2004 | 2.2368 | 2.2659 | 2.4792 | Ave | | 2.2859 | | | | 6.5 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-10670-1 Analy Batch No.: 42092

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2012 15:41 Calibration End Date: 04/29/2012 17:34 Calibration ID: 8426

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 1,2-Dichlorobenzene | 1.4966<br>1.3945 | 1.5126 | 1.5119 | 1.4682 | 1.5239 | Ave | | 1.4846 | | | 0.4000 | 3.2 | | 15.0 | | | |
| 1,2-Dibromo-3-Chloropropane | 0.0886<br>0.0950 | 0.0916 | 0.0904 | 0.0972 | 0.1086 | Ave | | 0.0952 | | | 0.0500 | 7.6 | | 15.0 | | | |
| 1,3,5-Trichlorobenzene | 0.7904<br>0.7093 | 0.7633 | 0.7631 | 0.7837 | 0.8038 | Ave | | 0.7690 | | | | 4.3 | | 15.0 | | | |
| 1,2,4-Trichlorobenzene | 0.6476<br>0.5852 | 0.7228 | 0.7185 | 0.6951 | 0.7215 | Ave | | 0.6818 | | | 0.2000 | 8.1 | | 15.0 | | | |
| Hexachlorobutadiene | 0.2814<br>0.2092 | 0.2884 | 0.2495 | 0.2645 | 0.2531 | Ave | | 0.2577 | | | | 11.0 | | 15.0 | | | |
| Naphthalene | 1.9527<br>1.6802 | 2.0647 | 2.2163 | 2.2497 | 2.2115 | Ave | | 2.0625 | | | | 11.0 | | 15.0 | | | |
| 1,2,3-Trichlorobenzene | 0.6221<br>0.4278 | 0.6296 | 0.6285 | 0.6505 | 0.5938 | Ave | | 0.5920 | | | | 14.0 | | 15.0 | | | |
| Dibromofluoromethane (Surr) | 0.2331<br>0.2366 | 0.2278 | 0.2460 | 0.2403 | 0.2499 | Ave | | 0.2389 | | | | 3.4 | | 15.0 | | | |
| 1,2-Dichloroethane-d4 (Surr) | 0.4238<br>0.3659 | 0.3675 | 0.3946 | 0.3884 | 0.3801 | Ave | | 0.3867 | | | | 5.5 | | 15.0 | | | |
| Toluene-d8 (Surr) | 1.5539<br>1.5702 | 1.4814 | 1.5599 | 1.5466 | 1.5977 | Ave | | 1.5516 | | | | 2.5 | | 15.0 | | | |
| 4-Bromofluorobenzene (Surr) | 0.5499<br>0.5492 | 0.5504 | 0.5556 | 0.5412 | 0.5764 | Ave | | 0.5538 | | | | 2.2 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-10670-1 Analy Batch No.: 42092

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2012 17:57 Calibration End Date: 04/29/2012 19:50 Calibration ID: 8428

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD6 240-42092/13 | UXM5250.D |
| Level 2 | STD5 240-42092/12 | UXM5249.D |
| Level 3 | STD4 240-42092/11 | UXM5248.D |
| Level 4 | STD3 240-42092/10 | UXM5247.D |
| Level 5 | STD2 240-42092/9 | UXM5246.D |
| Level 6 | STD1 240-42092/8 | UXM5245.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Dichlorofluoromethane | 0.4944<br>0.5457 | 0.5179 | 0.5366 | 0.5411 | 0.5388 | Ave | | 0.5291 | | | | 3.7 | | 15.0 | | | |
| Ethyl ether | 0.2959<br>0.3118 | 0.3149 | 0.3299 | 0.3322 | 0.3247 | Ave | | 0.3182 | | | | 4.3 | | 15.0 | | | |
| 3-Chloro-1-propene | 0.1138<br>0.1626 | 0.1307 | 0.1332 | 0.1472 | 0.1572 | Ave | | 0.1408 | | | | 13.0 | | 15.0 | | | |
| Diisopropyl ether | 0.2325<br>0.3039 | 0.2698 | 0.2820 | 0.2880 | 0.2888 | Ave | | 0.2775 | | | | 8.9 | | 15.0 | | | |
| 2-Chloro-1,3-butadiene | 0.4443<br>0.5618 | 0.4913 | 0.5190 | 0.5386 | 0.5385 | Ave | | 0.5156 | | | | 8.2 | | 15.0 | | | |
| Ethyl-t-butyl ether (ETBE) | 0.7557<br>0.9819 | 0.8293 | 0.9029 | 0.9314 | 0.9383 | Ave | | 0.8899 | | | | 9.3 | | 15.0 | | | |
| ~~Propionitrile~~ | 0.0349<br>0.0408 | 0.0346 | 0.0382 | 0.0420 | 0.0412 | Ave | | ~~0.0386~~ | | | | 8.5 | | 15.0 | | | |
| Ethyl acetate | 0.2532<br>0.2900 | 0.2546 | 0.2741 | 0.2771 | 0.2824 | Ave | | 0.2719 | | | | 5.5 | | 15.0 | | | |
| Methacrylonitrile | 0.1606<br>0.2023 | 0.1897 | 0.1949 | 0.2046 | 0.2003 | Ave | | 0.1921 | | | | 8.5 | | 15.0 | | | |
| ~~Isobutyl alcohol~~ | 0.0077<br>0.0091 | 0.0077 | 0.0086 | 0.0094 | 0.0092 | Ave | | ~~0.0086~~ | | | | 8.8 | | 15.0 | | | |
| Tert-amyl-methyl ether (TAME) | 0.5871<br>0.7972 | 0.6671 | 0.7241 | 0.7535 | 0.7651 | Ave | | 0.7157 | | | | 11.0 | | 15.0 | | | |
| ~~n-Heptane~~ | 0.0338<br>0.0458 | 0.0359 | 0.0418 | 0.0425 | 0.0440 | Ave | | ~~0.0406~~ | | | | 12.0 | | 15.0 | | | |
| ~~n-Butanol~~ | 0.0041<br>0.0069 | 0.0052 | 0.0059 | 0.0064 | 0.0070 | Lin1 | -0.068 | ~~0.0070~~ | | | | | | | 0.9990 | | 0.9950 |
| ~~2-Nitropropane~~ | 0.0349<br>0.0534 | 0.0349 | 0.0424 | 0.0409 | 0.0453 | Qua | 0 | ~~0.0378~~ | 0.0002 | | | | | | 1.0000 | | 0.9900 |
| Cyclohexanone | 0.0676<br>0.1071 | 0.0696 | 0.0924 | 0.0940 | 0.1083 | Lin1 | -0.573 | 0.1077 | | | | | | | 0.9980 | | 0.9950 |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-10670-1 Analy Batch No.: 42092

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2012 17:57 Calibration End Date: 04/29/2012 19:50 Calibration ID: 8428

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 1,2,3-Trimethylbenzene | 2.3062<br>3.3384 | 2.8522 | 3.0020 | 3.1126 | 3.2823 | Ave | | 2.9823 | | | | 13.0 | | 15.0 | | | |
| 2-Methylnaphthalene | 0.5487<br>0.8482 | 0.7229 | 0.8158 | 0.9225 | 1.0313 | Qua | -2.422 | 1.2182 | -0.004 | | | | | | 0.9970 | | 0.9900 |

Note: The ml coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-10670-1 Analy Batch No.: 42092

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2012 15:41 Calibration End Date: 04/29/2012 17:34 Calibration ID: 8426

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD8260 240-42092/7 | UXM5244.D |
| Level 2 | STD8260 240-42092/6 | UXM5243.D |
| Level 3 | STD8260 240-42092/5 | UXM5242.D |
| Level 4 | STD8260 240-42092/4 | UXM5241.D |
| Level 5 | STD8260 240-42092/3 | UXM5240.D |
| Level 6 | STD8260 240-42092/2 | UXM5239.D |

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Dichlorodifluoromethane | FB | Ave | 35885<br>1980706 | 77645 | 213757 | 441965 | 926938 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Chloromethane | FB | Ave | 68054<br>2816599 | 143417 | 355421 | 686521 | 1368025 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Vinyl chloride | FB | Ave | 60917<br>2635065 | 129233 | 321221 | 651141 | 1291232 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Bromomethane | FB | Ave | 25083<br>973652 | 51574 | 127563 | 256449 | 525557 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Chloroethane | FB | Ave | 35804<br>1453341 | 72482 | 172479 | 363159 | 717903 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Trichlorofluoromethane | FB | Ave | 39202<br>2042282 | 89918 | 223037 | 469710 | 984559 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Acrolein | FB | Ave | 68008<br>3085342 | 141530 | 369770 | 777854 | 1531686 | 10.0<br>400 | 20.0 | 50.0 | 100 | 200 |
| 1,1-Dichloroethene | FB | Ave | 33918<br>1630889 | 70410 | 178421 | 382278 | 771598 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | FB | Ave | 21921<br>1057686 | 45508 | 110360 | 226331 | 494002 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Acetone | FB | Lin1 | 62683<br>1127237 | 93486 | 173839 | 336387 | 595897 | 2.00<br>80.0 | 4.00 | 10.0 | 20.0 | 40.0 |
| Iodomethane | FB | Ave | 48493<br>2144017 | 100103 | 257965 | 530730 | 1098294 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Carbon disulfide | FB | Ave | 90427<br>5335771 | 190797 | 513352 | 1156089 | 2490300 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Acetonitrile | FB | Ave | 56749<br>1947368 | 107775 | 259776 | 513045 | 1022838 | 10.0<br>400 | 20.0 | 50.0 | 100 | 200 |
| Methyl acetate | FB | Ave | 71069<br>2730691 | 139317 | 353813 | 726384 | 1391336 | 2.00<br>80.0 | 4.00 | 10.0 | 20.0 | 40.0 |
| Methylene Chloride | FB | Lin1 | 65695<br>1907926 | 111106 | 253801 | 487762 | 958858 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| tert-Butyl alcohol | FB | Ave | 54296<br>2230486 | 121019 | 278401 | 577732 | 1181799 | 20.0<br>800 | 40.0 | 100 | 200 | 400 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-10670-1 Analy Batch No.: 42092

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2012 15:41 Calibration End Date: 04/29/2012 17:34 Calibration ID: 8426

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Acrylonitrile | FB | Ave | 33199<br>1332502 | 64764 | 167664 | 357877 | 679313 | 2.00<br>80.0 | 4.00 | 10.0 | 20.0 | 40.0 |
| trans-1,2-Dichloroethene | FB | Ave | 41156<br>1805850 | 86315 | 216661 | 436186 | 887809 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Methyl tert-butyl ether | FB | Ave | 123316<br>5356990 | 240492 | 622584 | 1294546 | 2632357 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Hexane | FB | Ave | 7664<br>364870 | 15284 | 35939 | 76608 | 176542 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,1-Dichloroethane | FB | Ave | 79407<br>3589145 | 173107 | 426021 | 871835 | 1773954 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Vinyl acetate | FB | Ave | 6355<br>356768 | 12300 | 36192 | 86048 | 174699 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 2-Butanone | FB | Ave | 41482<br>1583175 | 81587 | 207910 | 420664 | 807827 | 2.00<br>80.0 | 4.00 | 10.0 | 20.0 | 40.0 |
| cis-1,2-Dichloroethene | FB | Ave | 45701<br>1960017 | 88112 | 228624 | 473715 | 970100 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 2,2-Dichloropropane | FB | Ave | 35648<br>2005803 | 82038 | 216190 | 467681 | 1002264 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Bromochloromethane | FB | Ave | 18189<br>822935 | 35913 | 95509 | 203401 | 408648 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Tetrahydrofuran | FB | Ave | 12689<br>485231 | 24197 | 61085 | 130645 | 258628 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Chloroform | FB | Ave | 74928<br>3359863 | 155328 | 396473 | 809345 | 1683052 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,1,1-Trichloroethane | FB | Ave | 46880<br>2498258 | 102599 | 270389 | 587525 | 1225053 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Cyclohexane | FB | Ave | 61130<br>3150583 | 142538 | 326094 | 684755 | 1477804 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,1-Dichloropropene | FB | Ave | 63188<br>2734618 | 123064 | 310759 | 650531 | 1338590 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Carbon tetrachloride | FB | Ave | 35596<br>2003224 | 74531 | 192609 | 438606 | 942348 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,2-Dichloroethane | FB | Ave | 70126<br>2945634 | 139538 | 343914 | 713992 | 1447593 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Benzene | FB | Ave | 177668<br>8119748 | 367399 | 938261 | 1900238 | 3892190 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Trichloroethene | FB | Ave | 39339<br>1731358 | 78290 | 201140 | 412335 | 835509 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Methylcyclohexane | FB | Ave | 44297<br>2465241 | 104143 | 256548 | 509583 | 1123367 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,2-Dichloropropane | FB | Ave | 43403<br>1987718 | 89635 | 231666 | 479240 | 957503 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-10670-1 Analy Batch No.: 42092

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2012 15:41 Calibration End Date: 04/29/2012 17:34 Calibration ID: 8426

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Dibromomethane | FB | Ave | 24282<br>1014093 | 44570 | 121000 | 244410 | 505175 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,4-Dioxane | FB | Ave | 16576<br>659305 | 35560 | 90656 | 190747 | 391761 | 50.0<br>2000 | 100 | 250 | 500 | 1000 |
| Bromodichloromethane | FB | Ave | 37481<br>2303873 | 80071 | 223410 | 491180 | 1061629 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 2-Chloroethyl vinyl ether | FB | Ave | 44406<br>2063070 | 85505 | 245756 | 519803 | 1016253 | 2.00<br>80.0 | 4.00 | 10.0 | 20.0 | 40.0 |
| cis-1,3-Dichloropropene | FB | Lin1 | 44366<br>2983706 | 95217 | 282978 | 648461 | 1373441 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 4-Methyl-2-pentanone | FB | Ave | 71052<br>3358613 | 148911 | 406020 | 850832 | 1691407 | 2.00<br>80.0 | 4.00 | 10.0 | 20.0 | 40.0 |
| Toluene | CBZ | Ave | 173321<br>8413844 | 364692 | 910325 | 1915731 | 3926815 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| trans-1,3-Dichloropropene | CBZ | Lin1 | 37498<br>2640993 | 81347 | 242683 | 548215 | 1203917 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Ethyl methacrylate | CBZ | Ave | 43557<br>2519754 | 100996 | 281867 | 600178 | 1250367 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,1,2-Trichloroethane | CBZ | Ave | 32062<br>1400847 | 60672 | 167279 | 346503 | 690523 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,3-Dichloropropane | CBZ | Ave | 67375<br>2893528 | 134135 | 349671 | 718457 | 1446895 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Tetrachloroethene | CBZ | Ave | 23974<br>1134016 | 50793 | 130464 | 270912 | 548439 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 2-Hexanone | CBZ | Ave | 45416<br>2246833 | 108870 | 273438 | 585245 | 1142606 | 2.00<br>80.0 | 4.00 | 10.0 | 20.0 | 40.0 |
| Dibromochloromethane | CBZ | Lin1 | 18304<br>1357782 | 41724 | 120488 | 280880 | 612329 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,2-Dibromoethane | CBZ | Ave | 28960<br>1404286 | 59664 | 163482 | 338113 | 693547 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Chlorobenzene | CBZ | Ave | 105191<br>4733672 | 217868 | 543385 | 1134607 | 2263366 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,1,1,2-Tetrachloroethane | CBZ | Ave | 26058<br>1512891 | 52279 | 149910 | 336962 | 708703 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Ethylbenzene | CBZ | Ave | 51103<br>2559405 | 112518 | 294632 | 607431 | 1234615 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| m-Xylene & p-Xylene | CBZ | Ave | 132121<br>6585856 | 278940 | 703188 | 1488195 | 3060062 | 2.00<br>80.0 | 4.00 | 10.0 | 20.0 | 40.0 |
| o-Xylene | CBZ | Ave | 66541<br>3173134 | 138606 | 357130 | 739399 | 1512511 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Styrene | CBZ | Ave | 103288<br>5626230 | 218474 | 585061 | 1234437 | 2578106 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-10670-1 Analy Batch No.: 42092

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2012 15:41 Calibration End Date: 04/29/2012 17:34 Calibration ID: 8426

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Bromoform | CBZ | Lin1 | 7969<br>648344 | 18118 | 55408 | 121431 | 283016 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Isopropylbenzene | CBZ | Ave | 151460<br>7982152 | 325696 | 813952 | 1757043 | 3707115 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,1,2,2-Tetrachloroethane | DCB | Ave | 39154<br>1824334 | 86153 | 226349 | 464104 | 921979 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Bromobenzene | DCB | Ave | 36958<br>1702050 | 77737 | 198983 | 403705 | 832802 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,2,3-Trichloropropane | DCB | Ave | 13182<br>559668 | 26291 | 69913 | 145766 | 291005 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| trans-1,4-Dichloro-2-butene | DCB | Ave | 9983<br>588408 | 23177 | 56072 | 126610 | 281722 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| n-Propylbenzene | DCB | Ave | 33381<br>1896081 | 82760 | 208940 | 446839 | 902975 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 2-Chlorotoluene | DCB | Ave | 39291<br>1732447 | 80476 | 197398 | 417562 | 839275 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,3,5-Trimethylbenzene | DCB | Ave | 118040<br>6231859 | 261059 | 668378 | 1395891 | 2919244 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 4-Chlorotoluene | DCB | Ave | 38548<br>1882105 | 83551 | 213705 | 427671 | 904798 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| tert-Butylbenzene | DCB | Ave | 104687<br>5475645 | 235235 | 587256 | 1246967 | 2550345 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,2,4-Trimethylbenzene | DCB | Ave | 126276<br>6464529 | 265761 | 687322 | 1473461 | 3037207 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| sec-Butylbenzene | DCB | Ave | 128284<br>6996931 | 283652 | 707440 | 1509023 | 3182710 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,3-Dichlorobenzene | DCB | Ave | 68832<br>3216077 | 139781 | 361776 | 752571 | 1534518 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| p-Isopropyltoluene | DCB | Ave | 101022<br>5744842 | 231206 | 590475 | 1236559 | 2645753 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,4-Dichlorobenzene | DCB | Ave | 73576<br>3349475 | 154891 | 372339 | 776907 | 1605428 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| n-Butylbenzene | DCB | Ave | 95655<br>5346731 | 206411 | 534670 | 1131581 | 2455279 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,2-Dichlorobenzene | DCB | Ave | 68510<br>3051238 | 141891 | 361399 | 733205 | 1509157 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,2-Dibromo-3-Chloropropane | DCB | Ave | 4054<br>207890 | 8593 | 21620 | 48540 | 107543 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,3,5-Trichlorobenzene | DCB | Ave | 36183<br>1552119 | 71605 | 182409 | 391395 | 796044 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,2,4-Trichlorobenzene | DCB | Ave | 29643<br>1280551 | 67798 | 171750 | 347154 | 714527 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-10670-1 Analy Batch No.: 42092

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2012 15:41 Calibration End Date: 04/29/2012 17:34 Calibration ID: 8426

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Hexachlorobutadiene | DCB | Ave | 12883<br>457756 | 27055 | 59629 | 132088 | 250690 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Naphthalene | DCB | Ave | 89388<br>3676449 | 193683 | 529762 | 1123493 | 2190121 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,2,3-Trichlorobenzene | DCB | Ave | 28475<br>936111 | 59064 | 150229 | 324862 | 588048 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Dibromofluoromethane (Surr) | FB | Ave | 33786<br>1543057 | 66758 | 181044 | 367622 | 767961 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,2-Dichloroethane-d4 (Surr) | FB | Ave | 61436<br>2385669 | 107729 | 290422 | 594253 | 1168069 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Toluene-d8 (Surr) | CBZ | Ave | 151916<br>6847384 | 286160 | 762662 | 1603788 | 3200285 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 4-Bromofluorobenzene (Surr) | CBZ | Ave | 53765<br>2394878 | 106312 | 271656 | 561195 | 1154675 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |

Curve Type Legend:
Ave = Average ISTD
Linl = Linear 1/conc ISTD

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-10670-1 Analy Batch No.: 42092

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2012 17:57 Calibration End Date: 04/29/2012 19:50 Calibration ID: 8428

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD6 240-42092/13 | UXM5250.D |
| Level 2 | STD5 240-42092/12 | UXM5249.D |
| Level 3 | STD4 240-42092/11 | UXM5248.D |
| Level 4 | STD3 240-42092/10 | UXM5247.D |
| Level 5 | STD2 240-42092/9 | UXM5246.D |
| Level 6 | STD1 240-42092/8 | UXM5245.D |

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Dichlorofluoromethane | FB | Ave | 74598<br>3240218 | 146412 | 376630 | 789014 | 1566079 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Ethyl ether | FB | Ave | 44644<br>1851341 | 89012 | 231543 | 484302 | 943782 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 3-Chloro-1-propene | FB | Ave | 17177<br>965704 | 36949 | 93484 | 214615 | 456905 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Diisopropyl ether | FB | Ave | 175389<br>9021702 | 381358 | 989616 | 2099629 | 4197719 | 5.00<br>200 | 10.0 | 25.0 | 50.0 | 100 |
| 2-Chloro-1,3-butadiene | FB | Ave | 67037<br>3335483 | 138884 | 364302 | 785295 | 1565439 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Ethyl-t-butyl ether (ETBE) | FB | Ave | 114038<br>5829697 | 234431 | 633692 | 1358093 | 2727406 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Propionitrile | FB | Ave | 10519<br>484864 | 19537 | 53643 | 122521 | 239365 | 2.00<br>80.0 | 4.00 | 10.0 | 20.0 | 40.0 |
| Ethyl acetate | FB | Ave | 76413<br>3443932 | 143929 | 384742 | 808060 | 1641769 | 2.00<br>80.0 | 4.00 | 10.0 | 20.0 | 40.0 |
| Methacrylonitrile | FB | Ave | 24236<br>1201419 | 53633 | 136829 | 298324 | 582158 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Isobutyl alcohol | FB | Ave | 23378<br>1085228 | 43306 | 121353 | 274103 | 534944 | 20.0<br>800 | 40.0 | 100 | 200 | 400 |
| Tert-amyl-methyl ether (TAME) | FB | Ave | 88590<br>4733198 | 188598 | 508209 | 1098573 | 2224035 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| n-Heptane | FB | Ave | 5104<br>272147 | 10152 | 29307 | 62019 | 127766 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| n-Butanol | FB | Lin1 | 12500<br>823386 | 29417 | 83258 | 186498 | 409174 | 20.0<br>800 | 40.0 | 100 | 200 | 400 |
| 2-Nitropropane | FB | Qua | 10528<br>633675 | 19709 | 59496 | 119215 | 263103 | 2.00<br>80.0 | 4.00 | 10.0 | 20.0 | 40.0 |
| Cyclohexanone | DCB | Lin1 | 32243<br>1979275 | 60655 | 200382 | 427297 | 962192 | 10.0<br>400 | 20.0 | 50.0 | 100 | 200 |
| 1,2,3-Trimethylbenzene | DCB | Ave | 110047<br>6167616 | 248432 | 651353 | 1415601 | 2917084 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-10670-1 Analy Batch No.: 42092

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2012 17:57 Calibration End Date: 04/29/2012 19:50 Calibration ID: 8428

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| 2-Methylnaphthalene | DCB | Qua | 52371<br>3134049 | 125934 | 353992 | 839119 | 1833171 | 2.00<br>80.0 | 4.00 | 10.0 | 20.0 | 40.0 |

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Qua = Quadratic ISTD

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-10670-1

SDG No.:

Lab Sample ID: ICV 240-42092/14  Calibration Date: 04/29/2012 20:13

Instrument ID: A3UX16  Calib Start Date: 04/29/2012 15:41

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 04/29/2012 17:34

Lab File ID: UXM5251.D  Conc. Units: ug/L  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | Ave | 0.2829 | 0.2340 | 0.1000 | 8.27 | 10.0 | -17.3 | 20.0 |
| Chloromethane | Ave | 0.4613 | 0.4720 | 0.1000 | 10.2 | 10.0 | 2.3 | 20.0 |
| Vinyl chloride | Ave | 0.4246 | 0.4443 | 0.1000 | 10.5 | 10.0 | 4.6 | 20.0 |
| Bromomethane | Ave | 0.1684 | 0.1539 | 0.0500 | 9.14 | 10.0 | -8.6 | 20.0 |
| Chloroethane | Ave | 0.2371 | 0.2329 | 0.0500 | 9.82 | 10.0 | -1.8 | 20.0 |
| Trichlorofluoromethane | Ave | 0.3035 | 0.3240 | 0.1000 | 10.7 | 10.0 | 6.8 | 20.0 |
| Acrolein | Ave | 0.0489 | 0.0264 | | 16.2 | 30.0 | -46.0* | 20.0 |
| 1,1-Dichloroethene | Ave | 0.2446 | 0.2652 | 0.1000 | 10.8 | 10.0 | 8.4 | 20.0 |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | Ave | 0.1546 | 0.1709 | 0.0500 | 11.1 | 10.0 | 10.6 | 20.0 |
| Acetone | Lin1 | | 0.1057 | 0.0500 | 21.1 | 20.0 | 5.5 | 20.0 |
| Iodomethane | Ave | 0.3433 | 0.3416 | | 9.95 | 10.0 | -0.5 | 20.0 |
| Carbon disulfide | Ave | 0.7261 | 0.7042 | 0.1000 | 9.70 | 10.0 | -3.0 | 20.0 |
| Acetonitrile | Ave | 0.0346 | 0.0393 | | 34.0 | 30.0 | 13.4 | 20.0 |
| Methyl acetate | Ave | 0.2327 | 0.2751 | 0.1000 | 11.8 | 10.0 | 18.2 | 20.0 |
| Methylene Chloride | Lin1 | | 0.3299 | 0.1000 | 10.6 | 10.0 | 6.0 | 20.0 |
| tert-Butyl alcohol | Ave | 0.0189 | 0.0195 | | 207 | 200 | 3.2 | 20.0 |
| Acrylonitrile | Ave | 0.1114 | 0.1186 | | 31.9 | 30.0 | 6.5 | 20.0 |
| Methyl tert-butyl ether | Ave | 0.8402 | 0.8405 | 0.1000 | 10.0 | 10.0 | 0.0 | 20.0 |
| trans-1,2-Dichloroethene | Ave | 0.2873 | 0.2952 | 0.1000 | 10.3 | 10.0 | 2.7 | 20.0 |
| Hexane | Ave | 0.0529 | 0.0579 | | 10.9 | 10.0 | 9.4 | 20.0 |
| 1,1-Dichloroethane | Ave | 0.5691 | 0.6028 | 0.1000 | 10.6 | 10.0 | 5.9 | 20.0 |
| Vinyl acetate | Ave | 0.0505 | 0.0387 | | 7.67 | 10.0 | -23.3* | 20.0 |
| 2-Butanone | Ave | 0.1356 | 0.1389 | 0.0500 | 20.5 | 20.0 | 2.4 | 20.0 |
| 2,2-Dichloropropane | Ave | 0.2932 | 0.2855 | | 9.74 | 10.0 | -2.6 | 20.0 |
| cis-1,2-Dichloroethene | Ave | 0.3087 | 0.3186 | 0.1000 | 10.3 | 10.0 | 3.2 | 20.0 |
| Bromochloromethane | Ave | 0.1283 | 0.1312 | | 10.2 | 10.0 | 2.2 | 20.0 |
| Tetrahydrofuran | Ave | 0.0828 | 0.0852 | | 10.3 | 10.0 | 2.9 | 20.0 |
| Chloroform | Ave | 0.5296 | 0.5462 | 0.2000 | 10.3 | 10.0 | 3.1 | 20.0 |
| 1,1,1-Trichloroethane | Ave | 0.3678 | 0.3794 | 0.1000 | 10.3 | 10.0 | 3.2 | 20.0 |
| Cyclohexane | Ave | 0.4605 | 0.4767 | 0.1000 | 10.4 | 10.0 | 3.5 | 20.0 |
| 1,1-Dichloropropene | Ave | 0.4264 | 0.4383 | | 10.3 | 10.0 | 2.8 | 20.0 |
| Carbon tetrachloride | Ave | 0.2770 | 0.2912 | 0.1000 | 10.5 | 10.0 | 5.1 | 20.0 |
| 1,2-Dichloroethane | Ave | 0.4694 | 0.4938 | 0.1000 | 10.5 | 10.0 | 5.2 | 20.0 |
| Benzene | Ave | 1.251 | 1.319 | 0.5000 | 10.5 | 10.0 | 5.4 | 20.0 |
| Trichloroethene | Ave | 0.2698 | 0.2968 | 0.2000 | 11.0 | 10.0 | 10.0 | 20.0 |
| 1,2-Dichloropropane | Ave | 0.3083 | 0.3319 | 0.1000 | 10.8 | 10.0 | 7.7 | 20.0 |
| Methylcyclohexane | Ave | 0.3477 | 0.3665 | 0.1000 | 10.5 | 10.0 | 5.4 | 20.0 |
| Dibromomethane | Ave | 0.1606 | 0.1738 | | 10.8 | 10.0 | 8.2 | 20.0 |
| Bromodichloromethane | Ave | 0.3092 | 0.3331 | 0.1000 | 10.8 | 10.0 | 7.7 | 20.0 |
| 2-Chloroethyl vinyl ether | Ave | 0.1599 | 0.1722 | | 10.8 | 10.0 | 7.7 | 20.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-10670-1

SDG No.:

Lab Sample ID: ICV 240-42092/14  Calibration Date: 04/29/2012 20:13

Instrument ID: A3UX16  Calib Start Date: 04/29/2012 15:41

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 04/29/2012 17:34

Lab File ID: UXM5251.D  Conc. Units: ug/L  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | Lin1 | | 0.4089 | 0.1500 | 9.41 | 10.0 | -5.9 | 20.0 |
| 4-Methyl-2-pentanone | Ave | 0.2643 | 0.2914 | 0.0500 | 22.1 | 20.0 | 10.3 | 20.0 |
| Toluene | Ave | 1.877 | 1.918 | 0.4000 | 10.2 | 10.0 | 2.2 | 20.0 |
| trans-1,3-Dichloropropene | Lin1 | | 0.5291 | 0.1000 | 9.28 | 10.0 | -7.2 | 20.0 |
| 1,1,2-Trichloroethane | Ave | 0.3307 | 0.3442 | 0.1000 | 10.4 | 10.0 | 4.1 | 20.0 |
| 1,3-Dichloropropane | Ave | 0.6962 | 0.7105 | | 10.2 | 10.0 | 2.0 | 20.0 |
| Tetrachloroethene | Ave | 0.2617 | 0.2644 | 0.2000 | 10.1 | 10.0 | 1.0 | 20.0 |
| 2-Hexanone | Ave | 0.2698 | 0.2927 | 0.0500 | 21.7 | 20.0 | 8.5 | 20.0 |
| Dibromochloromethane | Lin1 | | 0.2623 | | 9.02 | 10.0 | -9.8 | 20.0 |
| 1,2-Dibromoethane | Ave | 0.3223 | 0.3341 | | 10.4 | 10.0 | 3.7 | 20.0 |
| Chlorobenzene | Ave | 1.104 | 1.136 | 0.3000 | 10.3 | 10.0 | 2.8 | 20.0 |
| 1,1,1,2-Tetrachloroethane | Ave | 0.3116 | 0.3283 | | 10.5 | 10.0 | 5.4 | 20.0 |
| Ethylbenzene | Ave | 0.5828 | 0.6250 | | 10.7 | 10.0 | 7.2 | 20.0 |
| m-Xylene & p-Xylene | Ave | 0.7256 | 0.7452 | | 20.5 | 20.0 | 2.7 | 20.0 |
| o-Xylene | Ave | 0.7207 | 0.7518 | | 10.4 | 10.0 | 4.3 | 20.0 |
| Styrene | Ave | 1.192 | 1.255 | 0.3000 | 10.5 | 10.0 | 5.3 | 20.0 |
| Bromoform | Lin1 | | 0.1220 | 0.1000 | 9.03 | 10.0 | -9.7 | 20.0 |
| Isopropylbenzene | Ave | 1.713 | 1.779 | 0.1000 | 10.4 | 10.0 | 3.9 | 20.0 |
| 1,1,2,2-Tetrachloroethane | Ave | 0.9025 | 0.9195 | 0.3000 | 10.2 | 10.0 | 1.9 | 20.0 |
| Bromobenzene | Ave | 0.8159 | 0.8010 | | 9.82 | 10.0 | -1.8 | 20.0 |
| 1,2,3-Trichloropropane | Ave | 0.2837 | 0.2982 | | 10.5 | 10.0 | 5.1 | 20.0 |
| trans-1,4-Dichloro-2-butene | Ave | 0.2511 | 0.2617 | | 20.8 | 20.0 | 4.2 | 20.0 |
| n-Propylbenzene | Ave | 0.8598 | 0.9010 | | 10.5 | 10.0 | 4.8 | 20.0 |
| 2-Chlorotoluene | Ave | 0.8362 | 0.8214 | | 9.82 | 10.0 | -1.8 | 20.0 |
| 1,3,5-Trimethylbenzene | Ave | 2.791 | 2.836 | | 10.2 | 10.0 | 1.6 | 20.0 |
| 4-Chlorotoluene | Ave | 0.8762 | 0.8813 | | 10.1 | 10.0 | 0.6 | 20.0 |
| tert-Butylbenzene | Ave | 2.471 | 2.497 | | 10.1 | 10.0 | 1.1 | 20.0 |
| 1,2,4-Trimethylbenzene | Ave | 2.906 | 2.988 | | 10.3 | 10.0 | 2.8 | 20.0 |
| sec-Butylbenzene | Ave | 3.036 | 3.064 | | 10.1 | 10.0 | 0.9 | 20.0 |
| 1,3-Dichlorobenzene | Ave | 1.506 | 1.484 | 0.6000 | 9.85 | 10.0 | -1.5 | 20.0 |
| p-Isopropyltoluene | Ave | 2.486 | 2.579 | | 10.4 | 10.0 | 3.8 | 20.0 |
| 1,4-Dichlorobenzene | Ave | 1.587 | 1.584 | 0.5000 | 9.98 | 10.0 | -0.2 | 20.0 |
| n-Butylbenzene | Ave | 2.286 | 2.295 | | 10.0 | 10.0 | 0.4 | 20.0 |
| 1,2-Dichlorobenzene | Ave | 1.485 | 1.504 | 0.4000 | 10.1 | 10.0 | 1.3 | 20.0 |
| 1,2-Dibromo-3-Chloropropane | Ave | 0.0952 | 0.1049 | 0.0500 | 11.0 | 10.0 | 10.1 | 20.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.6818 | 0.6660 | 0.2000 | 9.77 | 10.0 | -2.3 | 20.0 |
| Hexachlorobutadiene | Ave | 0.2577 | 0.2217 | | 8.60 | 10.0 | -14.0 | 20.0 |
| Naphthalene | Ave | 2.063 | 2.211 | | 10.7 | 10.0 | 7.2 | 20.0 |
| 1,2,3-Trichlorobenzene | Ave | 0.5920 | 0.6250 | | 10.6 | 10.0 | 5.6 | 20.0 |
| Dibromofluoromethane (Surr) | Ave | 0.2389 | 0.2274 | | 9.72 | 10.2 | -4.8 | 20.0 |
| 1,2-Dichloroethane-d4 (Surr) | Ave | 0.3867 | 0.3583 | | 9.46 | 10.2 | -7.3 | 20.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Lab Sample ID: ICV 240-42092/14 Calibration Date: 04/29/2012 20:13

Instrument ID: A3UX16 Calib Start Date: 04/29/2012 15:41

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/29/2012 17:34

Lab File ID: UXM5251.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Toluene-d8 (Surr) | Ave | 1.552 | 1.491 | | 9.81 | 10.2 | -3.9 | 20.0 |
| 4-Bromofluorobenzene (Surr) | Ave | 0.5538 | 0.5469 | | 10.1 | 10.2 | -1.2 | 20.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-10670-1

SDG No.:

Lab Sample ID: ICV 240-42092/14  Calibration Date: 04/29/2012 20:13

Instrument ID: A3UX16  Calib Start Date: 04/29/2012 17:57

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 04/29/2012 19:50

Lab File ID: UXM5251.D  Conc. Units: ug/L  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Ethyl ether | Ave | 0.3182 | 0.3065 | | 9.63 | 10.0 | -3.7 | 20.0 |
| Diisopropyl ether | Ave | 0.2775 | 0.2745 | | 9.89 | 10.0 | -1.1 | 20.0 |
| Isobutyl alcohol | Ave | 0.0086 | 0.0091 | | 527 | 500 | 5.4 | 20.0 |
| Cyclohexanone | Lin1 | | 0.0256 | | 52.9 | 200 | -73.6* | 20.0 |
| 1,2,3-Trimethylbenzene | Ave | 2.982 | 3.178 | | 10.7 | 10.0 | 6.6 | 20.0 |

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Lab File ID: BFB2916.D BFB Injection Date: 04/30/2012

Instrument ID: A3UX16 BFB Injection Time: 11:22

Analysis Batch No.: 42171

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 50 | 15.0 - 40.0 % of mass 95 | 21.2 | |
| 75 | 30.0 - 60.0 % of mass 95 | 53.9 | |
| 95 | Base Peak, 100% relative abundance | 100.0 | |
| 96 | 5.0 - 9.0 % of mass 95 | 7.1 | |
| 173 | Less than 2.0 % of mass 174 | 0.1 | (0.2)1 |
| 174 | 50.0 - 120.00 % of mass 95 | 66.2 | |
| 175 | 5.0 - 9.0 % of mass 174 | 4.8 | (7.3)1 |
| 176 | 95.0 - 101.0 % of mass 174 | 63.9 | (96.5)1 |
| 177 | 5.0 - 9.0 % of mass 176 | 4.2 | (6.6)2 |

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | CCVIS 240-42171/2 | UXM5270.D | 04/30/2012 | 11:50 |
| | CCV 240-42171/3 | UXM5271.D | 04/30/2012 | 12:13 |
| | LCS 240-42171/4 | UXM5272.D | 04/30/2012 | 12:36 |
| | MB 240-42171/5 | UXM5273.D | 04/30/2012 | 12:59 |
| TB-042512 | 240-10670-1 | UXM5280.D | 04/30/2012 | 15:54 |
| MT-MW05S-042512 | 240-10670-2 | UXM5281.D | 04/30/2012 | 16:17 |
| MT-MW01S-042512 | 240-10670-3 | UXM5282.D | 04/30/2012 | 16:40 |
| MT-MW03S-042512 | 240-10670-4 | UXM5283.D | 04/30/2012 | 17:03 |
| | 240-10350-A-5 MS | UXM5284.D | 04/30/2012 | 17:25 |
| | 240-10350-C-5 MSD | UXM5285.D | 04/30/2012 | 17:48 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-10670-1

SDG No.:

Lab Sample ID: CCVIS 240-42171/2  Calibration Date: 04/30/2012 11:50

Instrument ID: A3UX16  Calib Start Date: 04/29/2012 15:41

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 04/29/2012 17:34

Lab File ID: UXM5270.D  Conc. Units: ug/L  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | Ave | 0.2829 | 0.2885 | 0.1000 | 10.2 | 10.0 | 2.0 | 20.0 |
| Chloromethane | Ave | 0.4613 | 0.4195 | 0.1000 | 9.10 | 10.0 | -9.0 | 20.0 |
| Vinyl chloride | Ave | 0.4246 | 0.4029 | 0.1000 | 9.49 | 10.0 | -5.1 | 20.0 |
| Bromomethane | Ave | 0.1684 | 0.1518 | 0.0500 | 9.02 | 10.0 | -9.8 | 20.0 |
| Chloroethane | Ave | 0.2371 | 0.2197 | 0.0500 | 9.27 | 10.0 | -7.3 | 20.0 |
| Trichlorofluoromethane | Ave | 0.3035 | 0.3119 | 0.1000 | 10.3 | 10.0 | 2.8 | 20.0 |
| ~~Acrolein~~ | Ave | 0.0489 | 0.0440 | | 89.9 | 100 | -10.1 | 20.0 |
| 1,1-Dichloroethene | Ave | 0.2446 | 0.2428 | 0.1000 | 9.93 | 10.0 | -0.7 | 20.0 |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | Ave | 0.1546 | 0.1669 | 0.0500 | 10.8 | 10.0 | 8.0 | 20.0 |
| Acetone | Lin1 | | 0.0864 | 0.0500 | 16.6 | 20.0 | -17.0 | 20.0 |
| Iodomethane | Ave | 0.3433 | 0.3500 | | 10.2 | 10.0 | 1.9 | 20.0 |
| Carbon disulfide | Ave | 0.7261 | 0.7265 | 0.1000 | 10.0 | 10.0 | 0.0 | 20.0 |
| ~~Acetonitrile~~ | Ave | 0.0346 | 0.0292 | | 84.2 | 100 | -15.8 | 20.0 |
| Methyl acetate | Ave | 0.2327 | 0.1967 | 0.1000 | 16.9 | 20.0 | -15.5 | 20.0 |
| Methylene Chloride | Lin1 | | 0.3004 | 0.1000 | 9.58 | 10.0 | -4.2 | 20.0 |
| tert-Butyl alcohol | Ave | 0.0189 | 0.0158 | | 167 | 200 | -16.6 | 20.0 |
| Acrylonitrile | Ave | 0.1114 | 0.0998 | | 17.9 | 20.0 | -10.5 | 20.0 |
| Methyl tert-butyl ether | Ave | 0.8402 | 0.7869 | 0.1000 | 9.36 | 10.0 | -6.4 | 20.0 |
| trans-1,2-Dichloroethene | Ave | 0.2873 | 0.2775 | 0.1000 | 9.66 | 10.0 | -3.4 | 20.0 |
| Hexane | Ave | 0.0529 | 0.0551 | | 10.4 | 10.0 | 4.1 | 20.0 |
| 1,1-Dichloroethane | Ave | 0.5691 | 0.5381 | 0.1000 | 9.45 | 10.0 | -5.5 | 20.0 |
| Vinyl acetate | Ave | 0.0505 | 0.0473 | | 9.37 | 10.0 | -6.3 | 20.0 |
| 2-Butanone | Ave | 0.1356 | 0.1228 | 0.0500 | 18.1 | 20.0 | -9.5 | 20.0 |
| cis-1,2-Dichloroethene | Ave | 0.3087 | 0.2944 | 0.1000 | 9.54 | 10.0 | -4.6 | 20.0 |
| 2,2-Dichloropropane | Ave | 0.2932 | 0.3012 | | 10.3 | 10.0 | 2.7 | 20.0 |
| Bromochloromethane | Ave | 0.1283 | 0.1246 | | 9.71 | 10.0 | -2.9 | 20.0 |
| Tetrahydrofuran | Ave | 0.0828 | 0.0713 | | 8.61 | 10.0 | -13.9 | 20.0 |
| Chloroform | Ave | 0.5296 | 0.5127 | 0.2000 | 9.68 | 10.0 | -3.2 | 20.0 |
| 1,1,1-Trichloroethane | Ave | 0.3678 | 0.3764 | 0.1000 | 10.2 | 10.0 | 2.3 | 20.0 |
| Cyclohexane | Ave | 0.4605 | 0.4777 | 0.1000 | 10.4 | 10.0 | 3.7 | 20.0 |
| 1,1-Dichloropropene | Ave | 0.4264 | 0.4061 | | 9.53 | 10.0 | -4.7 | 20.0 |
| Carbon tetrachloride | Ave | 0.2770 | 0.2871 | 0.1000 | 10.4 | 10.0 | 3.7 | 20.0 |
| 1,2-Dichloroethane | Ave | 0.4694 | 0.4390 | 0.1000 | 9.35 | 10.0 | -6.5 | 20.0 |
| Benzene | Ave | 1.251 | 1.173 | 0.5000 | 9.38 | 10.0 | -6.2 | 20.0 |
| Trichloroethene | Ave | 0.2698 | 0.2578 | 0.2000 | 9.56 | 10.0 | -4.4 | 20.0 |
| 1,2-Dichloropropane | Ave | 0.3083 | 0.2961 | 0.1000 | 9.61 | 10.0 | -3.9 | 20.0 |
| Methylcyclohexane | Ave | 0.3477 | 0.3809 | 0.1000 | 11.0 | 10.0 | 9.5 | 20.0 |
| Dibromomethane | Ave | 0.1606 | 0.1478 | | 9.20 | 10.0 | -8.0 | 20.0 |
| ~~1,4-Dioxane~~ | Ave | 0.0024 | 0.0019 | | 403 | 500 | -19.5 | 20.0 |
| Bromodichloromethane | Ave | 0.3092 | 0.3153 | 0.1000 | 10.2 | 10.0 | 2.0 | 20.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-10670-1

SDG No.:

Lab Sample ID: CCVIS 240-42171/2  Calibration Date: 04/30/2012 11:50

Instrument ID: A3UX16  Calib Start Date: 04/29/2012 15:41

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 04/29/2012 17:34

Lab File ID: UXM5270.D  Conc. Units: ug/L  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 2-Chloroethyl vinyl ether | Ave | 0.1599 | 0.1432 | | 17.9 | 20.0 | -10.4 | 20.0 |
| cis-1,3-Dichloropropene | Lin1 | | 0.3918 | 0.1500 | 9.04 | 10.0 | -9.6 | 20.0 |
| 4-Methyl-2-pentanone | Ave | 0.2643 | 0.2348 | 0.0500 | 17.8 | 20.0 | -11.1 | 20.0 |
| Toluene | Ave | 1.877 | 1.787 | 0.4000 | 9.52 | 10.0 | -4.8 | 20.0 |
| trans-1,3-Dichloropropene | Lin1 | | 0.5043 | 0.1000 | 8.87 | 10.0 | -11.3 | 20.0 |
| Ethyl methacrylate | Ave | 0.5543 | 0.5335 | | 9.62 | 10.0 | -3.8 | 20.0 |
| 1,1,2-Trichloroethane | Ave | 0.3307 | 0.3148 | 0.1000 | 9.52 | 10.0 | -4.8 | 20.0 |
| 1,3-Dichloropropane | Ave | 0.6962 | 0.6368 | | 9.15 | 10.0 | -8.5 | 20.0 |
| Tetrachloroethene | Ave | 0.2617 | 0.2605 | 0.2000 | 9.95 | 10.0 | -0.5 | 20.0 |
| 2-Hexanone | Ave | 0.2698 | 0.2379 | 0.0500 | 17.6 | 20.0 | -11.8 | 20.0 |
| Dibromochloromethane | Lin1 | | 0.2633 | | 9.05 | 10.0 | -9.5 | 20.0 |
| 1,2-Dibromoethane | Ave | 0.3223 | 0.3055 | | 9.48 | 10.0 | -5.2 | 20.0 |
| Chlorobenzene | Ave | 1.104 | 1.033 | 0.3000 | 9.36 | 10.0 | -6.4 | 20.0 |
| 1,1,1,2-Tetrachloroethane | Ave | 0.3116 | 0.3137 | | 10.1 | 10.0 | 0.7 | 20.0 |
| Ethylbenzene | Ave | 0.5828 | 0.5604 | | 9.61 | 10.0 | -3.9 | 20.0 |
| m-Xylene & p-Xylene | Ave | 0.7256 | 0.7011 | | 19.3 | 20.0 | -3.4 | 20.0 |
| o-Xylene | Ave | 0.7207 | 0.6828 | | 9.47 | 10.0 | -5.3 | 20.0 |
| Styrene | Ave | 1.192 | 1.161 | 0.3000 | 9.74 | 10.0 | -2.6 | 20.0 |
| Bromoform | Lin1 | | 0.1180 | 0.1000 | 8.76 | 10.0 | -12.4 | 20.0 |
| Isopropylbenzene | Ave | 1.713 | 1.674 | 0.1000 | 9.78 | 10.0 | -2.2 | 20.0 |
| 1,1,2,2-Tetrachloroethane | Ave | 0.9025 | 0.8145 | 0.3000 | 9.03 | 10.0 | -9.7 | 20.0 |
| Bromobenzene | Ave | 0.8159 | 0.7672 | | 9.40 | 10.0 | -6.0 | 20.0 |
| 1,2,3-Trichloropropane | Ave | 0.2837 | 0.2411 | | 8.50 | 10.0 | -15.0 | 20.0 |
| trans-1,4-Dichloro-2-butene | Ave | 0.2511 | 0.2253 | | 8.97 | 10.0 | -10.3 | 20.0 |
| n-Propylbenzene | Ave | 0.8598 | 0.8408 | | 9.78 | 10.0 | -2.2 | 20.0 |
| 2-Chlorotoluene | Ave | 0.8362 | 0.7704 | | 9.21 | 10.0 | -7.9 | 20.0 |
| 1,3,5-Trimethylbenzene | Ave | 2.791 | 2.685 | | 9.62 | 10.0 | -3.8 | 20.0 |
| 4-Chlorotoluene | Ave | 0.8762 | 0.8030 | | 9.16 | 10.0 | -8.4 | 20.0 |
| tert-Butylbenzene | Ave | 2.471 | 2.377 | | 9.62 | 10.0 | -3.8 | 20.0 |
| 1,2,4-Trimethylbenzene | Ave | 2.906 | 2.768 | | 9.52 | 10.0 | -4.8 | 20.0 |
| sec-Butylbenzene | Ave | 3.036 | 2.929 | | 9.65 | 10.0 | -3.5 | 20.0 |
| 1,3-Dichlorobenzene | Ave | 1.506 | 1.415 | 0.6000 | 9.40 | 10.0 | -6.0 | 20.0 |
| p-Isopropyltoluene | Ave | 2.486 | 2.404 | | 9.67 | 10.0 | -3.3 | 20.0 |
| 1,4-Dichlorobenzene | Ave | 1.587 | 1.474 | 0.5000 | 9.29 | 10.0 | -7.1 | 20.0 |
| n-Butylbenzene | Ave | 2.286 | 2.220 | | 9.71 | 10.0 | -2.9 | 20.0 |
| 1,2-Dichlorobenzene | Ave | 1.485 | 1.388 | 0.4000 | 9.35 | 10.0 | -6.5 | 20.0 |
| 1,2-Dibromo-3-Chloropropane | Ave | 0.0952 | 0.0894 | 0.0500 | 9.39 | 10.0 | -6.1 | 20.0 |
| 1,3,5-Trichlorobenzene | Ave | 0.7690 | 0.7641 | | 9.94 | 10.0 | -0.6 | 20.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.6818 | 0.6748 | 0.2000 | 9.90 | 10.0 | -1.0 | 20.0 |
| Hexachlorobutadiene | Ave | 0.2577 | 0.2544 | | 9.87 | 10.0 | -1.3 | 20.0 |
| Naphthalene | Ave | 2.063 | 1.886 | | 9.14 | 10.0 | -8.6 | 20.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-10670-1

SDG No.:

Lab Sample ID: CCVIS 240-42171/2  Calibration Date: 04/30/2012 11:50

Instrument ID: A3UX16  Calib Start Date: 04/29/2012 15:41

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 04/29/2012 17:34

Lab File ID: UXM5270.D  Conc. Units: ug/L  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 1,2,3-Trichlorobenzene | Ave | 0.5920 | 0.5682 | | 9.60 | 10.0 | -4.0 | 20.0 |
| Dibromofluoromethane (Surr) | Ave | 0.2389 | 0.2170 | | 9.27 | 10.2 | -9.2 | 20.0 |
| 1,2-Dichloroethane-d4 (Surr) | Ave | 0.3867 | 0.3153 | | 8.32 | 10.2 | -18.5 | 20.0 |
| Toluene-d8 (Surr) | Ave | 1.552 | 1.338 | | 8.81 | 10.2 | -13.7 | 20.0 |
| 4-Bromofluorobenzene (Surr) | Ave | 0.5538 | 0.5067 | | 9.34 | 10.2 | -8.5 | 20.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-10670-1

SDG No.:

Lab Sample ID: CCV 240-42171/3  Calibration Date: 04/30/2012 12:13

Instrument ID: A3UX16  Calib Start Date: 04/29/2012 15:41

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 04/29/2012 17:34

Lab File ID: UXM5271.D  Conc. Units: ug/L  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dibromofluoromethane (Surr) | Ave | 0.2389 | 0.2197 | | 9.39 | 10.2 | -8.1 | 20.0 |
| 1,2-Dichloroethane-d4 (Surr) | Ave | 0.3867 | 0.3395 | | 8.96 | 10.2 | -12.2 | 20.0 |
| Toluene-d8 (Surr) | Ave | 1.552 | 1.410 | | 9.28 | 10.2 | -9.1 | 20.0 |
| 4-Bromofluorobenzene (Surr) | Ave | 0.5538 | 0.5352 | | 9.87 | 10.2 | -3.4 | 20.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-10670-1

SDG No.:

Lab Sample ID: CCV 240-42171/3  Calibration Date: 04/30/2012 12:13

Instrument ID: A3UX16  Calib Start Date: 04/29/2012 17:57

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 04/29/2012 19:50

Lab File ID: UXM5271.D  Conc. Units: ug/L  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorofluoromethane | Ave | 0.5291 | 0.4967 | | 9.39 | 10.0 | -6.1 | 20.0 |
| Ethyl ether | Ave | 0.3182 | 0.2722 | | 8.56 | 10.0 | -14.4 | 20.0 |
| 3-Chloro-1-propene | Ave | 0.1408 | 0.1458 | | 10.4 | 10.0 | 3.5 | 20.0 |
| Diisopropyl ether | Ave | 0.2775 | 0.2702 | | 48.7 | 50.0 | -2.6 | 20.0 |
| 2-Chloro-1,3-butadiene | Ave | 0.5156 | 0.4999 | | 9.70 | 10.0 | -3.0 | 20.0 |
| Ethyl-t-butyl ether (ETBE) | Ave | 0.8899 | 0.8664 | | 9.74 | 10.0 | -2.6 | 20.0 |
| ~~Propionitrile~~ | Ave | 0.0386 | ~~0.0384~~ | | 19.9 | 20.0 | -0.6 | 20.0 |
| Ethyl acetate | Ave | 0.2719 | 0.2478 | | 18.2 | 20.0 | -8.9 | 20.0 |
| Methacrylonitrile | Ave | 0.1921 | 0.1753 | | 9.13 | 10.0 | -8.7 | 20.0 |
| ~~Isobutyl alcohol~~ | Ave | 0.0086 | ~~0.0076~~ | | 176 | 200 | -12.2 | 20.0 |
| Tert-amyl-methyl ether (TAME) | Ave | 0.7157 | 0.6972 | | 9.74 | 10.0 | -2.6 | 20.0 |
| ~~n-Heptane~~ | Ave | 0.0406 | ~~0.0438~~ | | 10.8 | 10.0 | 7.7 | 20.0 |
| ~~n-Butanol~~ | Lin1 | | ~~0.0054~~ | | 165 | 200 | -17.6 | 20.0 |
| ~~2-Nitropropane~~ | Qua | | ~~0.0379~~ | | 18.5 | 20.0 | -7.5 | 20.0 |
| ~~Cyclohexanone~~ | Lin1 | | 0.0798 | | 79.4 | 100 | ~~-20.6~~ | 20.0 |
| 1,2,3-Trimethylbenzene | Ave | 2.982 | 2.888 | | 9.68 | 10.0 | -3.2 | 20.0 |
| 2-Methylnaphthalene | Qua | | 0.8088 | | 16.2 | 20.0 | -19.0 | 20.0 |

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Lab File ID: UXM5273.D Lab Sample ID: MB 240-42171/5

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX16 Date Analyzed: 04/30/2012 12:59

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| | LCS 240-42171/4 | UXM5272.D | 04/30/2012 12:36 |
| TB-042512 | 240-10670-1 | UXM5280.D | 04/30/2012 15:54 |
| MT-MW05S-042512 | 240-10670-2 | UXM5281.D | 04/30/2012 16:17 |
| MT-MW01S-042512 | 240-10670-3 | UXM5282.D | 04/30/2012 16:40 |
| MT-MW03S-042512 | 240-10670-4 | UXM5283.D | 04/30/2012 17:03 |
| | 240-10350-A-5 MS | UXM5284.D | 04/30/2012 17:25 |
| | 240-10350-C-5 MSD | UXM5285.D | 04/30/2012 17:48 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-10670-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-42171/5

Matrix: Water | Lab File ID: UXM5273.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/30/2012 12:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 42171 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.23 |
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 1.0 | 0.22 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.18 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0 | U | 1.0 | 0.28 |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.15 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.19 |
| 563-58-6 | 1,1-Dichloropropene | 1.0 | U | 1.0 | 0.13 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.288 | J | 1.0 | 0.17 |
| 96-18-4 | 1,2,3-Trichloropropane | 1.0 | U | 1.0 | 0.43 |
| 526-73-8 | 1,2,3-Trimethylbenzene | 5.0 | U | 5.0 | 0.0059 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.15 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.12 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 2.0 | U | 2.0 | 0.67 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.13 |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.22 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.18 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.14 |
| 142-28-9 | 1,3-Dichloropropane | 1.0 | U | 1.0 | 0.16 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.13 |
| 594-20-7 | 2,2-Dichloropropane | 1.0 | U | 1.0 | 0.13 |
| 110-75-8 | 2-Chloroethyl vinyl ether | 10 | U | 10 | 0.99 |
| 95-49-8 | 2-Chlorotoluene | 1.0 | U | 1.0 | 0.11 |
| 591-78-6 | 2-Hexanone | 10 | U | 10 | 0.41 |
| 108-86-1 | Bromobenzene | 1.0 | U | 1.0 | 0.13 |
| 74-97-5 | Bromochloromethane | 1.0 | U | 1.0 | 0.29 |
| 106-43-4 | 4-Chlorotoluene | 1.0 | U | 1.0 | 0.18 |
| 99-87-6 | p-Isopropyltoluene | 1.0 | U | 1.0 | 0.12 |
| 67-64-1 | Acetone | 10 | U | 10 | 1.1 |
| 71-43-2 | Benzene | 1.0 | U | 1.0 | 0.13 |
| 75-25-2 | Bromoform | 1.0 | U | 1.0 | 0.64 |
| 74-83-9 | Bromomethane | 1.0 | U | 1.0 | 0.41 |
| 75-15-0 | Carbon disulfide | 1.0 | U | 1.0 | 0.13 |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 1.0 | 0.13 |
| 108-90-7 | Chlorobenzene | 1.0 | U | 1.0 | 0.15 |
| 75-00-3 | Chloroethane | 1.0 | U | 1.0 | 0.29 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-10670-1

SDG No.:

Client Sample ID:  Lab Sample ID: MB 240-42171/5

Matrix: Water  Lab File ID: UXM5273.D

Analysis Method: 8260C  Date Collected:

Sample wt/vol: 5(mL)  Date Analyzed: 04/30/2012 12:59

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 42171  Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 67-66-3 | Chloroform | 1.0 | U | 1.0 | 0.16 |
| 74-87-3 | Chloromethane | 1.0 | U | 1.0 | 0.30 |
| 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.17 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.14 |
| 87-68-3 | Hexachlorobutadiene | 1.0 | U | 1.0 | 0.30 |
| 74-95-3 | Dibromomethane | 1.0 | U | 1.0 | 0.28 |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 1.0 | 0.15 |
| 75-71-8 | Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.31 |
| 100-41-4 | Ethylbenzene | 1.0 | U | 1.0 | 0.17 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.24 |
| 108-20-3 | Diisopropyl ether | 10 | U | 10 | 1.5 |
| 91-20-3 | Naphthalene | 1.0 | U | 1.0 | 0.24 |
| 179601-23-1 | m-Xylene & p-Xylene | 2.0 | U | 2.0 | 0.24 |
| 104-51-8 | n-Butylbenzene | 1.0 | U | 1.0 | 0.12 |
| 98-82-8 | Isopropylbenzene | 1.0 | U | 1.0 | 0.13 |
| 103-65-1 | n-Propylbenzene | 1.0 | U | 1.0 | 0.14 |
| 78-93-3 | 2-Butanone | 10 | U | 10 | 0.57 |
| 108-10-1 | 4-Methyl-2-pentanone | 10 | U | 10 | 0.32 |
| 135-98-8 | sec-Butylbenzene | 1.0 | U | 1.0 | 0.13 |
| 1634-04-4 | Methyl tert-butyl ether | 5.0 | U | 5.0 | 0.17 |
| 994-05-8 | Tert-amyl-methyl ether (TAME) | 5.0 | U | 5.0 | 0.067 |
| 75-09-2 | Methylene Chloride | 1.0 | U | 1.0 | 0.33 |
| 95-47-6 | o-Xylene | 1.0 | U | 1.0 | 0.14 |
| 100-42-5 | Styrene | 1.0 | U | 1.0 | 0.11 |
| 637-92-3 | Ethyl-t-butyl ether (ETBE) | 5.0 | U | 5.0 | 0.11 |
| 98-06-6 | tert-Butylbenzene | 1.0 | U | 1.0 | 0.13 |
| 127-18-4 | Tetrachloroethene | 1.0 | U | 1.0 | 0.29 |
| 108-88-3 | Toluene | 1.0 | U | 1.0 | 0.13 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.19 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.19 |
| 79-01-6 | Trichloroethene | 1.0 | U | 1.0 | 0.17 |
| 75-69-4 | Trichlorofluoromethane | 1.0 | U | 1.0 | 0.21 |
| 108-05-4 | Vinyl acetate | 2.0 | U | 2.0 | 0.19 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 1.0 | 0.22 |
| 75-65-0 | tert-Butyl alcohol | 50 | U | 50 | 3.9 |
| 1330-20-7 | Xylenes, Total | 2.0 | U | 2.0 | 0.28 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-10670-1

SDG No.:

Client Sample ID:  Lab Sample ID: MB 240-42171/5

Matrix: Water  Lab File ID: UXM5273.D

Analysis Method: 8260C  Date Collected:

Sample wt/vol: 5(mL)  Date Analyzed: 04/30/2012 12:59

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 42171  Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | 1.0 | U | 1.0 | 0.18 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 87 | | 63-129 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 96 | | 66-117 |
| 2037-26-5 | Toluene-d8 (Surr) | 92 | | 74-115 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 86 | | 75-121 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton  Job No.: 240-10670-1

SDG No.:

Client Sample ID:  Lab Sample ID: MB 240-42171/5

Matrix: Water  Lab File ID: UXM5273.D

Analysis Method: 8260C  Date Collected:

Sample wt/vol: 5(mL)  Date Analyzed: 04/30/2012 12:59

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 42171  Units: ug/L

Number TICs Found: 1  TIC Result Total: 0.197

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| | Tentatively Identified Compound | | None | |
| 108-87-2 | Methylcyclohexane | 6.21 | 0.197 | J |

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXM5272.D

Lab ID: LCS 240-42171/4 Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 10.0 | 9.29 | 93 | 72-116 | |
| 1,1,1-Trichloroethane | 10.0 | 9.17 | 92 | 74-118 | |
| 1,1,2,2-Tetrachloroethane | 10.0 | 8.61 | 86 | 68-118 | |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 10.0 | 9.47 | 95 | 74-151 | |
| 1,1-Dichloroethane | 10.0 | 9.12 | 91 | 82-115 | |
| 1,1-Dichloroethene | 10.0 | 9.37 | 94 | 78-131 | |
| 1,1-Dichloropropene | 10.0 | 8.82 | 88 | 83-114 | |
| 1,2,3-Trichlorobenzene | 10.0 | 9.27 | 93 | 54-126 | |
| 1,2,3-Trichloropropane | 10.0 | 8.58 | 86 | 73-129 | |
| 1,2,3-Trimethylbenzene | 10.0 | 9.34 | 93 | 70-130 | |
| 1,2,4-Trichlorobenzene | 10.0 | 9.24 | 92 | 48-135 | |
| 1,2,4-Trimethylbenzene | 10.0 | 9.09 | 91 | 76-120 | |
| 1,2-Dibromo-3-Chloropropane | 10.0 | 8.48 | 85 | 42-136 | |
| 1,2-Dichlorobenzene | 10.0 | 8.87 | 89 | 81-110 | |
| 1,2-Dichloroethane | 10.0 | 9.10 | 91 | 71-127 | |
| 1,2-Dichloropropane | 10.0 | 9.15 | 92 | 81-115 | |
| 1,3-Dichlorobenzene | 10.0 | 9.09 | 91 | 80-110 | |
| 1,3-Dichloropropane | 10.0 | 8.52 | 85 | 79-116 | |
| 1,4-Dichlorobenzene | 10.0 | 8.91 | 89 | 82-110 | |
| 2,2-Dichloropropane | 10.0 | 9.51 | 95 | 50-129 | |
| 2-Chloroethyl vinyl ether | 10.0 | 8.76 J | 88 | 52-131 | |
| 2-Chlorotoluene | 10.0 | 8.59 | 86 | 76-116 | |
| 2-Hexanone | 20.0 | 17.5 | 88 | 55-133 | |
| Bromobenzene | 10.0 | 9.12 | 91 | 76-115 | |
| Bromochloromethane | 10.0 | 9.21 | 92 | 77-120 | |
| 4-Chlorotoluene | 10.0 | 8.82 | 88 | 77-115 | |
| p-Isopropyltoluene | 10.0 | 9.20 | 92 | 74-120 | |
| Acetone | 20.0 | 16.4 | 82 | 43-136 | |
| Benzene | 10.0 | 9.16 | 92 | 83-112 | |
| Bromoform | 10.0 | 8.16 | 82 | 40-131 | |
| Bromomethane | 10.0 | 7.64 | 76 | 11-185 | |
| Carbon disulfide | 10.0 | 8.61 | 86 | 62-142 | |
| Carbon tetrachloride | 10.0 | 9.19 | 92 | 66-128 | |
| Chlorobenzene | 10.0 | 8.95 | 90 | 85-110 | |
| Chloroethane | 10.0 | 8.17 | 82 | 25-153 | |
| Chloroform | 10.0 | 8.84 | 88 | 79-117 | |
| Chloromethane | 10.0 | 7.91 | 79 | 44-126 | |
| cis-1,2-Dichloroethene | 10.0 | 9.23 | 92 | 80-113 | |
| cis-1,3-Dichloropropene | 10.0 | 8.36 | 84 | 61-115 | |
| Hexachlorobutadiene | 10.0 | 8.77 | 88 | 36-134 | |
| Dibromomethane | 10.0 | 9.18 | 92 | 81-120 | |

# Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXM5272.D

Lab ID: LCS 240-42171/4 Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| Bromodichloromethane | 10.0 | 9.60 | 96 | 72-121 | |
| Dichlorodifluoromethane | 10.0 | 5.86 | 59 | 19-129 | |
| Ethylbenzene | 10.0 | 9.06 | 91 | 83-112 | |
| 1,2-Dibromoethane | 10.0 | 8.75 | 88 | 79-113 | |
| Diisopropyl ether | 10.0 | 8.74 J | 87 | 77-118 | |
| Naphthalene | 10.0 | 8.79 | 88 | 32-141 | |
| m-Xylene & p-Xylene | 20.0 | 18.0 | 90 | 83-113 | |
| n-Butylbenzene | 10.0 | 8.83 | 88 | 66-125 | |
| Isopropylbenzene | 10.0 | 9.08 | 91 | 75-114 | |
| n-Propylbenzene | 10.0 | 9.50 | 95 | 74-121 | |
| 2-Butanone | 20.0 | 16.7 | 84 | 60-126 | |
| 4-Methyl-2-pentanone | 20.0 | 17.3 | 87 | 63-128 | |
| sec-Butylbenzene | 10.0 | 8.78 | 88 | 70-117 | |
| Methyl tert-butyl ether | 10.0 | 8.66 | 87 | 52-144 | |
| Methylene Chloride | 10.0 | 8.84 | 88 | 66-131 | |
| o-Xylene | 10.0 | 9.15 | 92 | 83-113 | |
| Styrene | 10.0 | 9.27 | 93 | 79-114 | |
| tert-Butylbenzene | 10.0 | 8.95 | 90 | 71-115 | |
| Tetrachloroethene | 10.0 | 9.17 | 92 | 79-114 | |
| Toluene | 10.0 | 8.87 | 89 | 84-111 | |
| trans-1,2-Dichloroethene | 10.0 | 9.08 | 91 | 83-117 | |
| trans-1,3-Dichloropropene | 10.0 | 8.11 | 81 | 58-117 | |
| Trichloroethene | 10.0 | 9.17 | 92 | 76-117 | |
| Trichlorofluoromethane | 10.0 | 9.25 | 93 | 49-157 | |
| Vinyl acetate | 10.0 | 8.12 | 81 | 46-161 | |
| Vinyl chloride | 10.0 | 8.25 | 83 | 53-127 | |
| tert-Butyl alcohol | 200 | 167 | 84 | 70-130 | |
| Xylenes, Total | 30.0 | 27.2 | 91 | 83-112 | |
| Dibromochloromethane | 10.0 | 8.13 | 81 | 64-119 | |

# Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXM5284.D

Lab ID: 240-10350-A-5 MS Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 10.0 | 1.0 U | 9.57 | 96 | 64-118 | |
| 1,1,1-Trichloroethane | 10.0 | 1.0 U | 9.42 | 94 | 68-121 | |
| 1,1,2,2-Tetrachloroethane | 10.0 | 1.0 U | 9.56 | 96 | 63-122 | |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 10.0 | 1.0 U | 11.6 | 116 | 70-152 | |
| 1,1-Dichloroethane | 10.0 | 1.0 U | 9.26 | 93 | 79-116 | |
| 1,1-Dichloroethene | 10.0 | 1.0 U | 10.0 | 100 | 74-135 | |
| 1,1-Dichloropropene | 10.0 | 1.0 U | 9.55 | 96 | 80-114 | |
| 1,2,3-Trichlorobenzene | 10.0 | 1.0 U | 9.86 | 99 | 45-129 | |
| 1,2,3-Trichloropropane | 10.0 | 1.0 U | 9.72 | 97 | 67-132 | |
| 1,2,3-Trimethylbenzene | 10.0 | 5.0 U | 9.43 | 94 | 70-130 | |
| 1,2,4-Trichlorobenzene | 10.0 | 1.0 U | 9.37 | 94 | 38-138 | |
| 1,2,4-Trimethylbenzene | 10.0 | 1.0 U | 9.37 | 94 | 67-124 | |
| 1,2-Dibromo-3-Chloropropane | 10.0 | 2.0 U | 9.54 | 95 | 32-139 | |
| 1,2-Dichlorobenzene | 10.0 | 1.0 U | 9.15 | 92 | 75-111 | |
| 1,2-Dichloroethane | 10.0 | 1.0 U | 9.37 | 94 | 68-129 | |
| 1,2-Dichloropropane | 10.0 | 1.0 U | 9.68 | 97 | 78-115 | |
| 1,3-Dichlorobenzene | 10.0 | 1.0 U | 9.16 | 92 | 73-110 | |
| 1,3-Dichloropropane | 10.0 | 1.0 U | 9.44 | 94 | 74-118 | |
| 1,4-Dichlorobenzene | 10.0 | 1.0 U | 9.01 | 90 | 75-110 | |
| 2,2-Dichloropropane | 10.0 | 1.0 U | 9.23 | 92 | 38-127 | |
| 2-Chloroethyl vinyl ether | 10.0 | 10 U | 10 U | 0 | 10-150 | F |
| 2-Chlorotoluene | 10.0 | 1.0 U | 8.96 | 90 | 69-117 | |
| 2-Hexanone | 20.0 | 10 U | 21.3 | 107 | 47-139 | |
| Bromobenzene | 10.0 | 1.0 U | 9.39 | 94 | 71-116 | |
| Bromochloromethane | 10.0 | 1.0 U | 9.28 | 93 | 73-121 | |
| 4-Chlorotoluene | 10.0 | 1.0 U | 8.98 | 90 | 71-116 | |
| p-Isopropyltoluene | 10.0 | 1.0 U | 9.57 | 96 | 64-122 | |
| Acetone | 20.0 | 10 U | 17.7 | 89 | 33-145 | |
| Benzene | 10.0 | 1.0 U | 9.36 | 94 | 72-121 | |
| Bromoform | 10.0 | 1.0 U | 8.55 | 86 | 32-128 | |
| Bromomethane | 10.0 | 1.0 U | 4.44 | 44 | 10-186 | |
| Carbon disulfide | 10.0 | 1.0 U | 8.83 | 88 | 57-147 | |
| Carbon tetrachloride | 10.0 | 1.0 U | 9.67 | 97 | 59-129 | |
| Chlorobenzene | 10.0 | 1.0 U | 9.37 | 94 | 80-110 | |
| Chloroethane | 10.0 | 1.0 U | 6.84 | 68 | 21-165 | |
| Chloroform | 10.0 | 1.0 U | 9.03 | 90 | 76-118 | |
| Chloromethane | 10.0 | 1.0 U | 7.92 | 79 | 33-132 | |
| cis-1,2-Dichloroethene | 10.0 | 1.0 U | 9.38 | 94 | 70-120 | |
| cis-1,3-Dichloropropene | 10.0 | 1.0 U | 8.26 | 83 | 51-110 | |
| Hexachlorobutadiene | 10.0 | 1.0 U | 8.51 | 85 | 27-132 | |
| Dibromomethane | 10.0 | 1.0 U | 9.68 | 97 | 77-121 | |

# Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXM5284.D

Lab ID: 240-10350-A-5 MS Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|---|
| Bromodichloromethane | 10.0 | 1.0 U | 9.64 | 96 | 67-120 | |
| Dichlorodifluoromethane | 10.0 | 1.0 U | 7.19 | 72 | 17-128 | |
| Ethylbenzene | 10.0 | 1.0 U | 9.51 | 95 | 75-116 | |
| 1,2-Dibromoethane | 10.0 | 1.0 U | 9.96 | 100 | 74-113 | |
| Diisopropyl ether | 10.0 | 10 U | 8.79 J | 88 | 73-118 | |
| Naphthalene | 10.0 | 1.0 U | 9.96 | 100 | 15-158 | |
| m-Xylene & p-Xylene | 20.0 | 2.0 U | 19.0 | 95 | 75-117 | |
| n-Butylbenzene | 10.0 | 1.0 U | 9.11 | 91 | 56-127 | |
| Isopropylbenzene | 10.0 | 1.0 U | 9.45 | 95 | 68-116 | |
| n-Propylbenzene | 10.0 | 1.0 U | 9.58 | 96 | 64-124 | |
| 2-Butanone | 20.0 | 10 U | 19.4 | 97 | 54-129 | |
| 4-Methyl-2-pentanone | 20.0 | 10 U | 20.9 | 105 | 56-131 | |
| sec-Butylbenzene | 10.0 | 1.0 U | 9.33 | 93 | 60-119 | |
| Methyl tert-butyl ether | 10.0 | 5.0 U | 9.03 | 90 | 46-144 | |
| Methylene Chloride | 10.0 | 1.0 U | 8.65 | 87 | 63-128 | |
| o-Xylene | 10.0 | 1.0 U | 9.39 | 94 | 76-116 | |
| Styrene | 10.0 | 1.0 U | 9.60 | 96 | 71-117 | |
| tert-Butylbenzene | 10.0 | 1.0 U | 9.33 | 93 | 61-119 | |
| Tetrachloroethene | 10.0 | 1.0 U | 10.0 | 100 | 70-117 | |
| Toluene | 10.0 | 1.0 U | 9.36 | 94 | 78-114 | |
| trans-1,2-Dichloroethene | 10.0 | 1.0 U | 9.18 | 92 | 80-119 | |
| trans-1,3-Dichloropropene | 10.0 | 1.0 U | 8.16 | 82 | 46-116 | |
| Trichloroethene | 10.0 | 1.0 U | 9.41 | 94 | 66-120 | |
| Trichlorofluoromethane | 10.0 | 1.0 U | 8.71 | 87 | 46-157 | |
| Vinyl acetate | 10.0 | 2.0 U | 8.93 | 89 | 43-157 | |
| Vinyl chloride | 10.0 | 1.0 U | 9.08 | 91 | 49-130 | |
| tert-Butyl alcohol | 200 | 50 U | 217 | 109 | 70-130 | |
| Xylenes, Total | 30.0 | 2.0 U | 28.4 | 95 | 76-116 | |
| Dibromochloromethane | 10.0 | 1.0 U | 8.56 | 86 | 56-118 | |

# Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXM5285.D

Lab ID: 240-10350-C-5 MSD Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD % REC | % RPD | QC LIMITS RPD | QC LIMITS REC | # |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 10.0 | 9.67 | 97 | 1 | 30 | 64-118 | |
| 1,1,1-Trichloroethane | 10.0 | 9.09 | 91 | 4 | 30 | 68-121 | |
| 1,1,2,2-Tetrachloroethane | 10.0 | 10.1 | 101 | 5 | 30 | 63-122 | |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 10.0 | 9.92 | 99 | 16 | 30 | 70-152 | |
| 1,1-Dichloroethane | 10.0 | 9.28 | 93 | 0 | 30 | 79-116 | |
| 1,1-Dichloroethene | 10.0 | 9.69 | 97 | 3 | 30 | 74-135 | |
| 1,1-Dichloropropene | 10.0 | 9.22 | 92 | 4 | 30 | 80-114 | |
| 1,2,3-Trichlorobenzene | 10.0 | 8.21 | 82 | 18 | 30 | 45-129 | |
| 1,2,3-Trichloropropane | 10.0 | 9.80 | 98 | 1 | 30 | 67-132 | |
| 1,2,3-Trimethylbenzene | 10.0 | 9.03 | 90 | 4 | 30 | 70-130 | |
| 1,2,4-Trichlorobenzene | 10.0 | 7.84 | 78 | 18 | 30 | 38-138 | |
| 1,2,4-Trimethylbenzene | 10.0 | 9.00 | 90 | 4 | 30 | 67-124 | |
| 1,2-Dibromo-3-Chloropropane | 10.0 | 9.69 | 97 | 2 | 30 | 32-139 | |
| 1,2-Dichlorobenzene | 10.0 | 8.74 | 87 | 5 | 30 | 75-111 | |
| 1,2-Dichloroethane | 10.0 | 9.04 | 90 | 4 | 30 | 68-129 | |
| 1,2-Dichloropropane | 10.0 | 9.25 | 93 | 5 | 30 | 78-115 | |
| 1,3-Dichlorobenzene | 10.0 | 8.99 | 90 | 2 | 30 | 73-110 | |
| 1,3-Dichloropropane | 10.0 | 9.43 | 94 | 0 | 30 | 74-118 | |
| 1,4-Dichlorobenzene | 10.0 | 8.88 | 89 | 1 | 30 | 75-110 | |
| 2,2-Dichloropropane | 10.0 | 8.87 | 89 | 4 | 30 | 38-127 | |
| 2-Chloroethyl vinyl ether | 10.0 | 10 U | 0 | NC | 30 | 10-150 | F |
| 2-Chlorotoluene | 10.0 | 9.37 | 94 | 4 | 30 | 69-117 | |
| 2-Hexanone | 20.0 | 20.5 | 103 | 4 | 30 | 47-139 | |
| Bromobenzene | 10.0 | 9.57 | 96 | 2 | 30 | 71-116 | |
| Bromochloromethane | 10.0 | 8.92 | 89 | 4 | 30 | 73-121 | |
| 4-Chlorotoluene | 10.0 | 9.06 | 91 | 1 | 30 | 71-116 | |
| p-Isopropyltoluene | 10.0 | 8.93 | 89 | 7 | 30 | 64-122 | |
| Acetone | 20.0 | 13.9 | 70 | 24 | 30 | 33-145 | |
| Benzene | 10.0 | 9.16 | 92 | 2 | 30 | 72-121 | |
| Bromoform | 10.0 | 8.51 | 85 | 0 | 30 | 32-128 | |
| Bromomethane | 10.0 | 5.19 | 52 | 16 | 30 | 10-186 | |
| Carbon disulfide | 10.0 | 8.03 | 80 | 9 | 30 | 57-147 | |
| Carbon tetrachloride | 10.0 | 9.13 | 91 | 6 | 30 | 59-129 | |
| Chlorobenzene | 10.0 | 9.23 | 92 | 2 | 30 | 80-110 | |
| Chloroethane | 10.0 | 6.73 | 67 | 2 | 30 | 21-165 | |
| Chloroform | 10.0 | 8.90 | 89 | 1 | 30 | 76-118 | |
| Chloromethane | 10.0 | 8.81 | 88 | 11 | 30 | 33-132 | |
| cis-1,2-Dichloroethene | 10.0 | 9.27 | 93 | 1 | 30 | 70-120 | |
| cis-1,3-Dichloropropene | 10.0 | 7.99 | 80 | 3 | 30 | 51-110 | |
| Hexachlorobutadiene | 10.0 | 6.53 | 65 | 26 | 30 | 27-132 | |
| Dibromomethane | 10.0 | 9.52 | 95 | 2 | 30 | 77-121 | |

# Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXM5285.D

Lab ID: 240-10350-C-5 MSD Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD % REC | % RPD | QC LIMITS RPD | QC LIMITS REC | # |
|---|---|---|---|---|---|---|---|
| Bromodichloromethane | 10.0 | 9.34 | 93 | 3 | 30 | 67-120 | |
| Dichlorodifluoromethane | 10.0 | 5.82 | 58 | 21 | 30 | 17-128 | |
| Ethylbenzene | 10.0 | 9.29 | 93 | 2 | 30 | 75-116 | |
| 1,2-Dibromoethane | 10.0 | 9.55 | 96 | 4 | 30 | 74-113 | |
| Diisopropyl ether | 10.0 | 8.71 J | 87 | 1 | 30 | 73-118 | |
| Naphthalene | 10.0 | 8.36 | 84 | 17 | 30 | 15-158 | |
| m-Xylene & p-Xylene | 20.0 | 18.3 | 92 | 4 | 30 | 75-117 | |
| n-Butylbenzene | 10.0 | 8.35 | 84 | 9 | 30 | 56-127 | |
| Isopropylbenzene | 10.0 | 9.07 | 91 | 4 | 30 | 68-116 | |
| n-Propylbenzene | 10.0 | 9.61 | 96 | 0 | 30 | 64-124 | |
| 2-Butanone | 20.0 | 17.6 | 88 | 10 | 30 | 54-129 | |
| 4-Methyl-2-pentanone | 20.0 | 20.2 | 101 | 3 | 30 | 56-131 | |
| sec-Butylbenzene | 10.0 | 8.71 | 87 | 7 | 30 | 60-119 | |
| Methyl tert-butyl ether | 10.0 | 8.88 | 89 | 2 | 30 | 46-144 | |
| Methylene Chloride | 10.0 | 8.38 | 84 | 3 | 30 | 63-128 | |
| o-Xylene | 10.0 | 9.08 | 91 | 3 | 30 | 76-116 | |
| Styrene | 10.0 | 9.26 | 93 | 4 | 30 | 71-117 | |
| tert-Butylbenzene | 10.0 | 9.04 | 90 | 3 | 30 | 61-119 | |
| Tetrachloroethene | 10.0 | 9.57 | 96 | 4 | 30 | 70-117 | |
| Toluene | 10.0 | 9.29 | 93 | 1 | 30 | 78-114 | |
| trans-1,2-Dichloroethene | 10.0 | 8.99 | 90 | 2 | 30 | 80-119 | |
| trans-1,3-Dichloropropene | 10.0 | 8.50 | 85 | 4 | 30 | 46-116 | |
| Trichloroethene | 10.0 | 9.19 | 92 | 2 | 30 | 66-120 | |
| Trichlorofluoromethane | 10.0 | 8.33 | 83 | 4 | 30 | 46-157 | |
| Vinyl acetate | 10.0 | 9.09 | 91 | 2 | 30 | 43-157 | |
| Vinyl chloride | 10.0 | 8.71 | 87 | 4 | 30 | 49-130 | |
| tert-Butyl alcohol | 200 | 159 | 79 | 31 | 30 | 70-130 | F |
| Xylenes, Total | 30.0 | 27.4 | 91 | 4 | 30 | 76-116 | |
| Dibromochloromethane | 10.0 | 8.69 | 87 | 2 | 30 | 56-118 | |

# Column to be used to flag recovery and RPD values

FORM III 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

| Client Sample ID | Lab Sample ID | DBFM # | DCA # | TOL # | BFB # |
|---|---|---|---|---|---|
| TB-042512 | 240-10670-1 | 82 | 83 | 85 | 88 |
| MT-MW05S-042512 | 240-10670-2 | 80 | 81 | 86 | 89 |
| MT-MW01S-042512 | 240-10670-3 | 81 | 83 | 86 | 90 |
| MT-MW03S-042512 | 240-10670-4 | 86 | 87 | 91 | 93 |
| | MB 240-42171/5 | 86 | 87 | 92 | 96 |
| | LCS 240-42171/4 | 84 | 80 | 83 | 90 |
| | 240-10350-A-5 MS | 86 | 84 | 90 | 93 |
| | 240-10350-C-5 MSD | 86 | 83 | 89 | 88 |

| | QC LIMITS |
|---|---|
| DBFM = Dibromofluoromethane (Surr) | 75-121 |
| DCA = 1,2-Dichloroethane-d4 (Surr) | 63-129 |
| TOL = Toluene-d8 (Surr) | 74-115 |
| BFB = 4-Bromofluorobenzene (Surr) | 66-117 |

# Column to be used to flag recovery values

FORM II 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton  Job No.: 240-10670-1

SDG No.:

Sample No.: STD8260 240-42092/4  Date Analyzed: 04/29/2012 16:26

Instrument ID: A3UX16  GC Column: DB-624  ID: 0.18(mm)

Lab File ID (Standard): UXM5241.D  Heated Purge: (Y/N) N

Calibration ID: 8426

| | | FB | | CBZ | | DCB | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | | 1530000 | 5.70 | 1036987 | 8.39 | 499405 | 10.64 |
| UPPER LIMIT | | 3060000 | 6.20 | 2073974 | 8.89 | 998810 | 11.14 |
| LOWER LIMIT | | 765000 | 5.20 | 518494 | 7.89 | 249703 | 10.14 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| ICV 240-42092/14 | | 1382789 | 5.70 | 929711 | 8.39 | 462842 | 10.64 |
| CCVIS 240-42171/2 | | 1827438 | 5.70 | 1228317 | 8.39 | 614323 | 10.64 |

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Sample No.: CCVIS 240-42171/2 Date Analyzed: 04/30/2012 11:50

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXM5270.D Heated Purge: (Y/N) N

Calibration ID: 8428

| | | FB | | CBZ | | DCB | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 1827438 | 5.70 | 1228317 | 8.39 | 614323 | 10.64 |
| UPPER LIMIT | | 3654876 | 6.20 | 2456634 | 8.89 | 1228646 | 11.14 |
| LOWER LIMIT | | 913719 | 5.20 | 614159 | 7.89 | 307162 | 10.14 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| CCV 240-42171/3 | | 1675303 | 5.70 | 1143405 | 8.39 | 543922 | 10.64 |
| LCS 240-42171/4 | | 1858112 | 5.70 | 1240826 | 8.39 | 615173 | 10.64 |
| MB 240-42171/5 | | 1636782 | 5.70 | 1107392 | 8.39 | 536650 | 10.64 |
| 240-10670-1 | TB-042512 | 1728642 | 5.70 | 1158395 | 8.39 | 560774 | 10.64 |
| 240-10670-2 | MT-MW05S-042512 | 1739898 | 5.70 | 1159226 | 8.39 | 556455 | 10.64 |
| 240-10670-3 | MT-MW01S-042512 | 1708185 | 5.70 | 1126282 | 8.39 | 536921 | 10.64 |
| 240-10670-4 | MT-MW03S-042512 | 1629127 | 5.70 | 1072431 | 8.39 | 520849 | 10.64 |
| 240-10350-A-5 MS | | 1710874 | 5.70 | 1135916 | 8.39 | 559548 | 10.64 |
| 240-10350-C-5 MSD | | 1786806 | 5.70 | 1151558 | 8.39 | 541302 | 10.64 |

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8260C

# Method 8270C

## Semivolatile Organic Compounds (GC/MS) by Method 8270C

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Lab File ID: 20502001.D DFTPP Injection Date: 05/02/2012

Instrument ID: A4HP7 DFTPP Injection Time: 10:03

Analysis Batch No.: 42463

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 51 | 30.0- 80.0% of mass 198 | 60.2 | |
| 68 | Less than 2.0% of mass 69 | 0.0 | (0.0)1 |
| 69 | Mass 69 relative abundance | 45.5 | |
| 70 | Less than 2.0% of mass 69 | 0.2 | (0.5)1 |
| 127 | 25.0 - 75.0% of mass 198 | 50.3 | |
| 197 | Less than 1.0% of mass 198 | 0.0 | |
| 198 | Base Peak, 100% relative abundance | 100.0 | |
| 199 | 5.0 to 9.0% of mass 198 | 6.8 | |
| 275 | 10.0- 30.0% of mass 198 | 23.2 | |
| 365 | Greater than 0.75% of mass 198 | 2.0 | |
| 441 | Present, but less than mass 443 | 7.0 | |
| 442 | 40.0 - 110.0% of mass 198 | 44.8 | |
| 443 | 15.0 - 24.0% of mass 442 | 8.8 | (19.6)2 |

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | STD5 240-42463/2 | 20502002.D | 05/02/2012 | 10:23 |
| | STD4 240-42463/3 | 20502003.D | 05/02/2012 | 10:42 |
| | STD3 240-42463/4 | 20502004.D | 05/02/2012 | 11:01 |
| | STD2 240-42463/5 | 20502005.D | 05/02/2012 | 11:19 |
| | STD1 240-42463/6 | 20502006.D | 05/02/2012 | 11:38 |
| | STD9 240-42463/7 | 20502007.D | 05/02/2012 | 11:57 |
| | STD8 240-42463/8 | 20502008.D | 05/02/2012 | 12:16 |
| | STD7 240-42463/9 | 20502009.D | 05/02/2012 | 12:35 |
| | STD6 240-42463/10 | 20502010.D | 05/02/2012 | 12:54 |
| | ICV 240-42463/11 | 20502011.D | 05/02/2012 | 13:13 |
| | ICV 240-42463/29 | 20502029.D | 05/02/2012 | 19:09 |

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-10670-1  Analy Batch No.: 42463

SDG No.:

Instrument ID: A4HP7  GC Column: RXI-5SILMS  ID: 0.45(mm)  Heated Purge: (Y/N) N

Calibration Start Date: 05/02/2012 10:23  Calibration End Date: 05/02/2012 12:54  Calibration ID: 8490

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-42463/6 | 20502006.D |
| Level 2 | STD2 240-42463/5 | 20502005.D |
| Level 3 | STD3 240-42463/4 | 20502004.D |
| Level 4 | STD4 240-42463/3 | 20502003.D |
| Level 5 | STD5 240-42463/2 | 20502002.D |
| Level 6 | STD6 240-42463/10 | 20502010.D |
| Level 7 | STD7 240-42463/9 | 20502009.D |
| Level 8 | STD8 240-42463/8 | 20502008.D |
| Level 9 | STD9 240-42463/7 | 20502007.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1 LVL 6 | LVL 2 LVL 7 | LVL 3 LVL 8 | LVL 4 LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 1,4-Dioxane | 0.5797 | 0.7266 0.5728 | 0.4617 0.6094 | 0.5087 0.5684 | 0.4851 | Ave | | 0.5640 | | | | 15.0 | | 15.0 | | | |
| N-Nitrosodimethylamine | 0.8841 | 0.7933 0.8811 | 0.7168 0.9316 | 0.7448 0.9112 | 0.7452 | Ave | | 0.8260 | | | | 10.0 | | 15.0 | | | |
| Pyridine | 1.5075 | 1.3258 1.5146 | 1.1707 1.6776 | 1.1870 1.6034 | 1.1707 | Ave | | 1.3947 | | | | 15.0 | | 15.0 | | | |
| Ethyl methacrylate | 1.1731 | 0.9728 1.1757 | 1.0484 1.2864 | 1.0037 1.2062 | 1.0290 | Ave | | 1.1119 | | | | 10.0 | | 15.0 | | | |
| Benzaldehyde | 1.3735 0.7433 | 1.0441 +++++ | 1.0548 +++++ | 1.0867 +++++ | 0.9578 | Ave | | 1.0434 | | | | 20.0 | * | 15.0 | | | |
| 3-Chloropropionitrile | 1.0012 | 0.9519 1.0222 | 0.9033 1.1093 | 0.8667 1.0492 | 0.8718 | Ave | | 0.9719 | | | | 9.1 | | 15.0 | | | |
| Malononitrile | 1.5032 | 1.4102 1.2671 | 1.3756 1.2102 | 1.4463 1.0266 | 1.4564 | Ave | | 1.3370 | | | | 12.0 | | 15.0 | | | |
| Benzoic acid | 0.2334 | +++++ 0.2441 | +++++ 0.2610 | 0.1647 0.2825 | 0.2322 | Qua | 0.0075 | 0.1951 | 0.0017 | | | | | | 0.9990 | | 0.9900 |
| Phenol | 1.7085 | 1.5885 1.7359 | 1.4815 1.9095 | 1.5782 1.8649 | 1.5731 | Ave | | 1.6800 | | | | 9.0 | | 15.0 | | | |
| Aniline | 2.1278 | 1.9210 2.1146 | 1.8743 2.3821 | 2.0349 2.3349 | 1.9327 | Ave | | 2.0903 | | | | 9.0 | | 15.0 | | | |
| Bis(2-chloroethyl)ether | 1.2927 | 1.2120 1.4453 | 1.3088 1.4464 | 1.1722 1.4211 | 1.1887 | Ave | | 1.3109 | | | | 8.8 | | 15.0 | | | |
| 2-Chlorophenol | 1.5020 | 1.3476 1.5269 | 1.3800 1.6760 | 1.4496 1.6251 | 1.4098 | Ave | | 1.4896 | | | | 7.8 | | 15.0 | | | |
| 1,3-Dichlorobenzene | 1.6350 | 1.3701 1.6113 | 1.5553 1.7820 | 1.5792 1.6988 | 1.5113 | Ave | | 1.5929 | | | | 7.8 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-10670-1 Analy Batch No.: 42463

SDG No.:

Instrument ID: A4HP7 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/02/2012 10:23 Calibration End Date: 05/02/2012 12:54 Calibration ID: 8490

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-42463/6 | 20502006.D |
| Level 2 | STD2 240-42463/5 | 20502005.D |
| Level 3 | STD3 240-42463/4 | 20502004.D |
| Level 4 | STD4 240-42463/3 | 20502003.D |
| Level 5 | STD5 240-42463/2 | 20502002.D |
| Level 6 | STD6 240-42463/10 | 20502010.D |
| Level 7 | STD7 240-42463/9 | 20502009.D |
| Level 8 | STD8 240-42463/8 | 20502008.D |
| Level 9 | STD9 240-42463/7 | 20502007.D |

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (NG/UL) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 |
| 1,4-Dioxane | DCB | Ave | 295395 | 15059<br>438022 | 23147<br>625497 | 45772<br>673269 | 99759 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| N-Nitrosodimethylamine | DCB | Ave | 450536 | 16441<br>673759 | 35936<br>956142 | 67018<br>1079397 | 153230 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Pyridine | DCB | Ave | 768213 | 27478<br>1158210 | 58696<br>1721786 | 106807<br>1899329 | 240725 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Ethyl methacrylate | DCB | Ave | 597788 | 20162<br>899063 | 52561<br>1320239 | 90314<br>1428878 | 211595 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Benzaldehyde | DCB | Ave | 6716<br>378785 | 21639<br>+++++ | 52883<br>+++++ | 97785<br>+++++ | 196945 | 0.100<br>10.0 | 0.500<br>+++++ | 1.00<br>+++++ | 2.00<br>+++++ | 5.00 |
| 3-Chloropropionitrile | DCB | Ave | 510186 | 19728<br>781632 | 45289<br>1138488 | 77990<br>1242817 | 179271 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Malononitrile | DCB | Ave | 766019 | 29227<br>968969 | 68966<br>1242126 | 130144<br>1216141 | 299474 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Benzoic acid | NPT | Qua | 875958 | +++++<br>1316669 | +++++<br>1896774 | 116824<br>2481316 | 377621 | 20.0 | +++++<br>30.0 | +++++<br>40.0 | 4.00<br>50.0 | 10.0 |
| Phenol | DCB | Ave | 870609 | 32922<br>1327444 | 74279<br>1959830 | 142015<br>2209157 | 323473 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Aniline | DCB | Ave | 1084265 | 39813<br>1617005 | 93973<br>2444854 | 183107<br>2765811 | 397413 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Bis(2-chloroethyl)ether | DCB | Ave | 658742 | 25119<br>1105232 | 65620<br>1484510 | 105481<br>1683453 | 244438 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 2-Chlorophenol | DCB | Ave | 765390 | 27929<br>1167612 | 69190<br>1720143 | 130437<br>1925074 | 289895 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 1,3-Dichlorobenzene | DCB | Ave | 833174 | 28397<br>1232139 | 77977<br>1828913 | 142098<br>2012335 | 310759 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Caprolactam | NPT | Qua | 213594 | +++++<br>328191 | 11115<br>466991 | 31422<br>+++++ | 84526 | 10.0 | +++++<br>15.0 | 1.00<br>20.0 | 2.00<br>+++++ | 5.00 |

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-10670-1

SDG No.:

Lab Sample ID: ICV 240-42463/11  Calibration Date: 05/02/2012 13:13

Instrument ID: A4HP7  Calib Start Date: 05/02/2012 10:23

GC Column: RXI-5SILMS  ID: 0.45(mm)  Calib End Date: 05/02/2012 12:54

Lab File ID: 20502011.D  Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | Ave | 0.5640 | 0.5264 | | 9.33 | 10.0 | -6.7 | 50.0 |
| N-Nitrosodimethylamine | Ave | 0.8260 | 0.8251 | | 9.99 | 10.0 | -0.1 | 50.0 |
| Pyridine | Ave | 1.395 | 1.479 | | 10.6 | 10.0 | 6.0 | 50.0 |
| Ethyl methacrylate | Ave | 1.112 | 1.109 | | 9.97 | 10.0 | -0.3 | 50.0 |
| 3-Chloropropionitrile | Ave | 0.9719 | 0.9803 | | 10.1 | 10.0 | 0.9 | 50.0 |
| Malononitrile | Ave | 1.337 | 1.496 | | 11.2 | 10.0 | 11.9 | 50.0 |
| Benzaldehyde | Ave | 1.043 | 0.6145 | | 5.89 | 10.0 | -41.1 | 50.0 |
| Phenol | Ave | 1.680 | 1.722 | | 10.2 | 10.0 | 2.5 | 20.0 |
| Aniline | Ave | 2.090 | 2.144 | | 10.3 | 10.0 | 2.6 | 50.0 |
| Bis(2-chloroethyl)ether | Ave | 1.311 | 1.327 | | 10.1 | 10.0 | 1.2 | 50.0 |
| 2-Chlorophenol | Ave | 1.490 | 1.506 | | 10.1 | 10.0 | 1.1 | 50.0 |
| 1,3-Dichlorobenzene | Ave | 1.593 | 1.567 | | 9.84 | 10.0 | -1.6 | 50.0 |
| 1,4-Dichlorobenzene | Ave | 1.646 | 1.623 | | 9.86 | 10.0 | -1.4 | 20.0 |
| Benzyl alcohol | Ave | 0.8859 | 0.8898 | | 10.0 | 10.0 | 0.4 | 50.0 |
| 1,2-Dichlorobenzene | Ave | 1.544 | 1.517 | | 9.83 | 10.0 | -1.7 | 50.0 |
| 2-Methylphenol | Ave | 1.290 | 1.293 | | 10.0 | 10.0 | 0.2 | 50.0 |
| bis (2-chloroisopropyl) ether | Ave | 1.740 | 1.616 | | 9.29 | 10.0 | -7.1 | 50.0 |
| 3 & 4 Methylphenol | Ave | 1.324 | 1.366 | | 10.3 | 10.0 | 3.2 | 50.0 |
| N-Nitrosodi-n-propylamine | Ave | 0.8988 | 0.8701 | 0.0500 | 9.68 | 10.0 | -3.2 | 50.0 |
| Acetophenone | Ave | 1.873 | 1.869 | | 9.98 | 10.0 | -0.2 | 50.0 |
| Hexachloroethane | Ave | 0.5453 | 0.5299 | | 9.72 | 10.0 | -2.8 | 50.0 |
| Nitrobenzene | Ave | 0.3636 | 0.3573 | | 9.83 | 10.0 | -1.7 | 50.0 |
| Isophorone | Ave | 0.6461 | 0.6605 | | 10.2 | 10.0 | 2.2 | 50.0 |
| 2,4-Dimethylphenol | Ave | 0.3785 | 0.3876 | | 10.2 | 10.0 | 2.4 | 50.0 |
| 2-Nitrophenol | Ave | 0.2067 | 0.2181 | | 10.5 | 10.0 | 5.5 | 20.0 |
| 1,3,5-Trichlorobenzene | Ave | 0.3633 | 0.3733 | | 10.3 | 10.0 | 2.8 | 50.0 |
| Bis(2-chloroethoxy)methane | Ave | 0.3739 | 0.3789 | | 10.1 | 10.0 | 1.3 | 50.0 |
| Benzoic acid | Qua | | 0.2340 | | 20.3 | 20.0 | 1.5 | 50.0 |
| 2,4-Dichlorophenol | Ave | 0.3173 | 0.3295 | | 10.4 | 10.0 | 3.8 | 20.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.3480 | 0.3617 | | 10.4 | 10.0 | 3.9 | 50.0 |
| Naphthalene | Ave | 1.144 | 1.159 | | 10.1 | 10.0 | 1.3 | 50.0 |
| 4-Chloroaniline | Ave | 0.4747 | 0.4591 | | 9.67 | 10.0 | -3.3 | 50.0 |
| Hexachlorobutadiene | Ave | 0.1832 | 0.1824 | | 9.96 | 10.0 | -0.4 | 20.0 |
| 1,2,3-Trichlorobenzene | Ave | 0.3305 | 0.3260 | | 9.86 | 10.0 | -1.4 | 50.0 |
| Caprolactam | Qua | | 0.1203 | | 10.5 | 10.0 | 5.0 | 50.0 |
| 4-Chloro-3-methylphenol | Ave | 0.3023 | 0.3207 | | 10.6 | 10.0 | 6.1 | 20.0 |
| 2-Methylnaphthalene | Ave | 0.7358 | 0.7408 | | 10.1 | 10.0 | 0.7 | 50.0 |
| 1-Methylnaphthalene | Ave | 0.7008 | 0.7068 | | 10.1 | 10.0 | 0.8 | 50.0 |
| 1,2,3,5-Tetrachlorobenzene | Ave | 0.5580 | 0.5505 | | 9.87 | 10.0 | -1.3 | 50.0 |
| Hexachlorocyclopentadiene | Ave | 0.3259 | 0.3366 | 0.0500 | 10.3 | 10.0 | 3.3 | 50.0 |

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Lab File ID: 20504001.D DFTPP Injection Date: 05/04/2012

Instrument ID: A4HP7 DFTPP Injection Time: 09:24

Analysis Batch No.: 42787

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 51 | 30.0- 80.0% of mass 198 | 63.4 | |
| 68 | Less than 2.0% of mass 69 | 0.0 | (0.0)1 |
| 69 | Mass 69 relative abundance | 61.5 | |
| 70 | Less than 2.0% of mass 69 | 0.4 | (0.6)1 |
| 127 | 25.0 - 75.0% of mass 198 | 61.4 | |
| 197 | Less than 1.0% of mass 198 | 0.0 | |
| 198 | Base Peak, 100% relative abundance | 100.0 | |
| 199 | 5.0 to 9.0% of mass 198 | 6.8 | |
| 275 | 10.0- 30.0% of mass 198 | 25.9 | |
| 365 | Greater than 0.75% of mass 198 | 3.0 | |
| 441 | Present, but less than mass 443 | 11.0 | |
| 442 | 40.0 - 110.0% of mass 198 | 71.9 | |
| 443 | 15.0 - 24.0% of mass 442 | 13.9 | (19.3)2 |

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | CCV 240-42787/2 | 20504002.D | 05/04/2012 | 09:42 |
| | CCV 240-42787/4 | 20504004.D | 05/04/2012 | 10:20 |
| | MB 240-42319/22-A | 20504005.D | 05/04/2012 | 10:39 |
| | LCS 240-42319/23-A | 20504006.D | 05/04/2012 | 10:57 |
| | 240-10623-N-4-A MS | 20504011.D | 05/04/2012 | 12:31 |
| | 240-10623-P-4-A MSD | 20504012.D | 05/04/2012 | 12:49 |
| MT-MW05S-042512 | 240-10670-2 | 20504026.D | 05/04/2012 | 17:10 |
| MT-MW01S-042512 | 240-10670-3 | 20504027.D | 05/04/2012 | 17:29 |
| MT-MW03S-042512 | 240-10670-4 | 20504028.D | 05/04/2012 | 17:48 |

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Lab Sample ID: CCV 240-42787/2 Calibration Date: 05/04/2012 09:42

Instrument ID: A4HP7 Calib Start Date: 05/02/2012 10:23

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 05/02/2012 12:54

Lab File ID: 20504002.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | Ave | 0.5640 | 0.5147 | | 9.13 | 10.0 | -8.7 | 50.0 |
| N-Nitrosodimethylamine | Ave | 0.8260 | 0.7894 | | 9.56 | 10.0 | -4.4 | 50.0 |
| Pyridine | Ave | 1.395 | 1.305 | | 9.35 | 10.0 | -6.5 | 50.0 |
| Ethyl methacrylate | Ave | 1.112 | 1.085 | | 9.76 | 10.0 | -2.4 | 50.0 |
| 3-Chloropropionitrile | Ave | 0.9719 | 0.7970 | | 8.20 | 10.0 | -18.0 | 50.0 |
| Malononitrile | Ave | 1.337 | 1.282 | | 9.59 | 10.0 | -4.1 | 50.0 |
| Benzaldehyde | Ave | 1.043 | 0.6837 | | 6.55 | 10.0 | -34.5 | 50.0 |
| Phenol | Ave | 1.680 | 1.659 | | 9.87 | 10.0 | -1.3 | 20.0 |
| Aniline | Ave | 2.090 | 2.047 | | 9.79 | 10.0 | -2.1 | 50.0 |
| Bis(2-chloroethyl)ether | Ave | 1.311 | 1.492 | | 11.4 | 10.0 | 13.8 | 50.0 |
| 2-Chlorophenol | Ave | 1.490 | 1.515 | | 10.2 | 10.0 | 1.7 | 50.0 |
| 1,3-Dichlorobenzene | Ave | 1.593 | 1.618 | | 10.2 | 10.0 | 1.6 | 50.0 |
| 1,4-Dichlorobenzene | Ave | 1.646 | 1.651 | | 10.0 | 10.0 | 0.3 | 50.0 |
| Benzyl alcohol | Ave | 0.8859 | 0.8461 | | 9.55 | 10.0 | -4.5 | 50.0 |
| 1,2-Dichlorobenzene | Ave | 1.544 | 1.543 | | 10.0 | 10.0 | 0.0 | 50.0 |
| 2-Methylphenol | Ave | 1.290 | 1.264 | | 9.79 | 10.0 | -2.1 | 50.0 |
| bis (2-chloroisopropyl) ether | Ave | 1.740 | 1.620 | | 9.31 | 10.0 | -6.9 | 50.0 |
| 3 & 4 Methylphenol | Ave | 1.324 | 1.318 | | 9.96 | 10.0 | -0.4 | 50.0 |
| N-Nitrosodi-n-propylamine | Ave | 0.8988 | 0.8955 | 0.0500 | 9.96 | 10.0 | -0.4 | 50.0 |
| Acetophenone | Ave | 1.873 | 1.930 | | 10.3 | 10.0 | 3.1 | 50.0 |
| Hexachloroethane | Ave | 0.5453 | 0.5812 | | 10.7 | 10.0 | 6.6 | 50.0 |
| Nitrobenzene | Ave | 0.3636 | 0.3799 | | 10.4 | 10.0 | 4.5 | 50.0 |
| Isophorone | Ave | 0.6461 | 0.6547 | | 10.1 | 10.0 | 1.3 | 50.0 |
| 2,4-Dimethylphenol | Ave | 0.3785 | 0.3787 | | 10.0 | 10.0 | 0.0 | 50.0 |
| 2-Nitrophenol | Ave | 0.2067 | 0.2099 | | 10.2 | 10.0 | 1.5 | 20.0 |
| 1,3,5-Trichlorobenzene | Ave | 0.3633 | 0.3340 | | 9.19 | 10.0 | -8.1 | 50.0 |
| Bis(2-chloroethoxy)methane | Ave | 0.3739 | 0.3742 | | 10.0 | 10.0 | 0.0 | 50.0 |
| Benzoic acid | Qua | | 0.1954 | | 17.4 | 20.0 | -13.0 | 50.0 |
| 2,4-Dichlorophenol | Ave | 0.3173 | 0.2927 | | 9.22 | 10.0 | -7.8 | 20.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.3480 | 0.3279 | | 9.42 | 10.0 | -5.8 | 50.0 |
| Naphthalene | Ave | 1.144 | 1.109 | | 9.69 | 10.0 | -3.1 | 50.0 |
| 4-Chloroaniline | Ave | 0.4747 | 0.4510 | | 9.50 | 10.0 | -5.0 | 50.0 |
| Hexachlorobutadiene | Ave | 0.1832 | 0.1632 | | 8.91 | 10.0 | -10.9 | 20.0 |
| 1,2,3-Trichlorobenzene | Ave | 0.3305 | 0.3012 | | 9.11 | 10.0 | -8.9 | 50.0 |
| Caprolactam | Qua | | 0.1171 | | 10.2 | 10.0 | 2.0 | 50.0 |
| 4-Chloro-3-methylphenol | Ave | 0.3023 | 0.3115 | | 10.3 | 10.0 | 3.0 | 20.0 |
| 2-Methylnaphthalene | Ave | 0.7358 | 0.7205 | | 9.79 | 10.0 | -2.1 | 50.0 |
| 1-Methylnaphthalene | Ave | 0.7008 | 0.6837 | | 9.76 | 10.0 | -2.4 | 50.0 |
| 1,2,3,5-Tetrachlorobenzene | Ave | 0.5580 | 0.5328 | | 9.55 | 10.0 | -4.5 | 50.0 |
| Hexachlorocyclopentadiene | Ave | 0.3259 | 0.3398 | 0.0500 | 10.4 | 10.0 | 4.3 | 50.0 |

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Lab File ID: 20504005.D Lab Sample ID: MB 240-42319/22-A

Matrix: Water Date Extracted: 05/01/2012 10:12

Instrument ID: A4HP7 Date Analyzed: 05/04/2012 10:39

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| | LCS 240-42319/23-A | 20504006.D | 05/04/2012 10:57 |
| | 240-10623-N-4-A MS | 20504011.D | 05/04/2012 12:31 |
| | 240-10623-P-4-A MSD | 20504012.D | 05/04/2012 12:49 |
| MT-MW05S-042512 | 240-10670-2 | 20504026.D | 05/04/2012 17:10 |
| MT-MW01S-042512 | 240-10670-3 | 20504027.D | 05/04/2012 17:29 |
| MT-MW03S-042512 | 240-10670-4 | 20504028.D | 05/04/2012 17:48 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-10670-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-42319/22-A

Matrix: Water | Lab File ID: 20504005.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3520C | Date Extracted: 05/01/2012 10:12

Sample wt/vol: 1000(mL) | Date Analyzed: 05/04/2012 10:39

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 42787 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 123-91-1 | 1,4-Dioxane | 1.0 | U | 1.0 | 0.49 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 321-60-8 | 2-Fluorobiphenyl (Surr) | 60 | | 28-110 |
| 367-12-4 | 2-Fluorophenol (Surr) | 71 | | 10-110 |
| 118-79-6 | 2,4,6-Tribromophenol (Surr) | 85 | | 22-120 |
| 4165-60-0 | Nitrobenzene-d5 (Surr) | 67 | | 27-111 |
| 4165-62-2 | Phenol-d5 (Surr) | 72 | | 10-110 |
| 1718-51-0 | Terphenyl-d14 (Surr) | 90 | | 37-119 |

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 20504006.D

Lab ID: LCS 240-42319/23-A Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| 1,4-Dioxane | 20.0 | 10.2 | 51 | 10-110 | |

# Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 20504011.D

Lab ID: 240-10623-N-4-A MS Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|---|
| 1,4-Dioxane | 19.8 | 2.3 | 12.7 | 53 | 10-110 | |

# Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 20504012.D

Lab ID: 240-10623-P-4-A MSD Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD % REC | % RPD | QC LIMITS RPD | QC LIMITS REC | # |
|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 19.0 | 11.8 | 50 | 8 | 30 | 10-110 | |

# Column to be used to flag recovery and RPD values

FORM III 8270C

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): RXI-5SILMS ID: 0.45 (mm)

| Client Sample ID | Lab Sample ID | 2FP # | PHL # | NBZ # | FBP # | TBP # | TPH # |
|---|---|---|---|---|---|---|---|
| MT-MW05S-042512 | 240-10670-2 | 6 X | 6 X | 39 | 40 | 15 X | 71 |
| MT-MW01S-042512 | 240-10670-3 | 61 | 58 | 56 | 51 | 83 | 64 |
| MT-MW03S-042512 | 240-10670-4 | 61 | 59 | 53 | 53 | 81 | 40 |
| | MB 240-42319/22-A | 71 | 72 | 67 | 60 | 85 | 90 |
| | LCS 240-42319/23-A | 62 | 68 | 66 | 60 | 99 | 80 |
| | 240-10623-N-4-A MS | 63 | 66 | 64 | 62 | 89 | 63 |
| | 240-10623-P-4-A MSD | 68 | 69 | 66 | 58 | 89 | 64 |

| | QC LIMITS |
|---|---|
| 2FP = 2-Fluorophenol (Surr) | 10-110 |
| PHL = Phenol-d5 (Surr) | 10-110 |
| NBZ = Nitrobenzene-d5 (Surr) | 27-111 |
| FBP = 2-Fluorobiphenyl (Surr) | 28-110 |
| TBP = 2,4,6-Tribromophenol (Surr) | 22-120 |
| TPH = Terphenyl-d14 (Surr) | 37-119 |

# Column to be used to flag recovery values

FORM II 8270C

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Sample No.: STD6 240-42463/10 Date Analyzed: 05/02/2012 12:54

Instrument ID: A4HP7 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 20502010.D Heated Purge: (Y/N) N

Calibration ID: 8490

| | | DCB | | NPT | | ANT | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | | 203831 | 3.51 | 750748 | 4.40 | 449631 | 5.66 |
| UPPER LIMIT | | 407662 | 4.01 | 1501496 | 4.90 | 899262 | 6.16 |
| LOWER LIMIT | | 101916 | 3.01 | 375374 | 3.90 | 224816 | 5.16 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| ICV 240-42463/11 | | 219450 | 3.51 | 793338 | 4.40 | 481824 | 5.66 |
| ICV 240-42463/29 | | 242991 | 3.51 | 881103 | 4.40 | 540358 | 5.66 |
| CCV 240-42787/2 CCVIS | | 179592 | 3.42 | 711543 | 4.31 | 398182 | 5.57 |

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270C

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Sample No.: STD6 240-42463/10 Date Analyzed: 05/02/2012 12:54

Instrument ID: A4HP7 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 20502010.D Heated Purge: (Y/N) N

Calibration ID: 8490

| | | PHN | | CRY | | PRY | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | | 701859 | 6.74 | 609578 | 8.73 | 444154 | 10.12 |
| UPPER LIMIT | | 1403718 | 7.24 | 1219156 | 9.23 | 888308 | 10.62 |
| LOWER LIMIT | | 350930 | 6.24 | 304789 | 8.23 | 222077 | 9.62 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| ICV 240-42463/11 | | 750463 | 6.74 | 697064 | 8.71 | 502891 | 10.10 |
| ICV 240-42463/29 | | 886222 | 6.74 | 821260 | 8.72 | 566597 | 10.12 |
| CCV 240-42787/2 CCVIS | | 635458 | 6.64 | 630030 | 8.61 | 474108 | 9.93 |

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270C

FORM VIII

GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Sample No.: CCV 240-42787/2 Date Analyzed: 05/04/2012 09:42

Instrument ID: A4HP7 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 20504002.D Heated Purge: (Y/N) N

Calibration ID: 8498

| | | DCB | | NPT | | ANT | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 179592 | 3.42 | 711543 | 4.31 | 398182 | 5.57 |
| UPPER LIMIT | | 359184 | 3.92 | 1423086 | 4.81 | 796364 | 6.07 |
| LOWER LIMIT | | 89796 | 2.92 | 355772 | 3.81 | 199091 | 5.07 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| CCV 240-42787/4 | | 160196 | 3.42 | 700703 | 4.31 | 414289 | 5.57 |
| MB 240-42319/22-A | | 192020 | 3.42 | 723583 | 4.31 | 432587 | 5.57 |
| LCS 240-42319/23-A | | 187950 | 3.42 | 733913 | 4.31 | 431552 | 5.57 |
| 240-10623-N-4-A MS | | 194222 | 3.42 | 740766 | 4.31 | 440091 | 5.57 |
| 240-10623-P-4-A MSD | | 226364 | 3.42 | 864840 | 4.31 | 529556 | 5.57 |
| 240-10670-2 | MT-MW05S-042512 | 220671 | 3.42 | 889505 | 4.31 | 509659 | 5.57 |
| 240-10670-3 | MT-MW01S-042512 | 210329 | 3.42 | 821841 | 4.31 | 497101 | 5.57 |
| 240-10670-4 | MT-MW03S-042512 | 231318 | 3.42 | 927902 | 4.31 | 546380 | 5.57 |

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270C

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Sample No.: CCV 240-42787/2 Date Analyzed: 05/04/2012 09:42

Instrument ID: A4HP7 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 20504002.D Heated Purge: (Y/N) N

Calibration ID: 8498

| | | PHN | | CRY | | PRY | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 635458 | 6.64 | 630030 | 8.61 | 474108 | 9.93 |
| UPPER LIMIT | | 1270916 | 7.14 | 1260060 | 9.11 | 948216 | 10.43 |
| LOWER LIMIT | | 317729 | 6.14 | 315015 | 8.11 | 237054 | 9.43 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| CCV 240-42787/4 | | 647849 | 6.64 | 609763 | 8.61 | 463017 | 9.93 |
| MB 240-42319/22-A | | 716018 | 6.64 | 654282 | 8.60 | 484735 | 9.93 |
| LCS 240-42319/23-A | | 700940 | 6.64 | 663757 | 8.61 | 496305 | 9.93 |
| 240-10623-N-4-A MS | | 714597 | 6.65 | 740981 | 8.62 | 595192 | 9.95 |
| 240-10623-P-4-A MSD | | 824289 | 6.65 | 774384 | 8.64 | 595819 | 9.98 |
| 240-10670-2 | MT-MW05S-042512 | 856705 | 6.65 | 794494 | 8.61 | 622203 | 9.94 |
| 240-10670-3 | MT-MW01S-042512 | 799659 | 6.64 | 763367 | 8.60 | 597274 | 9.93 |
| 240-10670-4 | MT-MW03S-042512 | 889624 | 6.65 | 803060 | 8.61 | 641121 | 9.94 |

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270C

# Method 8015B - GRO

## Gasoline Range Organics (GC) by Method 8015B

GASOLINE RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Instrument ID: YPID Start Date: 02/10/2012 10:35

Analysis Batch Number: 33435 End Date: 02/10/2012 23:53

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| ZZZZZ | | 02/10/2012 10:35 | 1 | | RTX-VRX 0.45(mm) |
| STD1 240-33435/12 IC | | 02/10/2012 16:17 | 1 | YF021012.D | RTX-VRX 0.45(mm) |
| STD2 240-33435/13 IC | | 02/10/2012 16:55 | 1 | YF021013.D | RTX-VRX 0.45(mm) |
| STD3 240-33435/14 IC | | 02/10/2012 17:32 | 1 | YF021014.D | RTX-VRX 0.45(mm) |
| STD4 240-33435/15 ICRT | | 02/10/2012 18:11 | 1 | YF021015.D | RTX-VRX 0.45(mm) |
| STD5 240-33435/16 IC | | 02/10/2012 18:49 | 1 | YF021016.D | RTX-VRX 0.45(mm) |
| STD6 240-33435/17 IC | | 02/10/2012 19:27 | 1 | YF021017.D | RTX-VRX 0.45(mm) |
| ICV 240-33435/18 | | 02/10/2012 20:05 | 1 | YF021018.D | RTX-VRX 0.45(mm) |
| ZZZZZ | | 02/10/2012 20:43 | 1 | | RTX-VRX 0.45(mm) |
| ZZZZZ | | 02/10/2012 21:21 | 1 | | RTX-VRX 0.45(mm) |
| ZZZZZ | | 02/10/2012 21:59 | 10 | | RTX-VRX 0.45(mm) |
| ZZZZZ | | 02/10/2012 22:37 | 10 | | RTX-VRX 0.45(mm) |
| ZZZZZ | | 02/10/2012 23:15 | 10 | | RTX-VRX 0.45(mm) |
| CCV 240-33435/24 | | 02/10/2012 23:53 | 1 | | RTX-VRX 0.45(mm) |

FORM VI
GASOLINE RANGE ORGANICS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-10670-1 Analy Batch No.: 33435

SDG No.:

Instrument ID: YPID GC Column: RTX-VRX ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/10/2012 16:17 Calibration End Date: 02/10/2012 19:27 Calibration ID: 6924

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-33435/12 | YF021012.D |
| Level 2 | STD2 240-33435/13 | YF021013.D |
| Level 3 | STD3 240-33435/14 | YF021014.D |
| Level 4 | STD4 240-33435/15 | YF021015.D |
| Level 5 | STD5 240-33435/16 | YF021016.D |
| Level 6 | STD6 240-33435/17 | YF021017.D |

| ANALYTE | CF | | | | CURVE TYPE | COEFFICIENT | | | # | MIN CF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 5 | LVL 2<br>LVL 6 | LVL 3 | LVL 4 | | B | M1 | M2 | | | | | | | | |
| Total Petroleum Hydrocarbons (C6-C10) | 318103<br>289067 | 320460<br>294590 | 282575 | 294457 | Ave | | 299875.299 | | | | 5.2 | | 20.0 | | | |
| C6-C12 | 375472<br>318195 | 363940<br>323226 | 316555 | 324196 | Ave | | 336930.834 | | | | 7.7 | | 20.0 | | | |
| Trifluorotoluene (Surr) | 384133<br>460736 | 375012<br>483108 | 395882 | 424093 | Ave | | 420494.083 | | | | 10.0 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GASOLINE RANGE ORGANICS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-10670-1 Analy Batch No.: 33435

SDG No.:

Instrument ID: YPID GC Column: RTX-VRX ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/10/2012 16:17 Calibration End Date: 02/10/2012 19:27 Calibration ID: 6924

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-33435/12 | YF021012.D |
| Level 2 | STD2 240-33435/13 | YF021013.D |
| Level 3 | STD3 240-33435/14 | YF021014.D |
| Level 4 | STD4 240-33435/15 | YF021015.D |
| Level 5 | STD5 240-33435/16 | YF021016.D |
| Level 6 | STD6 240-33435/17 | YF021017.D |

| ANALYTE | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Total Petroleum Hydrocarbons (C6-C10) | Ave | 31810312<br>471343808 | 64091921 | 113029874 | 235565977 | 346880438 | 100<br>1600 | 200 | 400 | 800 | 1200 |
| C6-C12 | Ave | 37547242<br>517161889 | 72788086 | 126621830 | 259357128 | 381833988 | 100<br>1600 | 200 | 400 | 800 | 1200 |
| Trifluorotoluene (Surr) | Ave | 3841333<br>4831084 | 3750122 | 3958818 | 4240925 | 4607363 | 10.0<br>10.0 | 10.0 | 10.0 | 10.0 | 10.0 |

Curve Type Legend:
Ave = Average

FORM VI
GASOLINE RANGE ORGANICS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-10670-1 Analy Batch No.: 33435

SDG No.:

Instrument ID: YPID GC Column: RTX-VRX ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/10/2012 16:17 Calibration End Date: 02/10/2012 19:27 Calibration ID: 6924

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-33435/12 | YF021012.D |
| Level 2 | STD2 240-33435/13 | YF021013.D |
| Level 3 | STD3 240-33435/14 | YF021014.D |
| Level 4 | STD4 240-33435/15 | YF021015.D |
| Level 5 | STD5 240-33435/16 | YF021016.D |
| Level 6 | STD6 240-33435/17 | YF021017.D |

| ANALYTE | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 6 | | | | | RT WINDOW | AVG RT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C6-C10) | 11.810 | 11.810 | 11.810 | 11.810 | 11.810 | 11.810 | | | | | 4.817 - 18.802 | 11.810 |
| C6-C12 | 13.469 | 13.469 | 13.469 | 13.469 | 13.469 | 13.469 | | | | | 4.917 - 22.022 | 13.469 |
| Trifluorotoluene (Surr) | 9.768 | 9.772 | 9.769 | 9.772 | 9.771 | 9.774 | | | | | 9.522 - 10.022 | 9.771 |

FORM VII
GASOLINE RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Lab Sample ID: ICV 240-33435/18 Calibration Date: 02/10/2012 20:05

Instrument ID: YPID Calib Start Date: 02/10/2012 16:17

GC Column: RTX-VRX ID: 0.45(mm) Calib End Date: 02/10/2012 19:27

Lab File ID: YF021018.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C6-C10) | Ave | 299875 | 333932 | | 891 | 800 | 11.4 | 20.0 |
| C6-C12 | Ave | 336931 | 375679 | | 892 | 800 | 11.5 | 20.0 |
| Trifluorotoluene (Surr) | Ave | 420494 | 416828 | | 9.91 | 10.0 | -0.9 | 20.0 |

FORM VII

GASOLINE RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Lab Sample ID: ICV 240-33435/18 Calibration Date: 02/10/2012 20:05

Instrument ID: YPID Calib Start Date: 02/10/2012 16:17

GC Column: RTX-VRX ID: 0.45(mm) Calib End Date: 02/10/2012 19:27

Lab File ID: YF021018.D Heated Purge: (Y/N) N

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | TO | FROM |
| Total Petroleum Hydrocarbons (C6-C10) | 11.81 | 4.82 | 18.80 |
| C6-C12 | 13.47 | 4.92 | 22.02 |
| Trifluorotoluene (Surr) | 9.77 | 9.52 | 10.02 |

FORM VIII
GASOLINE RANGE ORGANICS ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton  Job No.: 240-10670-1

SDG No.:

Sample No.: CCV 240-42055/6  Date Analyzed: 04/28/2012 16:30

Instrument ID: YPID  GC Column: RTX-VRX  ID: 0.45(mm)

Lab File ID (Standard): YF042806.D  Heated Purge: (Y/N) N

Calibration ID: 6924

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

| | | | | TFT RT # | | |
|---|---|---|---|---|---|---|
| CONTINUING CALIBRATION SURROGATE | | | | 9.75 | | |
| UPPER LIMIT | | | | 9.85 | | |
| LOWER LIMIT | | | | 9.65 | | |
| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | LAB FILE ID | | | |
| CCV 240-42055/6 CCVRT | | 04/28/2012 16:30 | YF042806.D | 9.75 | | |
| MB 240-42055/7 | | 04/28/2012 17:07 | YF042807.D | 9.75 | | |
| LCS 240-42055/8 | | 04/28/2012 17:45 | YF042808.D | 9.76 | | |
| 240-10598-B-2 MS | | 04/28/2012 18:59 | YF042810.D | 9.75 | | |
| 240-10598-B-2 MSD | | 04/28/2012 19:36 | YF042811.D | 9.76 | | |
| 240-10670-2 | MT-MW05S-042512 | 04/28/2012 20:51 | YF042813.D | 9.75 | | |
| 240-10670-3 | MT-MW01S-042512 | 04/28/2012 21:28 | YF042814.D | 9.75 | | |
| 240-10670-4 | MT-MW03S-042512 | 04/28/2012 22:06 | YF042815.D | 9.75 | | |
| CCV 240-42055/16 | | 04/28/2012 22:43 | YF042816.D | 9.75 | | |

TFT = Trifluorotoluene (Surr)

TFT RT Limit = ± 0.1 minutes of surrogate RT

# Column used to flag values outside QC limits

FORM VIII 8015B

FORM VII
GASOLINE RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Lab Sample ID: CCV 240-42055/6 Calibration Date: 04/28/2012 16:30

Instrument ID: YPID Calib Start Date: 02/10/2012 16:17

GC Column: RTX-VRX ID: 0.45(mm) Calib End Date: 02/10/2012 19:27

Lab File ID: YF042806.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C6-C10) | Ave | 299875 | 319489 | | 852 | 800 | 6.5 | 15.0 |
| C6-C12 | Ave | 336931 | 355619 | | 844 | 800 | 5.5 | 15.0 |
| Trifluorotoluene (Surr) | Ave | 420494 | 318723 | | 7.58 | 10.0 | -24.2* | 15.0 |

FORM VII

GASOLINE RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Lab Sample ID: CCV 240-42055/6 Calibration Date: 04/28/2012 16:30

Instrument ID: YPID Calib Start Date: 02/10/2012 16:17

GC Column: RTX-VRX ID: 0.45(mm) Calib End Date: 02/10/2012 19:27

Lab File ID: YF042806.D Heated Purge: (Y/N) N

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | TO | FROM |
| Total Petroleum Hydrocarbons (C6-C10) | 11.80 | 4.81 | 18.78 |
| C6-C12 | 13.41 | 4.91 | 21.91 |
| Trifluorotoluene (Surr) | 9.75 | 9.50 | 10.00 |

FORM VII
GASOLINE RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-10670-1

SDG No.:

Lab Sample ID: CCV 240-42055/16  Calibration Date: 04/28/2012 22:43

Instrument ID: YPID  Calib Start Date: 02/10/2012 16:17

GC Column: RTX-VRX  ID: 0.45(mm)  Calib End Date: 02/10/2012 19:27

Lab File ID: YF042816.D  Conc. Units: ug/L  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C6-C10) | Ave | 299875 | 304088 | | 811 | 800 | 1.4 | 15.0 |
| C6-C12 | Ave | 336931 | 340309 | | 808 | 800 | 1.0 | 15.0 |
| Trifluorotoluene (Surr) | Ave | 420494 | 314986 | | 7.49 | 10.0 | -25.1* | 15.0 |

FORM VII

GASOLINE RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Lab Sample ID: CCV 240-42055/16 Calibration Date: 04/28/2012 22:43

Instrument ID: YPID Calib Start Date: 02/10/2012 16:17

GC Column: RTX-VRX ID: 0.45(mm) Calib End Date: 02/10/2012 19:27

Lab File ID: YF042816.D Heated Purge: (Y/N) N

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | TO | FROM |
| Total Petroleum Hydrocarbons (C6-C10) | 11.80 | 4.81 | 18.78 |
| C6-C12 | 13.41 | 4.91 | 21.91 |
| Trifluorotoluene (Surr) | 9.75 | 9.50 | 10.00 |

FORM IV
GASOLINE RANGE ORGANICS METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Lab Sample ID: MB 240-42055/7

Matrix: Water Date Extracted: 04/28/2012 17:07

Lab File ID:(1) YF042807.D Lab File ID:(2)

Date Analyzed:(1) 04/28/2012 17:07 Date Analyzed:(2)

Instrument ID:(1) YPID Instrument ID:(2)

GC Column:(1) RTX-VRX ID: 0.45(mm) GC Column:(2) ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | DATE ANALYZED 1 | DATE ANALYZED 2 |
|---|---|---|---|
| | LCS 240-42055/8 | 04/28/2012 17:45 | |
| | 240-10598-B-2 MS | 04/28/2012 18:59 | |
| | 240-10598-B-2 MSD | 04/28/2012 19:36 | |
| MT-MW05S-042512 | 240-10670-2 | 04/28/2012 20:51 | |
| MT-MW01S-042512 | 240-10670-3 | 04/28/2012 21:28 | |
| MT-MW03S-042512 | 240-10670-4 | 04/28/2012 22:06 | |

FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-10670-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-42055/7

Matrix: Water | Lab File ID: YF042807.D

Analysis Method: 8015B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/28/2012 17:07

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VRX ID: 0.45(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 42055 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 8006-61-9 | Total Petroleum Hydrocarbons (C6-C10) GRO | 32.9 | J | 100 | 25 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 98-08-8 | Trifluorotoluene (Surr) | 63 | | 10-150 |

FORM III
GASOLINE RANGE ORGANICS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Matrix: Water Level: Low Lab File ID: YF042808.D

Lab ID: LCS 240-42055/8 Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C6-C10) | 800 | 896 | 112 | 72-140 | |

# Column to be used to flag recovery and RPD values

FORM III 8015B

FORM III
GASOLINE RANGE ORGANICS MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Matrix: Water Level: Low Lab File ID: YF042810.D

Lab ID: 240-10598-B-2 MS Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C6-C10) | 800 | 49 J | 963 | 114 | 63-143 | |

# Column to be used to flag recovery and RPD values

FORM III 8015B

FORM III
GASOLINE RANGE ORGANICS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Matrix: Water Level: Low Lab File ID: YF042811.D

Lab ID: 240-10598-B-2 MSD Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD % REC | % RPD | QC LIMITS RPD | QC LIMITS REC | # |
|---|---|---|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C6-C10) | 800 | 930 | 110 | 4 | 20 | 63-143 | |

# Column to be used to flag recovery and RPD values

FORM III 8015B

FORM II
GASOLINE RANGE ORGANICS SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): RTX-VRX ID: 0.45 (mm)

| Client Sample ID | Lab Sample ID | TFT1 # |
|---|---|---|
| MT-MW05S-042512 | 240-10670-2 | 66 |
| MT-MW01S-042512 | 240-10670-3 | 63 |
| MT-MW03S-042512 | 240-10670-4 | 65 |
| | MB 240-42055/7 | 63 |
| | LCS 240-42055/8 | 73 |
| | 240-10598-B-2 MS | 75 |
| | 240-10598-B-2 MSD | 71 |

| | QC LIMITS |
|---|---|
| TFT = Trifluorotoluene (Surr) | 10-150 |

# Column to be used to flag recovery values

FORM II 8015B

# Method 8015B - DRO

## Diesel Range Organics (DRO) (GC) by Method 8015B

DIESEL RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Instrument ID: A2HP6F Start Date: 04/26/2012 12:11

Analysis Batch Number: 41691 End Date: 04/26/2012 22:33

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| STD1 240-41691/4 IC | | 04/26/2012 12:11 | 1 | P6F04264.D | RTX-5 0.53(mm) |
| STD2 240-41691/5 IC | | 04/26/2012 12:42 | 1 | P6F04265.D | RTX-5 0.53(mm) |
| STD3 240-41691/6 IC | | 04/26/2012 13:13 | 1 | P6F04266.D | RTX-5 0.53(mm) |
| STD4 240-41691/7 IC | | 04/26/2012 13:45 | 1 | P6F04267.D | RTX-5 0.53(mm) |
| STD5 240-41691/8 IC | | 04/26/2012 14:16 | 1 | P6F04268.D | RTX-5 0.53(mm) |
| ICV 240-41691/9 | | 04/26/2012 14:47 | 1 | P6F04269.D | RTX-5 0.53(mm) |
| STD1 240-41691/10 IC | | 04/26/2012 15:18 | 1 | | RTX-5 0.53(mm) |
| STD2 240-41691/11 IC | | 04/26/2012 15:49 | 1 | | RTX-5 0.53(mm) |
| STD3 240-41691/12 IC | | 04/26/2012 16:20 | 1 | | RTX-5 0.53(mm) |
| STD4 240-41691/13 IC | | 04/26/2012 16:51 | 1 | | RTX-5 0.53(mm) |
| STD5 240-41691/14 IC | | 04/26/2012 17:23 | 1 | | RTX-5 0.53(mm) |
| ICV 240-41691/15 | | 04/26/2012 17:54 | 1 | | RTX-5 0.53(mm) |
| ZZZZZ | | 04/26/2012 18:25 | 500 | | RTX-5 0.53(mm) |
| ZZZZZ | | 04/26/2012 18:56 | 1 | | RTX-5 0.53(mm) |
| ZZZZZ | | 04/26/2012 19:27 | 5 | | RTX-5 0.53(mm) |
| ZZZZZ | | 04/26/2012 19:58 | 5 | | RTX-5 0.53(mm) |
| RINSE 240-41691/20 | | 04/26/2012 20:29 | 1 | | RTX-5 0.53(mm) |
| CCV 240-41691/21 | | 04/26/2012 20:59 | 1 | | RTX-5 0.53(mm) |
| CCV 240-41691/24 | | 04/26/2012 22:33 | 1 | | RTX-5 0.53(mm) |

FORM VI
DIESEL RANGE ORGANICS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-10670-1  Analy Batch No.: 41691

SDG No.:

Instrument ID: A2HP6F  GC Column: RTX-5  ID: 0.53(mm)  Heated Purge: (Y/N) N

Calibration Start Date: 04/26/2012 12:11  Calibration End Date: 04/26/2012 14:16  Calibration ID: 8406

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-41691/4 | P6F04264.D |
| Level 2 | STD2 240-41691/5 | P6F04265.D |
| Level 3 | STD3 240-41691/6 | P6F04266.D |
| Level 4 | STD4 240-41691/7 | P6F04267.D |
| Level 5 | STD5 240-41691/8 | P6F04268.D |

| ANALYTE | CF | | | | CURVE TYPE | COEFFICIENT | | | # | MIN CF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 5 | LVL 2 | LVL 3 | LVL 4 | | B | M1 | M2 | | | | | | | | |
| Diesel | 198430<br>174115 | 188482 | 182432 | 173562 | Ave | | 183404.386 | | | | 5.7 | | 20.0 | | | |
| n-Nonane | 213382<br>212758 | 214563 | 217346 | 210050 | Ave | | 213619.735 | | | | 1.2 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
DIESEL RANGE ORGANICS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-10670-1 Analy Batch No.: 41691

SDG No.:

Instrument ID: A2HP6F GC Column: RTX-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/26/2012 12:11 Calibration End Date: 04/26/2012 14:16 Calibration ID: 8406

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-41691/4 | P6F04264.D |
| Level 2 | STD2 240-41691/5 | P6F04265.D |
| Level 3 | STD3 240-41691/6 | P6F04266.D |
| Level 4 | STD4 240-41691/7 | P6F04267.D |
| Level 5 | STD5 240-41691/8 | P6F04268.D |

| ANALYTE | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (NG/UL) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Diesel | Ave | 19843021 | 37696404 | 91215944 | 173562318 | 348230992 | 100 | 200 | 500 | 1000 | 2000 |
| n-Nonane | Ave | 2133821 | 4291261 | 10867284 | 21005029 | 42551511 | 10.0 | 20.0 | 50.0 | 100 | 200 |

Curve Type Legend:
Ave = Average

FORM VI
DIESEL RANGE ORGANICS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-10670-1 Analy Batch No.: 41691

SDG No.:

Instrument ID: A2HP6F GC Column: RTX-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/26/2012 12:11 Calibration End Date: 04/26/2012 14:16 Calibration ID: 8406

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-41691/4 | P6F04264.D |
| Level 2 | STD2 240-41691/5 | P6F04265.D |
| Level 3 | STD3 240-41691/6 | P6F04266.D |
| Level 4 | STD4 240-41691/7 | P6F04267.D |
| Level 5 | STD5 240-41691/8 | P6F04268.D |

| ANALYTE | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | | | | | RT WINDOW | AVG RT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel | 9.493 | 9.493 | 9.493 | 9.493 | 9.493 | | | | | | 5.280 - 13.709 | 9.493 |
| n-Nonane | 4.296 | 4.295 | 4.296 | 4.296 | 4.298 | | | | | | 4.246 - 4.346 | 4.296 |

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Lab Sample ID: ICV 240-41691/9 Calibration Date: 04/26/2012 14:47

Instrument ID: A2HP6F Calib Start Date: 04/26/2012 12:11

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 04/26/2012 14:16

Lab File ID: P6F04269.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Diesel | Ave | 183404 | 171101 | | 467 | 500 | -6.7 | 20.0 |

FORM VII

DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Lab Sample ID: ICV 240-41691/9 Calibration Date: 04/26/2012 14:47

Instrument ID: A2HP6F Calib Start Date: 04/26/2012 12:11

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 04/26/2012 14:16

Lab File ID: P6F04269.D

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | TO | FROM |
| Diesel | 9.49 | 5.28 | 13.71 |

FORM VIII
DIESEL RANGE ORGANICS ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Sample No.: CCVRT 240-42140/4 Date Analyzed: 04/30/2012 11:25

Instrument ID: A2HP6F GC Column: RTX-5 ID: 0.53(mm)

Lab File ID (Standard): P6F04304.D Heated Purge: (Y/N) N

Calibration ID: 8406

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

| | | | | C9 RT # | | |
|---|---|---|---|---|---|---|
| CONTINUING CALIBRATION SURROGATE | | | | 4.29 | | |
| UPPER LIMIT | | | | 4.39 | | |
| LOWER LIMIT | | | | 4.19 | | |
| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | LAB FILE ID | | | |
| CCVRT 240-42140/4 | | 04/30/2012 11:25 | P6F04304.D | 4.29 | | |
| 240-10670-2 | MT-MW05S-042512 | 04/30/2012 11:56 | P6F04305.D | 4.29 | | |
| 240-10670-3 | MT-MW01S-042512 | 04/30/2012 12:27 | P6F04306.D | 4.29 | | |
| 240-10670-4 | MT-MW03S-042512 | 04/30/2012 12:58 | P6F04307.D | 4.29 | | |
| MB 240-41890/15-A | | 04/30/2012 19:13 | P6F04319.D | 4.29 | | |
| LCS 240-41890/16-A | | 04/30/2012 19:44 | P6F04320.D | 4.29 | | |
| CCV 240-42140/21 | | 04/30/2012 20:15 | P6F04321.D | 4.30 | | |

C9 = n-Nonane

C9 RT Limit = ± 0.1 minutes of surrogate RT

# Column used to flag values outside QC limits

FORM VIII 8015B

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Lab Sample ID: CCVRT 240-42140/4 Calibration Date: 04/30/2012 11:25

Instrument ID: A2HP6F Calib Start Date: 04/26/2012 12:11

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 04/26/2012 14:16

Lab File ID: P6F04304.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Diesel | Ave | 183404 | 184302 | | 502 | 500 | 0.5 | 15.0 |
| n-Nonane | Ave | 213620 | 221736 | | 51.9 | 50.0 | 3.8 | 15.0 |

FORM VII

DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Lab Sample ID: CCVRT 240-42140/4 Calibration Date: 04/30/2012 11:25

Instrument ID: A2HP6F Calib Start Date: 04/26/2012 12:11

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 04/26/2012 14:16

Lab File ID: P6F04304.D

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | TO | FROM |
| Diesel | 9.49 | 5.27 | 13.70 |
| n-Nonane | 4.29 | 4.24 | 4.34 |

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Lab Sample ID: CCV 240-42140/21 Calibration Date: 04/30/2012 20:15

Instrument ID: A2HP6F Calib Start Date: 04/26/2012 12:11

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 04/26/2012 14:16

Lab File ID: P6F04321.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Diesel | Ave | 183404 | 202278 | | 552 | 500 | 10.3 | 15.0 |
| n-Nonane | Ave | 213620 | 238934 | | 55.9 | 50.0 | 11.8 | 15.0 |

FORM VII

DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Lab Sample ID: CCV 240-42140/21 Calibration Date: 04/30/2012 20:15

Instrument ID: A2HP6F Calib Start Date: 04/26/2012 12:11

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 04/26/2012 14:16

Lab File ID: P6F04321.D

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | TO | FROM |
| Diesel | 9.49 | 5.27 | 13.70 |
| n-Nonane | 4.30 | 4.24 | 4.34 |

FORM IV
DIESEL RANGE ORGANICS METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Lab Sample ID: MB 240-41890/15-A

Matrix: Water Date Extracted: 04/27/2012 10:39

Lab File ID:(1) P6F04319.D Lab File ID:(2)

Date Analyzed:(1) 04/30/2012 19:13 Date Analyzed:(2)

Instrument ID:(1) A2HP6F Instrument ID:(2)

GC Column:(1) RTX-5 ID: 0.53(mm) GC Column:(2) ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | DATE ANALYZED 1 | DATE ANALYZED 2 |
|---|---|---|---|
| MT-MW05S-042512 | 240-10670-2 | 04/30/2012 11:56 | |
| MT-MW01S-042512 | 240-10670-3 | 04/30/2012 12:27 | |
| MT-MW03S-042512 | 240-10670-4 | 04/30/2012 12:58 | |
| | LCS 240-41890/16-A | 04/30/2012 19:44 | |

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-10670-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-41890/15-A

Matrix: Water | Lab File ID: P6F04319.D

Analysis Method: 8015B | Date Collected:

Extraction Method: 3520C | Date Extracted: 04/27/2012 10:39

Sample wt/vol: 1000(mL) | Date Analyzed: 04/30/2012 19:13

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-5 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 42140 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| STL00141 | Total Petroleum Hydrocarbons (C10-C32) DRO | 422 | J | 500 | 240 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 111-84-2 | n-Nonane | 62 | | 10-110 |

FORM III
DIESEL RANGE ORGANICS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P6F04320.D

Lab ID: LCS 240-41890/16-A Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| Diesel | 2500 | 1860 | 74 | 36-124 | |

# Column to be used to flag recovery and RPD values

FORM III 8015B

FORM II
DIESEL RANGE ORGANICS SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): RTX-5 ID: 0.53 (mm)

| Client Sample ID | Lab Sample ID | C91 # |
|---|---|---|
| MT-MW05S-042512 | 240-10670-2 | 47 |
| MT-MW01S-042512 | 240-10670-3 | 22 |
| MT-MW03S-042512 | 240-10670-4 | 45 |
| | MB 240-41890/15-A | 62 |
| | LCS 240-41890/16-A | 47 |

| | QC LIMITS |
|---|---|
| C9 = n-Nonane | 10-110 |

# Column to be used to flag recovery values

FORM II 8015B

# ICAL Data

Perchlorates

# QQQ Checktune Report

| | | | |
|---|---|---|---|
| **Instrument Name** | Instrument 1 | **MS Model** | G6410A |
| **Tune Date & Time** | 2012-05-14 15:01 | | |
| **Data Path** | D:\MassHunter\Tune\QQQ\atunes.tune.xml | | |
| **Ion Source** | ESI | | |
| **Ionization Mode** | ESI | | |

**Negative Results**

***Analyzer: MS1*** ***Polarity: Negative*** ***Width: Unit***

| m/z | m/z Exp | Tolerance | Delta | Result | FWHM | FWHM Exp | Tolerance | Delta | Result | Abundance | Minimum1 | Result |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 112.99 | 112.99 | 0.10 | 0.00 | Pass | 0.69 | 0.70 | 0.10 | -0.01 | Pass | 92868 | 0 | Pass |
| 301.98 | 302.00 | 0.10 | -0.02 | Pass | 0.71 | 0.70 | 0.10 | 0.01 | Pass | 388044 | 0 | Pass |
| 601.93 | 601.98 | 0.10 | -0.05 | Pass | 0.69 | 0.70 | 0.10 | -0.01 | Pass | 1062794 | 0 | Pass |
| 1033.92 | 1033.99 | 0.10 | -0.07 | Pass | 0.70 | 0.70 | 0.10 | 0.00 | Pass | 516938 | 0 | Pass |
| 1333.91 | 1333.97 | 0.10 | -0.06 | Pass | 0.70 | 0.70 | 0.10 | 0.00 | Pass | 846657 | 0 | Pass |
| 1633.89 | 1633.95 | 0.10 | -0.06 | Pass | 0.73 | 0.70 | 0.10 | 0.03 | Pass | 712638 | 0 | Pass |

***Analyzer: MS2*** ***Polarity: Negative*** ***Width: Unit***

| m/z | m/z Exp | Tolerance | Delta | Result | FWHM | FWHM Exp | Tolerance | Delta | Result | Abundance | Minimum1 | Result |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 113.01 | 112.99 | 0.10 | 0.02 | Pass | 0.68 | 0.70 | 0.10 | -0.02 | Pass | 288847 | 0 | Pass |
| 302.00 | 302.00 | 0.10 | 0.00 | Pass | 0.69 | 0.70 | 0.10 | -0.01 | Pass | 311553 | 0 | Pass |
| 601.99 | 601.98 | 0.10 | 0.01 | Pass | 0.69 | 0.70 | 0.10 | -0.01 | Pass | 485145 | 0 | Pass |
| 1034.00 | 1033.99 | 0.10 | 0.01 | Pass | 0.70 | 0.70 | 0.10 | 0.00 | Pass | 254185 | 0 | Pass |
| 1333.98 | 1333.97 | 0.10 | 0.01 | Pass | 0.69 | 0.70 | 0.10 | -0.01 | Pass | 651822 | 0 | Pass |
| 1633.93 | 1633.95 | 0.10 | -0.02 | Pass | 0.68 | 0.70 | 0.10 | -0.02 | Pass | 468989 | 0 | Pass |

***Analyzer: MS1*** ***Polarity: Negative*** ***Width: Wide***

| m/z | m/z Exp | Tolerance | Delta | Result | FWHM | FWHM Exp | Tolerance | Delta | Result | Abundance | Minimum1 | Result |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 112.98 | 112.99 | 0.30 | -0.01 | Pass | 1.20 | 1.20 | 0.60 | 0.00 | Pass | 107551 | 0 | Pass |
| 301.93 | 302.00 | 0.30 | -0.07 | Pass | 1.30 | 1.20 | 0.60 | 0.10 | Pass | 539361 | 0 | Pass |
| 601.92 | 601.98 | 0.30 | -0.06 | Pass | 1.30 | 1.20 | 0.60 | 0.10 | Pass | 1600495 | 0 | Pass |
| 1033.87 | 1033.99 | 0.30 | -0.12 | Pass | 1.33 | 1.20 | 0.60 | 0.13 | Pass | 998141 | 0 | Pass |
| 1333.85 | 1333.97 | 0.30 | -0.12 | Pass | 1.31 | 1.20 | 0.60 | 0.11 | Pass | 1909805 | 0 | Pass |
| 1633.87 | 1633.95 | 0.30 | -0.08 | Pass | 1.23 | 1.20 | 0.60 | 0.03 | Pass | 1817124 | 0 | Pass |



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# QQQ Checktune Report

***Analyzer: MS2*** ***Polarity: Negative*** ***Width: Wide***

| m/z | m/z Exp | Tolerance | Delta | Result | FWHM | FWHM Exp | Tolerance | Delta | Result | Abundance | Minimum1 | Result |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 113.03 | 112.99 | 0.30 | 0.04 | Pass | 1.16 | 1.20 | 0.60 | -0.04 | Pass | 377641 | 0 | Pass |
| 301.98 | 302.00 | 0.30 | -0.02 | Pass | 1.23 | 1.20 | 0.60 | 0.03 | Pass | 451748 | 0 | Pass |
| 601.93 | 601.98 | 0.30 | -0.05 | Pass | 1.25 | 1.20 | 0.60 | 0.05 | Pass | 765433 | 0 | Pass |
| 1033.93 | 1033.99 | 0.30 | -0.06 | Pass | 1.25 | 1.20 | 0.60 | 0.05 | Pass | 484189 | 0 | Pass |
| 1333.91 | 1333.97 | 0.30 | -0.06 | Pass | 1.28 | 1.20 | 0.60 | 0.08 | Pass | 1182818 | 0 | Pass |
| 1633.91 | 1633.95 | 0.30 | -0.04 | Pass | 1.25 | 1.20 | 0.60 | 0.05 | Pass | 937789 | 0 | Pass |

***Analyzer: MS1*** ***Polarity: Negative*** ***Width: Widest***

| m/z | m/z Exp | Tolerance | Delta | Result | FWHM | FWHM Exp | Tolerance | Delta | Result | Abundance | Minimum1 | Result |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 112.89 | 112.99 | 0.50 | -0.10 | Pass | 2.79 | 2.50 | 1.25 | 0.29 | Pass | 131443 | 0 | Pass |
| 301.87 | 302.00 | 0.50 | -0.13 | Pass | 2.81 | 2.50 | 1.25 | 0.31 | Pass | 756159 | 0 | Pass |
| 601.87 | 601.98 | 0.50 | -0.11 | Pass | 2.85 | 2.50 | 1.25 | 0.35 | Pass | 2040963 | 0 | Pass |
| 1033.88 | 1033.99 | 0.50 | -0.11 | Pass | 2.82 | 2.50 | 1.25 | 0.32 | Pass | 1462657 | 0 | Pass |
| 1333.93 | 1333.97 | 0.50 | -0.04 | Pass | 2.73 | 2.50 | 1.25 | 0.23 | Pass | 2934488 | 0 | Pass |
| 1633.95 | 1633.95 | 0.50 | 0.00 | Pass | 2.60 | 2.50 | 1.25 | 0.10 | Pass | 3099613 | 0 | Pass |

***Analyzer: MS2*** ***Polarity: Negative*** ***Width: Widest***

| m/z | m/z Exp | Tolerance | Delta | Result | FWHM | FWHM Exp | Tolerance | Delta | Result | Abundance | Minimum1 | Result |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 112.88 | 112.99 | 0.50 | -0.11 | Pass | 2.52 | 2.50 | 1.25 | 0.02 | Pass | 484114 | 0 | Pass |
| 301.92 | 302.00 | 0.50 | -0.08 | Pass | 2.56 | 2.50 | 1.25 | 0.06 | Pass | 643280 | 0 | Pass |
| 601.90 | 601.98 | 0.50 | -0.08 | Pass | 2.55 | 2.50 | 1.25 | 0.05 | Pass | 1318633 | 0 | Pass |
| 1033.99 | 1033.99 | 0.50 | 0.00 | Pass | 2.41 | 2.50 | 1.25 | -0.09 | Pass | 1008315 | 0 | Pass |
| 1333.95 | 1333.97 | 0.50 | -0.02 | Pass | 2.47 | 2.50 | 1.25 | -0.03 | Pass | 2453702 | 0 | Pass |
| 1634.01 | 1633.95 | 0.50 | 0.06 | Pass | 2.42 | 2.50 | 1.25 | -0.08 | Pass | 2229412 | 0 | Pass |

[1] *NOTE: 1) Actual abundances depend on many factors and are instrument specific.*
*To change the minimum abundance, edit the values on the "Options" sheet.*



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# TestAmerica Inc.

## Perchlorate Analysis by LC/MS/MS; Method 8321 / 6850 / 331 / DOD Handbook

**Batch Data Path** D:\Masshunter\A5-data\Perc_2RNM102911VE 09\14MAY2012\QuantResults\14May2012-Perchlorate.batch.xml

### Sequence Table

| Data File | Sample Name | Position | Level | Sample Type | Acq. Date & Time |
|---|---|---|---|---|---|
| 14MAY12-perc-003.d | Blank No IS | P2-A5 | | Sample | 5/14/2012 15:41 |
| 14MAY12-perc-004.d | LC6850L9_00001 Blank + IS | P2-B1 | | Sample | 5/14/2012 15:57 |
| 14MAY12-perc-005.d | LC6850L1_00001 12LCMS0064, 0.15ng/mL | P2-B2 | 1 | Calibration | 5/14/2012 16:13 |
| 14MAY12-perc-006.d | LC6850L2_00001 12LCMS0065, 0.30ng/mL | P2-B3 | 2 | Calibration | 5/14/2012 16:29 |
| 14MAY12-perc-007.d | LC6850L3_00001 12LCMS0066, 0.50ng/mL | P2-B4 | 3 | Calibration | 5/14/2012 16:46 |
| 14MAY12-perc-008.d | LC6850L4_00001 12LCMS0067, 1.0ng/mL | P2-B5 | 4 | Calibration | 5/14/2012 17:02 |
| 14MAY12-perc-009.d | LC6850L5_00001 12LCMS0068, 2.0ng/mL | P2-B6 | 5 | Calibration | 5/14/2012 17:18 |
| 14MAY12-perc-010.d | LC6850L6_00001 12LCMS0069, 5.0ng/mL | P2-B7 | 6 | Calibration | 5/14/2012 17:34 |
| 14MAY12-perc-011.d | LC6850L7_00001 12LCMS0070, 10ng/mL | P2-B8 | 7 | Calibration | 5/14/2012 17:51 |
| 14MAY12-perc-012.d | LC6850L8_00001 12LCMS0071, 20ng/mL | P2-B9 | 8 | Calibration | 5/14/2012 18:07 |
| 14MAY12-perc-013.d | LC6850L9_00001 Blank + IS | P2-C1 | | Sample | 5/14/2012 18:23 |
| 14MAY12-perc-014.d | LC6850IC_00001 12LCMS0073, 5.0ng/mL | P2-C2 | ICV | QC | 5/14/2012 18:39 |
| 14MAY12-perc-015.d | LC6850L6_00001 12LCMS0069, 5.0ng/mL | P2-C7 | CCV6 | QC | 5/14/2012 18:55 |
| 14MAY12-perc-016.d | LC6850L3_00001 12LCMS0066, 0.50ng/mL | P2-C4 | CCV3 | QC | 5/14/2012 19:12 |
| 14MAY12-perc-017.d | G2E090000-MB, 2130084, 2.00mL/2.00mL, 331.0-L | P1-A1 | | Sample | 5/14/2012 19:28 |
| 14MAY12-perc-018.d | G2E090000-LCS, 2130084, 2.00mL/2.00mL | P1-A2 | LCS_0.5 | QC | 5/14/2012 19:44 |
| 14MAY12-perc-019.d | G2E010443-1, 2130084, 2.00mL/2.00mL | P1-A3 | | Sample | 5/14/2012 20:00 |
| 14MAY12-perc-020.d | G2E010443-2, 2130084, 2.00mL/2.00mL | P1-A4 | | Sample | 5/14/2012 20:16 |
| 14MAY12-perc-021.d | G2E010443-3, 2130084, 2.00mL/2.00mL | P1-A5 | | Sample | 5/14/2012 20:33 |
| 14MAY12-perc-022.d | G2E010443-4, 2130084, 2.00mL/2.00mL | P1-A6 | | Sample | 5/14/2012 20:49 |
| 14MAY12-perc-023.d | G2E010443-5, 2130084, 2.00mL/2.00mL | P1-A7 | | Sample | 5/14/2012 21:05 |
| 14MAY12-perc-024.d | LC6850L5_00001 12LCMS0068, 2.0ng/mL | P2-C6 | CCV5 | QC | 5/14/2012 21:21 |
| 14MAY12-perc-025.d | LC6850L9_00001 Blank + IS | P2-C1 | | Sample | 5/14/2012 21:38 |
| 14MAY12-perc-026.d | G2E070437-1, 2130084, 2.00mL/2.00mL | P1-A8 | | Sample | 5/14/2012 21:54 |
| 14MAY12-perc-027.d | G2E070437-1MS, 2130084, 2.00mL/2.00mL | P1-A9 | MS_5 | QC | 5/14/2012 22:10 |
| 14MAY12-perc-028.d | G2E070437-1SD, 2130084, 2.00mL/2.00mL | P1-B1 | MS_5 | QC | 5/14/2012 22:26 |

**Instrument A5; Agilent 6410 Mass Spectrometer with Agilent 1200 series Binary SL HPLC.**

# TestAmerica Inc.
# Perchlorate Analysis by LC/MS/MS; Method 8321 / 6850 / 331 / DOD Handbook

*Target Compound* *Perchlorate*

| Calibration STD | Level | Enabled | Response | RF | Exp Conc |
|---|---|---|---|---|---|
| 14MAY12-perc-005.d | 1 | ☑ | 3563 | 0.7751 | 0.1500 |
| 14MAY12-perc-006.d | 2 | ☑ | 5522 | 0.8235 | 0.3000 |
| 14MAY12-perc-007.d | 3 | ☑ | 8313 | 0.7655 | 0.5000 |
| 14MAY12-perc-008.d | 4 | ☑ | 18858 | 0.7690 | 1.0000 |
| 14MAY12-perc-009.d | 5 | ☑ | 33046 | 0.7757 | 2.0000 |
| 14MAY12-perc-010.d | 6 | ☑ | 80010 | 0.7926 | 5.0000 |
| 14MAY12-perc-011.d | 7 | ☑ | 150271 | 0.8131 | 10.0000 |
| 14MAY12-perc-012.d | 8 | ☑ | 274191 | 0.8454 | 20.0000 |
| 14MAY12-perc-016.d | CCV3 | ☑ | 7440 | 0.7634 | 0.5000 |
| 14MAY12-perc-031.d | CCV3 | ☑ | 6623 | 0.7837 | 0.5000 |
| 14MAY12-perc-061.d | CCV3 | ☑ | 7104 | 0.8224 | 0.5000 |
| 14MAY12-perc-024.d | CCV5 | ☑ | 30242 | 0.8042 | 2.0000 |
| 14MAY12-perc-042.d | CCV5 | ☑ | 18445 | 0.7921 | 2.0000 |
| 14MAY12-perc-060.d | CCV5 | ☑ | 16877 | 0.7762 | 2.0000 |
| 14MAY12-perc-015.d | CCV6 | ☑ | 74706 | 0.7810 | 5.0000 |
| 14MAY12-perc-030.d | CCV6 | ☑ | 67483 | 0.7884 | 5.0000 |
| 14MAY12-perc-050.d | CCV6 | ☑ | 47377 | 0.7973 | 5.0000 |
| 14MAY12-perc-073.d | CCV6 | ☑ | 63827 | 0.8162 | 5.0000 |
| 14MAY12-perc-014.d | ICV | ☑ | 88291 | 0.8279 | 5.0000 |
| 14MAY12-perc-018.d | LCS_0.5 | ☑ | 6937 | 0.7922 | 0.5000 |
| 14MAY12-perc-065.d | LCS_0.5 | ☑ | 5533 | 0.7210 | 0.5000 |
| 14MAY12-perc-066.d | LCS_0.5 | ☑ | 5509 | 0.7213 | 0.5000 |
| 14MAY12-perc-034.d | LCS_5 | ☑ | 48910 | 0.7612 | 5.0000 |
| 14MAY12-perc-035.d | LCS_5 | ☑ | 50205 | 0.8001 | 5.0000 |
| 14MAY12-perc-062.d | LODV | ☑ | 2264 | 0.8218 | 0.1500 |
| 14MAY12-perc-074.d | LODV | ☑ | 1905 | 0.7910 | 0.1500 |
| 14MAY12-perc-068.d | MS_0.5 | ☑ | 5452 | 0.8081 | 0.5000 |
| 14MAY12-perc-069.d | MS_0.5 | ☑ | 5658 | 0.7835 | 0.5000 |
| 14MAY12-perc-027.d | MS_5 | ☑ | 77333 | 1.2649 | 5.0000 |
| 14MAY12-perc-028.d | MS_5 | ☑ | 87232 | 1.3817 | 5.0000 |

# TestAmerica Inc.
# Perchlorate Analysis by LC/MS/MS; Method 8321 / 6850 / 331 / DOD Handbook

***Target Compound*** *Perchlorate (35Cl18O4)*

| Calibration STD | Level | Enabled | Response | RF | Exp Conc |
|---|---|---|---|---|---|
| 14MAY12-perc-005.d | 1 | ☑ | 306483 | 30648.2528 | 10.0000 |
| 14MAY12-perc-006.d | 2 | ☑ | 223525 | 22352.5077 | 10.0000 |
| 14MAY12-perc-007.d | 3 | ☑ | 217168 | 21716.8481 | 10.0000 |
| 14MAY12-perc-008.d | 4 | ☑ | 245210 | 24521.0230 | 10.0000 |
| 14MAY12-perc-009.d | 5 | ☑ | 212997 | 21299.6906 | 10.0000 |
| 14MAY12-perc-010.d | 6 | ☑ | 201883 | 20188.3139 | 10.0000 |
| 14MAY12-perc-011.d | 7 | ☑ | 184820 | 18482.0256 | 10.0000 |
| 14MAY12-perc-012.d | 8 | ☑ | 162173 | 16217.2955 | 10.0000 |
| 14MAY12-perc-016.d | CCV3 | ☑ | 194925 | 19492.5007 | 10.0000 |
| 14MAY12-perc-031.d | CCV3 | ☑ | 169030 | 16903.0052 | 10.0000 |
| 14MAY12-perc-061.d | CCV3 | ☑ | 172762 | 17276.2276 | 10.0000 |
| 14MAY12-perc-024.d | CCV5 | ☑ | 188033 | 18803.2699 | 10.0000 |
| 14MAY12-perc-042.d | CCV5 | ☑ | 116434 | 11643.3691 | 10.0000 |
| 14MAY12-perc-060.d | CCV5 | ☑ | 108719 | 10871.8619 | 10.0000 |
| 14MAY12-perc-015.d | CCV6 | ☑ | 191311 | 19131.0723 | 10.0000 |
| 14MAY12-perc-030.d | CCV6 | ☑ | 171180 | 17117.9934 | 10.0000 |
| 14MAY12-perc-050.d | CCV6 | ☑ | 118836 | 11883.6480 | 10.0000 |
| 14MAY12-perc-073.d | CCV6 | ☑ | 156397 | 15639.7233 | 10.0000 |
| 14MAY12-perc-014.d | ICV | ☑ | 213300 | 21329.9939 | 10.0000 |
| 14MAY12-perc-018.d | LCS_0.5 | ☑ | 175112 | 17511.1655 | 10.0000 |
| 14MAY12-perc-065.d | LCS_0.5 | ☑ | 153463 | 15346.2666 | 10.0000 |
| 14MAY12-perc-066.d | LCS_0.5 | ☑ | 152750 | 15275.0139 | 10.0000 |
| 14MAY12-perc-034.d | LCS_5 | ☑ | 128504 | 12850.3900 | 10.0000 |
| 14MAY12-perc-035.d | LCS_5 | ☑ | 125496 | 12549.6250 | 10.0000 |
| 14MAY12-perc-062.d | LODV | ☑ | 183633 | 18363.2653 | 10.0000 |
| 14MAY12-perc-074.d | LODV | ☑ | 160526 | 16052.5827 | 10.0000 |
| 14MAY12-perc-068.d | MS_0.5 | ☑ | 134950 | 13495.0416 | 10.0000 |
| 14MAY12-perc-069.d | MS_0.5 | ☑ | 144423 | 14442.3010 | 10.0000 |
| 14MAY12-perc-027.d | MS_5 | ☑ | 122278 | 12227.7853 | 10.0000 |
| 14MAY12-perc-028.d | MS_5 | ☑ | 126265 | 12626.4747 | 10.0000 |

# TestAmerica Inc.
# Perchlorate Analysis by LC/MS/MS; Method 8321 / 6850 / 331 / DOD Handbook

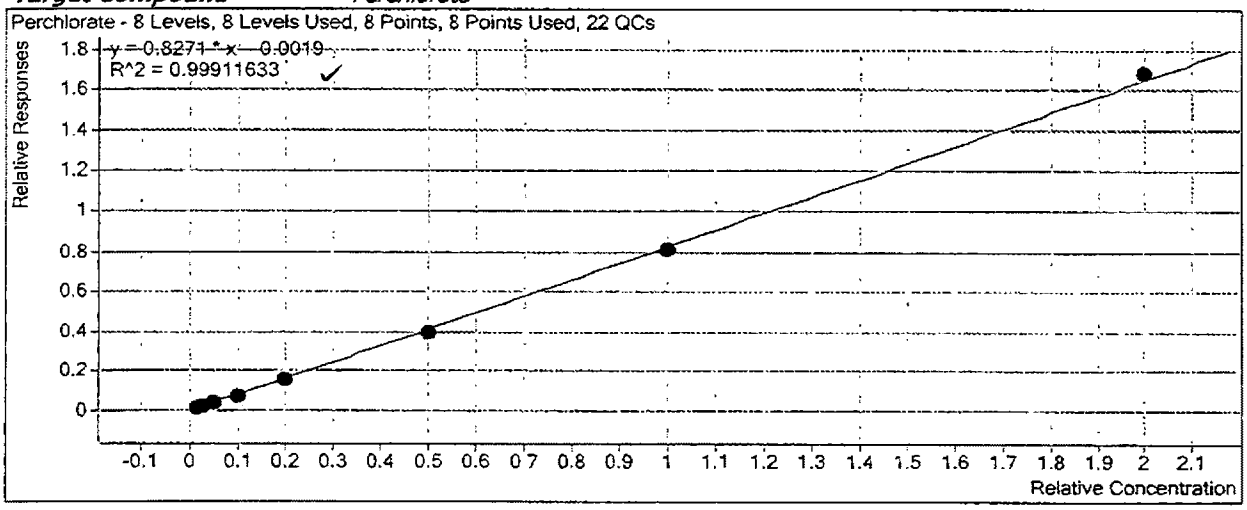
**Batch Info**

| | | | |
|---|---|---|---|
| **Batch Data Path** | D:\Masshunter\A5-data\Perc_2RNM102911VE 09\14MAY2012\QuantResults\14May2012-Perchlorate.batch.xml | | |
| **Analysis Time** | 5/15/2012 12:43 PM | **Analyst Name** | lores |
| **Report Time** | 5/22/2012 11:15 AM | **Reporter Name** | lores |
| **Last Calib Update** | 5/15/2012 12:43 PM | **Batch State** | Processed |

**Calibration Info** **Linear fit, Origin ignored, 1/x weighting**

mr 5/22/12

***Target Compound*** *Perchlorate*



# TestAmerica Inc.
## Perchlorate Analysis by LC/MS/MS; Method 8321 / 6850 / 331 / DOD Handbook

| | |
|---|---|
| **Batch Data Path** | D:\Masshunter\A5-data\Perc_2RNM102911VE 09\14MAY2012\QuantResults\14May2012-Perchlorate.batch.xml |

**Analysis Information**

| | |
|---|---|
| **Acquisition Date - Time** | 5/14/2012 18:39 |
| **Analyst** | lores |
| **Data File** | 14MAY12-perc-014 d |
| **Acquisition Method** | PercMRM_2 m |
| **Sample Name** | LC6850IC_00001 12LCMS0073, 5 0ng/mL |
| **Sample Identification** | ICV |
| **Sample Information** | IC-Pak Anion HR 75x4 6mm T=40°C iso 45:55 Coll=30 frag=130 src=1750v neb=45 gas T=350 fl=12 |
| **Sample Type** | QC |
| **Sample Position** | P2-C2 |
| **Exp. Concentration** | 5.00 |
| **Injection Volume** | 50 |

**Quantitation Results**

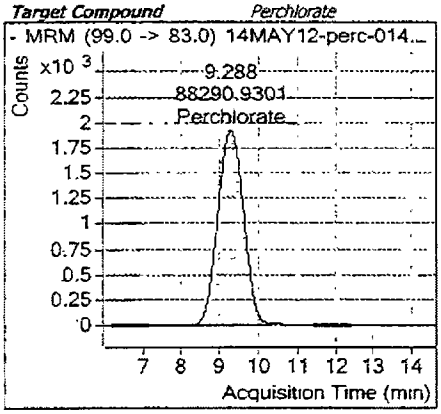
| Name | Type | RT | Area | Precursor | Product | Final Conc. | Injection Conc. | Dilution |
|---|---|---|---|---|---|---|---|---|
| Perchlorate | Target | 9.288 | 88291 | 99 | 83 | 5.02691 | 5.02691 | 1 |
| Perchlorate-(35Cl18O4) | ISTD | 9.282 | 213300 | 107 | 89 | | | 1 |

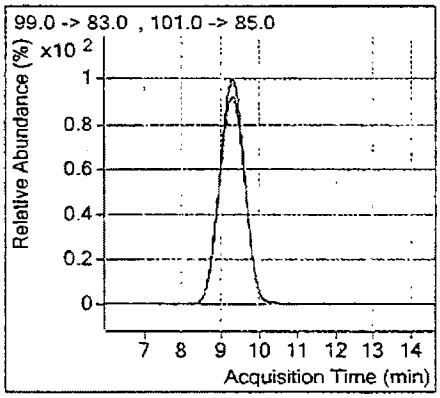
0.5 % Deviation

| Qualifier Ion | Area | Precursor | Product | Ratio | Min | Max | |
|---|---|---|---|---|---|---|---|
| Perchlorate | 28456 | 101 | 85 | 3.10 | 2.30 | 3.80 | In Control |
| Perchlorate-(35Cl18O4) | 66294 | 109 | 91 | 3.22 | 2.30 | 3.80 | In Control |

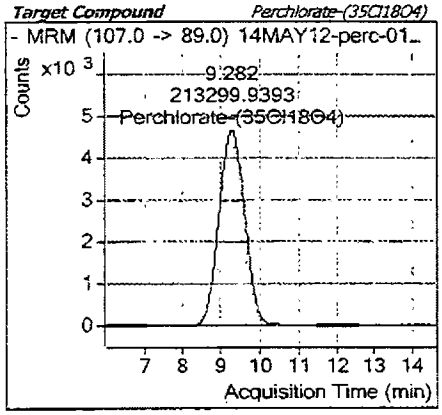
**Compound Graphics**

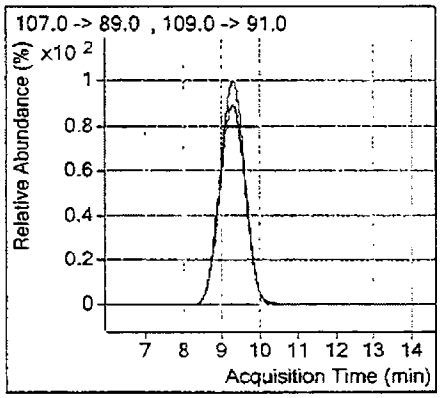
*Target Compound* *Perchlorate*




*Target Compound* *Perchlorate-(35Cl18O4)*



# TestAmerica Inc.
## Perchlorate Analysis by LC/MS/MS; Method 8321 / 6850 / 331 / DOD Handbook

| | | | | | |
|---|---|---|---|---|---|
| 14MAY12-perc-029.d | G2E070438-1, 2130084, 2.00mL/2.00mL | P1-B2 | | Sample | 5/14/2012 22:42 |
| 14MAY12-perc-030.d | LC6850L6_00001 12LCMS0069, 5.0ng/mL | P2-C7 | CCV6 | QC | 5/14/2012 22:59 |
| 14MAY12-perc-031.d | LC6850L3_00001 12LCMS0066, 0.50ng/mL | P2-C4 | CCV3 | QC | 5/14/2012 23:15 |
| 14MAY12-perc-032.d | LC6850L9_00001 Blank + IS | P2-C1 | | Sample | 5/14/2012 23:31 |
| 14MAY12-perc-033.d | G2E070000-MB, 2128058, 2.00mL/2.00mL, 6850-L | P1-B3 | | Sample | 5/14/2012 23:47 |
| 14MAY12-perc-034.d | G2E070000-LCS, 2128058, 2.00mL/2.00mL | P1-B4 | LCS_5 | QC | 5/15/2012 00:04 |
| 14MAY12-perc-035.d | G2E070000-SMCS, 2128058, 2.00mL/2.00mL | P1-B5 | LCS_5 | QC | 5/15/2012 00:20 |
| 14MAY12-perc-036.d | G2E010420-1, 2128058, 2.00mL/2.00mL | P1-B6 | | Sample | 5/15/2012 00:36 |
| 14MAY12-perc-037.d | G2E010420-2, 2128058, 2.00mL/2.00mL | P1-B7 | | Sample | 5/15/2012 00:52 |
| 14MAY12-perc-038.d | G2E010420-3, 2128058, 2.00mL/2.00mL | P1-B8 | | Sample | 5/15/2012 01:08 |
| 14MAY12-perc-039.d | G2E010422-1, 2128058, 2.00mL/2.00mL | P1-B9 | | Sample | 5/15/2012 01:25 |
| 14MAY12-perc-040.d | G2E010422-2, 2128058, 2.00mL/2.00mL, IS Low. RI. | P1-C1 | | Sample | 5/15/2012 01:41 |
| 14MAY12-perc-041.d | G2E010422-3, 2128058, 2.00mL/2.00mL, IS Low. RI. | P1-C2 | | Sample | 5/15/2012 01:57 |
| 14MAY12-perc-042.d | LC6850L5_00001 12LCMS0068, 2.0ng/mL | P2-C6 | CCV5 | QC | 5/15/2012 02:13 |
| 14MAY12-perc-043.d | LC6850L9_00001 Blank + IS | P2-C1 | | Sample | 5/15/2012 02:30 |
| 14MAY12-perc-044.d | G2E010442-1, 2128058, 2.00mL/2.00mL | P1-C3 | | Sample | 5/15/2012 02:46 |
| 14MAY12-perc-045.d | G2E010442-2, 2128058, 2.00mL/2.00mL, IS Low. RI. | P1-C4 | | Sample | 5/15/2012 03:02 |
| 14MAY12-perc-046.d | G2E010442-3, 2128058, 2.00mL/2.00mL | P1-C5 | | Sample | 5/15/2012 03:18 |
| 14MAY12-perc-047.d | G2E030413-1, 2128058, 2.00mL/2.00mL, IS Low. RI. | P1-C6 | | Sample | 5/15/2012 03:34 |
| 14MAY12-perc-048.d | G2E030413-2, 2128058, 2.00mL/2.00mL, IS Low. RI. | P1-C7 | | Sample | 5/15/2012 03:51 |
| 14MAY12-perc-049.d | G2E030413-3, 2128058, 2.00mL/2.00mL, IS Low. RI. | P1-C8 | | Sample | 5/15/2012 04:07 |
| 14MAY12-perc-050.d | LC6850L6_00001 12LCMS0069, 5.0ng/mL | P2-C7 | CCV6 | QC | 5/15/2012 04:23 |
| 14MAY12-perc-051.d | LC6850L9_00001 Blank + IS | P2-C1 | | Sample | 5/15/2012 04:39 |
| 14MAY12-perc-052.d | G2E030450-1, 2128058, 2.00mL/2.00mL, CCV IS Low, RI. | P1-C9 | | Sample | 5/15/2012 04:56 |
| 14MAY12-perc-053.d | G2E030450-2, 2128058, 2.00mL/2.00mL, CCV IS Low, RI. | P1-D1 | | Sample | 5/15/2012 05:12 |
| 14MAY12-perc-054.d | G2E030450-3, 2128058, 2.00mL/2.00mL, CCV IS Low, RI. | P1-D2 | | Sample | 5/15/2012 05:28 |
| 14MAY12-perc-055.d | G2E030450-4, 2128058, 2.00mL/2.00mL, CCV IS Low, RI. | P1-D3 | | Sample | 5/15/2012 05:44 |
| 14MAY12-perc-056.d | G2E030450-4MS, 2128058, 2.00mL/2.00mL, CCV IS Low, RI. | P1-D4 | | Sample | 5/15/2012 06:00 |
| 14MAY12-perc-057.d | G2E030450-4SD, 2128058, 2.00mL/2.00mL, CCV IS Low, RI. | P1-D5 | | Sample | 5/15/2012 06:17 |

**Instrument A5; Agilent 6410 Mass Spectrometer with Agilent 1200 series Binary SL HPLC.**

# TestAmerica Inc.
## Perchlorate Analysis by LC/MS/MS; Method 8321 / 6850 / 331 / DOD Handbook

| | | | | | |
|---|---|---|---|---|---|
| 14MAY12-perc-029.d | Perchlorate | Sample | | 49256 | |
| 14MAY12-perc-030.d | Perchlorate | QC | 5.0000 | 67483 | 95.8 |
| 14MAY12-perc-031.d | Perchlorate | QC | 0.5000 | 6623 | 99.2 |
| 14MAY12-perc-032.d | Perchlorate | Sample | | | |
| 14MAY12-perc-033.d | Perchlorate | Sample | | | |
| 14MAY12-perc-034.d | Perchlorate | QC | 5.0000 | 48910 | 92.5 |
| 14MAY12-perc-035.d | Perchlorate | QC | 5.0000 | 50205 | 97.2 |
| 14MAY12-perc-036.d | Perchlorate | Sample | | | |
| 14MAY12-perc-037.d | Perchlorate | Sample | | | |
| 14MAY12-perc-038.d | Perchlorate | Sample | | | |
| 14MAY12-perc-039.d | Perchlorate | Sample | | 317 | |
| 14MAY12-perc-040.d | Perchlorate | Sample | | 4147 | |
| 14MAY12-perc-041.d | Perchlorate | Sample | | | |
| 14MAY12-perc-042.d | Perchlorate | QC | 2.0000 | 18445 | 96.9 |
| 14MAY12-perc-043.d | Perchlorate | Sample | | | |
| 14MAY12-perc-044.d | Perchlorate | Sample | | 219 | |
| 14MAY12-perc-045.d | Perchlorate | Sample | | | |
| 14MAY12-perc-046.d | Perchlorate | Sample | | | |
| 14MAY12-perc-047.d | Perchlorate | Sample | | 972 | |
| 14MAY12-perc-048.d | Perchlorate | Sample | | | |
| 14MAY12-perc-049.d | Perchlorate | Sample | | | |
| 14MAY12-perc-050.d | Perchlorate | QC | 5.0000 | 47377 | 96.8 |
| 14MAY12-perc-051.d | Perchlorate | Sample | | | |
| 14MAY12-perc-052.d | Perchlorate | Sample | | | |
| 14MAY12-perc-053.d | Perchlorate | Sample | | 184 | |
| 14MAY12-perc-054.d | Perchlorate | Sample | | | |
| 14MAY12-perc-055.d | Perchlorate | Sample | | | |
| 14MAY12-perc-056.d | Perchlorate | Sample | | 36015 | |
| 14MAY12-perc-057.d | Perchlorate | Sample | | 18213 | |

**Instrument A5; Agilent 6410 Mass Spectrometer with Agilent 1200 series Binary SL HPLC.**



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# TestAmerica Inc.
## Perchlorate Analysis by LC/MS/MS; Method 8321 / 6850 / 331 / DOD Handbook

**Batch Data Path** D:\Masshunter\A5-data\Perc_2RNM102911VE 09\14MAY2012\QuantResults\14May2012-Perchlorate.batch.xml

### Analysis Information

| | |
|---|---|
| **Acquisition Date - Time** | 5/15/2012 02:13 |
| **Analyst** | lores |
| **Data File** | 14MAY12-perc-042.d |
| **Acquisition Method** | PercMRM_2.m |
| **Sample Name** | LC6850L5_00001 12LCMS0068, 2.0ng/mL |
| **Sample Identification** | CCV 5 |
| **Sample Information** | IC-Pak Anion HR 75x4.6mm T=40°C iso 45 55 Coll=30 frag=130 src=1750v neb=45 gas T=350 fl=12 |
| **Sample Type** | QC |
| **Sample Position** | P2-C6 |
| **Exp. Concentration** | 2.00 |
| **Injection Volume** | 50 |

### Quantitation Results

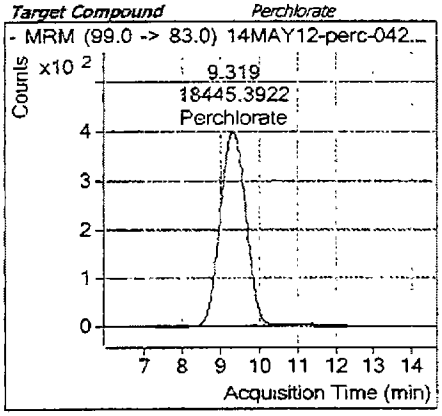
| Name | Type | RT | Area | Precursor | Product | Final Conc. | Injection Conc. | Dilution |
|---|---|---|---|---|---|---|---|---|
| Perchlorate | Target | 9.319 | 18445 | 99 | 83 | 1.93775 | 1.93775 | 1 |
| Perchlorate-(35Cl18O4) | ISTD | 9.310 | 116434 | 107 | 89 | | | 1 |

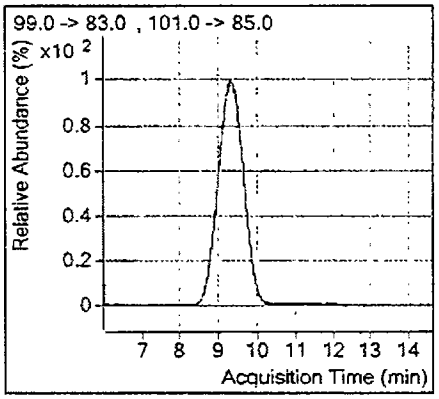
-3.1 % Deviation

| Qualifier Ion | Area | Precursor | Product | Ratio | Min | Max | |
|---|---|---|---|---|---|---|---|
| Perchlorate | 6327 | 101 | 85 | 2.92 | 2.30 | 3.80 | In Control |
| Perchlorate-(35Cl18O4) | 37366 | 109 | 91 | 3.12 | 2.30 | 3.80 | In Control |

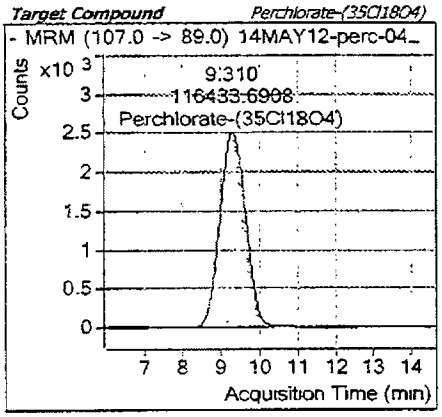
### Compound Graphics

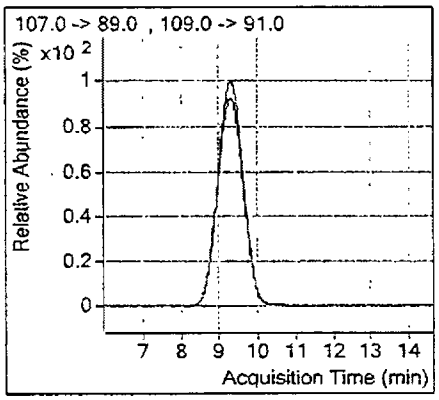
*Target Compound* *Perchlorate*




*Target Compound* *Perchlorate-(35Cl18O4)*




m 5/22/12

# TestAmerica Inc.
## Perchlorate Analysis by LC/MS/MS; Method 8321 / 6850 / 331 / DOD Handbook

| | |
|---|---|
| **Batch Data Path** | D:\Masshunter\A5-data\Perc_2RNM102911VE 09\14MAY2012\QuantResults\14May2012-Perchlorate.batch.xml |

**Analysis Information**

| | |
|---|---|
| **Acquisition Date - Time** | 5/15/2012 04:23 |
| **Analyst** | lores |
| **Data File** | 14MAY12-perc-050 d |
| **Acquisition Method** | PercMRM_2.m |
| **Sample Name** | LC6850L6_00001 12LCMS0069, 5 0ng/mL |
| **Sample Identification** | CCV 6 |
| **Sample Information** | IC-Pak Anion HR 75x4.6mm T=40°C iso 45:55 Coil=30 frag=130 src=1750v neb=45 gas T=350 fl=12 |
| **Sample Type** | QC |
| **Sample Position** | P2-C7 |
| **Exp. Concentration** | 5.00 |
| **Injection Volume** | 50 |

**Quantitation Results**

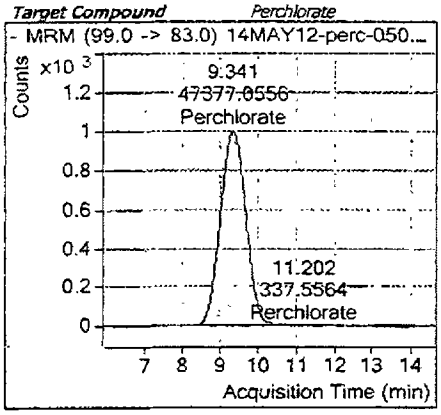
| Name | Type | RT | Area | Precursor | Product | Final Conc. | Injection Conc. | Dilution |
|---|---|---|---|---|---|---|---|---|
| Perchlorate | Target | 9.341 | 47377 | 99 | 83 | 4.84249 | 4.84249 | 1 |
| Perchlorate-(35Cl18O4) | ISTD | 9.334 | 118836 | 107 | 89 | | | 1 |

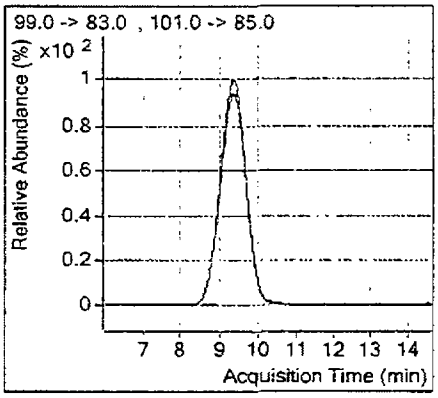
-3.2 % Deviation

| Qualifier Ion | Area | Precursor | Product | Ratio | Min | Max | |
|---|---|---|---|---|---|---|---|
| Perchlorate | 15525 | 101 | 85 | 3 05 | 2.30 | 3.80 | In Control |
| Perchlorate-(35Cl18O4) | 38145 | 109 | 91 | 3 12 | 2.30 | 3.80 | In Control |

**Compound Graphics**

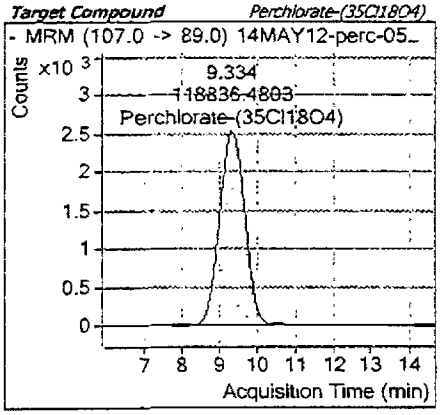
*Target Compound* *Perchlorate*

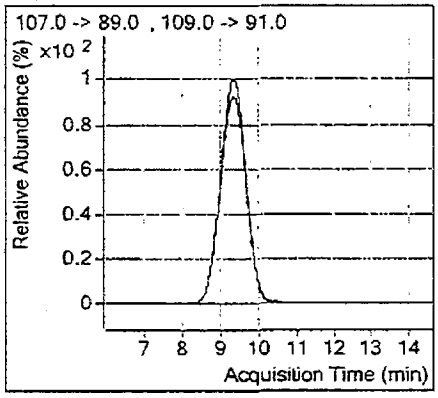



5/22/12

*Target Compound* *Perchlorate-(35Cl18O4)*



# QQQ Checktune Report

| | | | |
|---|---|---|---|
| **Instrument Name** | Instrument 1 | **MS Model** | G6410A |
| **Tune Date & Time** | 2012-05-15 15:27 | | |
| **Data Path** | D:\MassHunter\Tune\QQQ\atunes.tune.xml | | |
| **Ion Source** | ESI | | |
| **Ionization Mode** | ESI | | |

**Negative Results**

***Analyzer: MS1*** ***Polarity: Negative*** ***Width: Unit***

| m/z | m/z Exp | Tolerance | Delta | Result | FWHM | FWHM Exp | Tolerance | Delta | Result | Abundance | Minimum1 | Result |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 112.99 | 112.99 | 0.10 | 0.00 | Pass | 0.68 | 0.70 | 0.10 | -0.02 | Pass | 80670 | 0 | Pass |
| 301.98 | 302.00 | 0.10 | -0.02 | Pass | 0.71 | 0.70 | 0.10 | 0.01 | Pass | 379669 | 0 | Pass |
| 601.93 | 601.98 | 0.10 | -0.05 | Pass | 0.68 | 0.70 | 0.10 | -0.02 | Pass | 1030310 | 0 | Pass |
| 1033.93 | 1033.99 | 0.10 | -0.06 | Pass | 0.70 | 0.70 | 0.10 | 0.00 | Pass | 503215 | 0 | Pass |
| 1333.91 | 1333.97 | 0.10 | -0.06 | Pass | 0.69 | 0.70 | 0.10 | -0.01 | Pass | 769842 | 0 | Pass |
| 1633.90 | 1633.95 | 0.10 | -0.05 | Pass | 0.72 | 0.70 | 0.10 | 0.02 | Pass | 640518 | 0 | Pass |

***Analyzer: MS2*** ***Polarity: Negative*** ***Width: Unit***

| m/z | m/z Exp | Tolerance | Delta | Result | FWHM | FWHM Exp | Tolerance | Delta | Result | Abundance | Minimum1 | Result |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 112.99 | 112.99 | 0.10 | 0.00 | Pass | 0.71 | 0.70 | 0.10 | 0.01 | Pass | 286201 | 0 | Pass |
| 301.99 | 302.00 | 0.10 | -0.01 | Pass | 0.71 | 0.70 | 0.10 | 0.01 | Pass | 308726 | 0 | Pass |
| 601.98 | 601.98 | 0.10 | 0.00 | Pass | 0.70 | 0.70 | 0.10 | 0.00 | Pass | 514401 | 0 | Pass |
| 1033.99 | 1033.99 | 0.10 | 0.00 | Pass | 0.71 | 0.70 | 0.10 | 0.01 | Pass | 256872 | 0 | Pass |
| 1333.97 | 1333.97 | 0.10 | 0.00 | Pass | 0.69 | 0.70 | 0.10 | -0.01 | Pass | 649974 | 0 | Pass |
| 1633.91 | 1633.95 | 0.10 | -0.04 | Pass | 0.69 | 0.70 | 0.10 | -0.01 | Pass | 445154 | 0 | Pass |

***Analyzer: MS1*** ***Polarity: Negative*** ***Width: Wide***

| m/z | m/z Exp | Tolerance | Delta | Result | FWHM | FWHM Exp | Tolerance | Delta | Result | Abundance | Minimum1 | Result |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 112.99 | 112.99 | 0.30 | 0.00 | Pass | 1.18 | 1.20 | 0.60 | -0.02 | Pass | 96143 | 0 | Pass |
| 301.93 | 302.00 | 0.30 | -0.07 | Pass | 1.27 | 1.20 | 0.60 | 0.07 | Pass | 542698 | 0 | Pass |
| 601.91 | 601.98 | 0.30 | -0.07 | Pass | 1.32 | 1.20 | 0.60 | 0.12 | Pass | 1562602 | 0 | Pass |
| 1033.87 | 1033.99 | 0.30 | -0.12 | Pass | 1.35 | 1.20 | 0.60 | 0.15 | Pass | 912832 | 0 | Pass |
| 1333.89 | 1333.97 | 0.30 | -0.08 | Pass | 1.28 | 1.20 | 0.60 | 0.08 | Pass | 1760381 | 0 | Pass |
| 1633.87 | 1633.95 | 0.30 | -0.08 | Pass | 1.25 | 1.20 | 0.60 | 0.05 | Pass | 1603686 | 0 | Pass |



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# QQQ Checktune Report

***Analyzer: MS2*** ***Polarity: Negative*** ***Width: Wide***

| m/z | m/z Exp | Tolerance | Delta | Result | FWHM | FWHM Exp | Tolerance | Delta | Result | Abundance | Minimum1 | Result |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 113.02 | 112.99 | 0.30 | 0.03 | Pass | 1.19 | 1.20 | 0.60 | -0.01 | Pass | 361322 | 0 | Pass |
| 301.96 | 302.00 | 0.30 | -0.04 | Pass | 1.23 | 1.20 | 0.60 | 0.03 | Pass | 461092 | 0 | Pass |
| 601.92 | 601.98 | 0.30 | -0.06 | Pass | 1.24 | 1.20 | 0.60 | 0.04 | Pass | 831487 | 0 | Pass |
| 1033.92 | 1033.99 | 0.30 | -0.07 | Pass | 1.25 | 1.20 | 0.60 | 0.05 | Pass | 481824 | 0 | Pass |
| 1333.90 | 1333.97 | 0.30 | -0.07 | Pass | 1.26 | 1.20 | 0.60 | 0.06 | Pass | 1201446 | 0 | Pass |
| 1633.91 | 1633.95 | 0.30 | -0.04 | Pass | 1.26 | 1.20 | 0.60 | 0.06 | Pass | 928748 | 0 | Pass |

***Analyzer: MS1*** ***Polarity: Negative*** ***Width: Widest***

| m/z | m/z Exp | Tolerance | Delta | Result | FWHM | FWHM Exp | Tolerance | Delta | Result | Abundance | Minimum1 | Result |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 112.89 | 112.99 | 0.50 | -0.10 | Pass | 2.77 | 2.50 | 1.25 | 0.27 | Pass | 120814 | 0 | Pass |
| 301.88 | 302.00 | 0.50 | -0.12 | Pass | 2.76 | 2.50 | 1.25 | 0.26 | Pass | 768792 | 0 | Pass |
| 601.85 | 601.98 | 0.50 | -0.13 | Pass | 2.91 | 2.50 | 1.25 | 0.41 | Pass | 2002258 | 0 | Pass |
| 1033.88 | 1033.99 | 0.50 | -0.11 | Pass | 2.85 | 2.50 | 1.25 | 0.35 | Pass | 1330670 | 0 | Pass |
| 1333.92 | 1333.97 | 0.50 | -0.05 | Pass | 2.72 | 2.50 | 1.25 | 0.22 | Pass | 2650337 | 0 | Pass |
| 1633.94 | 1633.95 | 0.50 | -0.01 | Pass | 2.62 | 2.50 | 1.25 | 0.12 | Pass | 2716476 | 0 | Pass |

***Analyzer: MS2*** ***Polarity: Negative*** ***Width: Widest***

| m/z | m/z Exp | Tolerance | Delta | Result | FWHM | FWHM Exp | Tolerance | Delta | Result | Abundance | Minimum1 | Result |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 112.88 | 112.99 | 0.50 | -0.11 | Pass | 2.53 | 2.50 | 1.25 | 0.03 | Pass | 474968 | 0 | Pass |
| 301.91 | 302.00 | 0.50 | -0.09 | Pass | 2.55 | 2.50 | 1.25 | 0.05 | Pass | 663030 | 0 | Pass |
| 601.89 | 601.98 | 0.50 | -0.09 | Pass | 2.58 | 2.50 | 1.25 | 0.08 | Pass | 1377011 | 0 | Pass |
| 1033.98 | 1033.99 | 0.50 | -0.01 | Pass | 2.45 | 2.50 | 1.25 | -0.05 | Pass | 977385 | 0 | Pass |
| 1333.93 | 1333.97 | 0.50 | -0.04 | Pass | 2.51 | 2.50 | 1.25 | 0.01 | Pass | 2412062 | 0 | Pass |
| 1634.00 | 1633.95 | 0.50 | 0.05 | Pass | 2.42 | 2.50 | 1.25 | -0.08 | Pass | 2230974 | 0 | Pass |

[1] *NOTE: 1) Actual abundances depend on many factors and are instrument specific.*
*To change the minimum abundance, edit the values on the "Options" sheet.*

# TestAmerica Inc.

## Perchlorate Analysis by LC/MS/MS; Method 8321 / 6850 / 331 / DOD Handbook

**Batch Data Path** D:\Masshunter\A5-data\Perc_2RNM102911VE 09\15MAY2012\QuantResults\15May2012-Perchlorate.batch.xml

**Sequence Table**

| Data File | Sample Name | Position | Level | Sample Type | Acq. Date & Time |
|---|---|---|---|---|---|
| 15MAY12-perc-003.d | Blank No IS | P2-A5 | | Sample | 5/15/2012 16:06 |
| 15MAY12-perc-004.d | LC6850L9_00001 Blank + IS | P2-B1 | | Sample | 5/15/2012 16:22 |
| 15MAY12-perc-005.d | LC6850L1_00001 12LCMS0064, 0.15ng/mL | P2-B2 | 1 | Calibration | 5/15/2012 16:38 |
| 15MAY12-perc-006.d | LC6850L2_00001 12LCMS0065, 0.30ng/mL | P2-B3 | 2 | Calibration | 5/15/2012 16:55 |
| 15MAY12-perc-007.d | LC6850L3_00001 12LCMS0066, 0.50ng/mL | P2-B4 | 3 | Calibration | 5/15/2012 17:11 |
| 15MAY12-perc-008.d | LC6850L4_00001 12LCMS0067, 1.0ng/mL | P2-B5 | 4 | Calibration | 5/15/2012 17:27 |
| 15MAY12-perc-009.d | LC6850L5_00001 12LCMS0068, 2.0ng/mL | P2-B6 | 5 | Calibration | 5/15/2012 17:43 |
| 15MAY12-perc-010.d | LC6850L6_00001 12LCMS0069, 5.0ng/mL | P2-B7 | 6 | Calibration | 5/15/2012 18:00 |
| 15MAY12-perc-011.d | LC6850L7_00001 12LCMS0070, 10ng/mL | P2-B8 | 7 | Calibration | 5/15/2012 18:16 |
| 15MAY12-perc-012.d | LC6850L8_00001 12LCMS0071, 20ng/mL | P2-B9 | 8 | Calibration | 5/15/2012 18:32 |
| 15MAY12-perc-013.d | LC6850L9_00001 Blank + IS | P2-C1 | | Sample | 5/15/2012 18:48 |
| 15MAY12-perc-014.d | LC6850IC_00001 12LCMS0073, 5.0ng/mL | P2-C2 | ICV | QC | 5/15/2012 19:04 |
| 15MAY12-perc-015.d | LC6850L6_00001 12LCMS0069, 5.0ng/mL | P2-C7 | CCV6 | QC | 5/15/2012 19:21 |
| 15MAY12-perc-016.d | LC6850L3_00001 12LCMS0066, 0.50ng/mL | P2-C4 | CCV3 | QC | 5/15/2012 19:37 |
| 15MAY12-perc-017.d | G2E070437-1MS, 2130084, 2.00mL/2.00mL | P1-A9 | MS_5 | QC | 5/15/2012 19:53 |
| 15MAY12-perc-018.d | G2E070437-1SD, 2130084, 2.00mL/2.00mL | P1-B1 | MS_5 | QC | 5/15/2012 20:09 |
| 15MAY12-perc-019.d | G2E010422-2, 2128058, 2.00mL/2.00mL | P1-C1 | | Sample | 5/15/2012 20:25 |
| 15MAY12-perc-020.d | G2E010422-3, 2128058, 2.00mL/2.00mL | P1-C2 | | Sample | 5/15/2012 20:42 |
| 15MAY12-perc-021.d | LC6850L5_00001 12LCMS0068, 2.0ng/mL | P2-C6 | CCV5 | QC | 5/15/2012 20:58 |
| 15MAY12-perc-022.d | LC6850L9_00001 Blank + IS | P2-C1 | | Sample | 5/15/2012 21:14 |
| 15MAY12-perc-023.d | G2E010442-2, 2128058, 2.00mL/2.00mL | P1-C4 | | Sample | 5/15/2012 21:30 |
| 15MAY12-perc-024.d | G2E030413-1, 2128058, 2.00mL/2.00mL | P1-C6 | | Sample | 5/15/2012 21:47 |
| 15MAY12-perc-025.d | G2E030413-2, 2128058, 2.00mL/2.00mL | P1-C7 | | Sample | 5/15/2012 22:03 |
| 15MAY12-perc-026.d | G2E030413-3, 2128058, 2.00mL/2.00mL | P1-C8 | | Sample | 5/15/2012 22:19 |
| 15MAY12-perc-027.d | LC6850L6_00001 12LCMS0069, 5.0ng/mL,vial empty,no data | P2-C7 | CCV6 | QC | 5/15/2012 22:35 |
| 15MAY12-perc-028.d | LC6850L9_00001 Blank + IS | P2-C1 | | Sample | 5/15/2012 22:51 |

**Instrument A5; Agilent 6410 Mass Spectrometer with Agilent 1200 series Binary SL HPLC.**



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# TestAmerica Inc.

## Perchlorate Analysis by LC/MS/MS; Method 8321 / 6850 / 331 / DOD Handbook

### Quantitation Results

*Compound* *Perchlorate*

| Data File | Compound | Sample Type | Exp Conc | Response | Accuracy | Final Conc. |
|---|---|---|---|---|---|---|
| 15MAY12-perc-003.d | Perchlorate | Sample | | | | |
| 15MAY12-perc-004.d | Perchlorate | Sample | | | | |
| 15MAY12-perc-005.d | Perchlorate | Calibration | 0.1500 | 2933 | 118.0 | |
| 15MAY12-perc-006.d | Perchlorate | Calibration | 0.3000 | 3832 | 99.2 | |
| 15MAY12-perc-007.d | Perchlorate | Calibration | 0.5000 | 6244 | 95.2 | |
| 15MAY12-perc-008.d | Perchlorate | Calibration | 1.0000 | 12696 | 96.4 | |
| 15MAY12-perc-009.d | Perchlorate | Calibration | 2.0000 | 24808 | 92.8 | |
| 15MAY12-perc-010.d | Perchlorate | Calibration | 5.0000 | 60459 | 96.0 | |
| 15MAY12-perc-011.d | Perchlorate | Calibration | 10.0000 | 115391 | 101.0 | |
| 15MAY12-perc-012.d | Perchlorate | Calibration | 20.0000 | 206571 | 101.4 | |
| 15MAY12-perc-013.d | Perchlorate | Sample | | | | |
| 15MAY12-perc-014.d | Perchlorate | QC | 5.0000 | 75884 | 99.2 | |
| 15MAY12-perc-015.d | Perchlorate | QC | 5.0000 | 64708 | 94.5 | |
| 15MAY12-perc-016.d | Perchlorate | QC | 0.5000 | 6716 | 101.6 | |
| 15MAY12-perc-017.d | Perchlorate | QC | 5.0000 | 89007 | 148.6 | |
| 15MAY12-perc-018.d | Perchlorate | QC | 5.0000 | 83140 | 168.5 | |
| 15MAY12-perc-019.d | Perchlorate | Sample | | 4997 | | |
| 15MAY12-perc-020.d | Perchlorate | Sample | | | | |
| 15MAY12-perc-021.d | Perchlorate | QC | 2.0000 | 22114 | 100.1 | |
| 15MAY12-perc-022.d | Perchlorate | Sample | | | | |
| 15MAY12-perc-023.d | Perchlorate | Sample | | | | |
| 15MAY12-perc-024.d | Perchlorate | Sample | | 1473 | | |
| 15MAY12-perc-025.d | Perchlorate | Sample | | 145 | | |
| 15MAY12-perc-026.d | Perchlorate | Sample | | | | |
| 15MAY12-perc-027.d | Perchlorate | QC | 5.0000 | | | |
| 15MAY12-perc-028.d | Perchlorate | Sample | | | | |

**Instrument A5; Agilent 6410 Mass Spectrometer with Agilent 1200 series Binary SL HPLC.**



TestAmerica West Sacramento (916) 373-5600

# TestAmerica Inc.
## Perchlorate Analysis by LC/MS/MS; Method 8321 / 6850 / 331 / DOD Handbook

| | | | | | |
|---|---|---|---|---|---|
| 15MAY12-perc-029.d | Perchlorate | Sample | | | |
| 15MAY12-perc-030.d | Perchlorate | Sample | | 287 | |
| 15MAY12-perc-031.d | Perchlorate | Sample | | | |
| 15MAY12-perc-032.d | Perchlorate | Sample | | | |
| 15MAY12-perc-033.d | Perchlorate | Sample | | 38986 | |
| 15MAY12-perc-034.d | Perchlorate | Sample | | 40293 | |
| 15MAY12-perc-035.d | Perchlorate | Sample | | 279 | |
| 15MAY12-perc-036.d | Perchlorate | Sample | | | |
| 15MAY12-perc-037.d | Perchlorate | QC | 2.0000 | 17210 | 100.1 |
| 15MAY12-perc-038.d | Perchlorate | QC | 0.5000 | 7784 | 97.1 |
| 15MAY12-perc-039.d | Perchlorate | QC | 0.1500 | 2540 | 110.4 |
| 15MAY12-perc-040.d | Perchlorate | Sample | | | |
| 15MAY12-perc-041.d | Perchlorate | Sample | | | |
| 15MAY12-perc-042.d | Perchlorate | QC | 0.5000 | 6122 | 88.1 |
| 15MAY12-perc-043.d | Perchlorate | QC | 0.5000 | 6433 | 94.9 |
| 15MAY12-perc-044.d | Perchlorate | Sample | | | |
| 15MAY12-perc-045.d | Perchlorate | QC | 0.5000 | 5933 | 96.6 |
| 15MAY12-perc-046.d | Perchlorate | QC | 0.5000 | 6477 | 97.9 |
| 15MAY12-perc-047.d | Perchlorate | Sample | | | |
| 15MAY12-perc-048.d | Perchlorate | Sample | | | |
| 15MAY12-perc-049.d | Perchlorate | Sample | | | |
| 15MAY12-perc-050.d | Perchlorate | QC | 5.0000 | | |
| 15MAY12-perc-051.d | Perchlorate | QC | 0.1500 | 2768 | 112.2 |
| 15MAY12-perc-052.d | Perchlorate | Sample | | | |

TestAmerica West Sacramento (916) 373-5600

# TestAmerica Inc.
# Perchlorate Analysis by LC/MS/MS; Method 8321 / 6850 / 331 / DOD Handbook

*Target Compound* *Perchlorate*

| Calibration STD | Level | Enabled | Response | RF | Exp Conc |
|---|---|---|---|---|---|
| 15MAY12-perc-005.d | 1 | ☑ | 2933 | 0.8645 | 0.1500 |
| 15MAY12-perc-006.d | 2 | ☑ | 3832 | 0.7689 | 0.3000 |
| 15MAY12-perc-007.d | 3 | ☑ | 6244 | 0.7592 | 0.5000 |
| 15MAY12-perc-008.d | 4 | ☑ | 12696 | 0.7882 | 1.0000 |
| 15MAY12-perc-009.d | 5 | ☑ | 24808 | 0.7672 | 2.0000 |
| 15MAY12-perc-010.d | 6 | ☑ | 60459 | 0.7994 | 5.0000 |
| 15MAY12-perc-011.d | 7 | ☑ | 115391 | 0.8428 | 10.0000 |
| 15MAY12-perc-012.d | 8 | ☑ | 206571 | 0.8474 | 20.0000 |
| 15MAY12-perc-016.d | CCV3 | ☑ | 6716 | 0.8127 | 0.5000 |
| 15MAY12-perc-038.d | CCV3 | ☑ | 7784 | 0.7758 | 0.5000 |
| 15MAY12-perc-021.d | CCV5 | ☑ | 22114 | 0.8283 | 2.0000 |
| 15MAY12-perc-037.d | CCV5 | ☑ | 17210 | 0.8284 | 2.0000 |
| 15MAY12-perc-015.d | CCV6 | ☑ | 64708 | 0.7870 | 5.0000 |
| 14MAY12-perc-015.d | CCV6 | ☑ | 74706 | 0.7810 | 5.0000 |
| 14MAY12-perc-015.d | CCV6 | ☑ | 74706 | 0.7810 | 5.0000 |
| 15MAY12-perc-014.d | ICV | ☑ | 75884 | 0.8263 | 5.0000 |
| 15MAY12-perc-042.d | LCS_0.5 | ☑ | 6122 | 0.7004 | 0.5000 |
| 15MAY12-perc-043.d | LCS_0.5 | ☑ | 6433 | 0.7575 | 0.5000 |
| 15MAY12-perc-039.d | LODV | ☑ | 2540 | 0.8008 | 0.1500 |
| 15MAY12-perc-051.d | LODV | ☑ | 2768 | 0.8164 | 0.1500 |
| 15MAY12-perc-045.d | MS_0.5 | ☑ | 5933 | 0.7717 | 0.5000 |
| 15MAY12-perc-046.d | MS_0.5 | ☑ | 6477 | 0.7824 | 0.5000 |
| 15MAY12-perc-017.d | MS_5 | ☑ | 89007 | 1.2396 | 5.0000 |
| 15MAY12-perc-018.d | MS_5 | ☑ | 83140 | 1.4060 | 5.0000 |

# TestAmerica Inc.
# Perchlorate Analysis by LC/MS/MS; Method 8321 / 6850 / 331 / DOD Handbook

*Target Compound* *Perchlorate-(35Cl18O4)*

| Calibration STD | Level | Enabled | Response | RF | Exp Conc |
|---|---|---|---|---|---|
| 15MAY12-perc-005.d | 1 | ☑ | 226215 | 22621.5115 | 10.0000 |
| 15MAY12-perc-006.d | 2 | ☑ | 166114 | 16611.4350 | 10.0000 |
| 15MAY12-perc-007.d | 3 | ☑ | 164486 | 16448.6314 | 10.0000 |
| 15MAY12-perc-008.d | 4 | ☑ | 161070 | 16106.9999 | 10.0000 |
| 15MAY12-perc-009.d | 5 | ☑ | 161679 | 16167.8588 | 10.0000 |
| 15MAY12-perc-010.d | 6 | ☑ | 151266 | 15126.6341 | 10.0000 |
| 15MAY12-perc-011.d | 7 | ☑ | 136920 | 13691.9938 | 10.0000 |
| 15MAY12-perc-012.d | 8 | ☑ | 121886 | 12188.6009 | 10.0000 |
| 15MAY12-perc-016.d | CCV3 | ☑ | 165268 | 16526.7978 | 10.0000 |
| 15MAY12-perc-038.d | CCV3 | ☑ | 200658 | 20065.7991 | 10.0000 |
| 15MAY12-perc-021.d | CCV5 | ☑ | 133486 | 13348.6311 | 10.0000 |
| 15MAY12-perc-037.d | CCV5 | ☑ | 103876 | 10387.5742 | 10.0000 |
| 15MAY12-perc-015.d | CCV6 | ☑ | 164451 | 16445.1109 | 10.0000 |
| 14MAY12-perc-015.d | CCV6 | ☑ | 74706 | 0.7810 | 10.0000 |
| 14MAY12-perc-015.d | CCV6 | ☑ | 74706 | 0.7810 | 10.0000 |
| 15MAY12-perc-014.d | ICV | ☑ | 183664 | 18366.4324 | 10.0000 |
| 15MAY12-perc-042.d | LCS_0.5 | ☑ | 174803 | 17480.3348 | 10.0000 |
| 15MAY12-perc-043.d | LCS_0.5 | ☑ | 169858 | 16985.8457 | 10.0000 |
| 15MAY12-perc-039.d | LODV | ☑ | 211440 | 21144.0377 | 10.0000 |
| 15MAY12-perc-051.d | LODV | ☑ | 226082 | 22608.1803 | 10.0000 |
| 15MAY12-perc-045.d | MS_0.5 | ☑ | 153767 | 15376.6819 | 10.0000 |
| 15MAY12-perc-046.d | MS_0.5 | ☑ | 165550 | 16555.0365 | 10.0000 |
| 15MAY12-perc-017.d | MS_5 | ☑ | 143601 | 14360.1280 | 10.0000 |
| 15MAY12-perc-018.d | MS_5 | ☑ | 118261 | 11826.1460 | 10.0000 |

# TestAmerica Inc.
# Perchlorate Analysis by LC/MS/MS; Method 8321 / 6850 / 331 / DOD Handbook

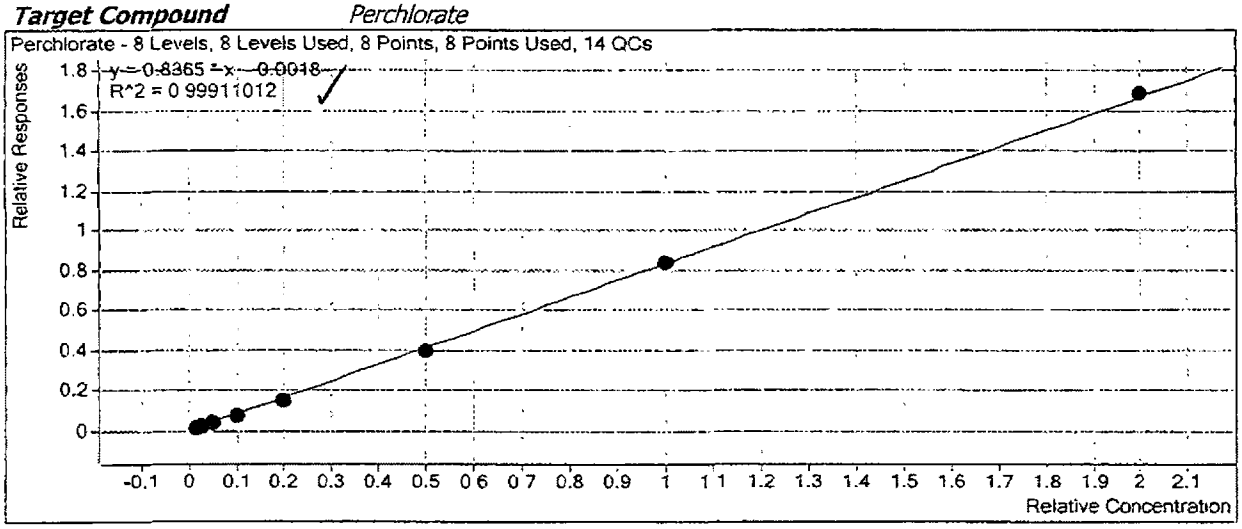
**Batch Info**

| | | | |
|---|---|---|---|
| **Batch Data Path** | D:\Masshunter\A5-data\Perc_2RNM102911VE 09\15MAY2012\QuantResults\15May2012-Perchlorate.batch.xml | | |
| **Analysis Time** | 5/16/2012 7:40 AM | **Analyst Name** | lores |
| **Report Time** | 5/16/2012 8:07 AM | **Reporter Name** | lores |
| **Last Calib Update** | 5/16/2012 7:40 AM | **Batch State** | Processed |

**Calibration Info** Linear fit, Origin ignored, 1/x weighting

m 5/22/12

***Target Compound*** *Perchlorate*



# TestAmerica Inc.
## Perchlorate Analysis by LC/MS/MS; Method 8321 / 6850 / 331 / DOD Handbook

| | |
|---|---|
| **Batch Data Path** | D:\Masshunter\A5-data\Perc_2RNM102911VE 09\15MAY2012\QuantResults\15May2012-Perchlorate.batch.xml |

### Analysis Information

| | |
|---|---|
| **Acquisition Date - Time** | 5/15/2012 19:04 |
| **Analyst** | lores |
| **Data File** | 15MAY12-perc-014 d |
| **Acquisition Method** | PercMRM_2.m |
| **Sample Name** | LC6850IC_00001 12LCMS0073, 5.0ng/mL |
| **Sample Identification** | ICV |
| **Sample Information** | IC-Pak Anion HR 75x4 6mm T=40°C iso 45.55 Coll=30 frag=130 src=1750v neb=45 gas T=350 fl=12 |
| **Sample Type** | QC |
| **Sample Position** | P2-C2 |
| **Exp. Concentration** | 5.00 |
| **Injection Volume** | 50 |

ICV

### Quantitation Results

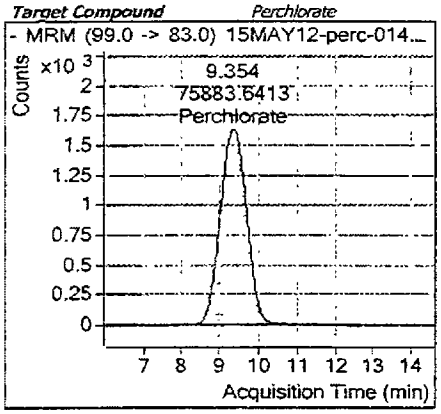
| Name | Type | RT | Area | Precursor | Product | Final Conc. | Injection Conc. | Dilution |
|---|---|---|---|---|---|---|---|---|
| Perchlorate | Target | 9.354 | 75884 | 99 | 83 | 4.96114 | 4.96114 | 1 |
| Perchlorate-(35Cl18O4) | ISTD | 9.347 | 183664 | 107 | 89 | | | 1 |

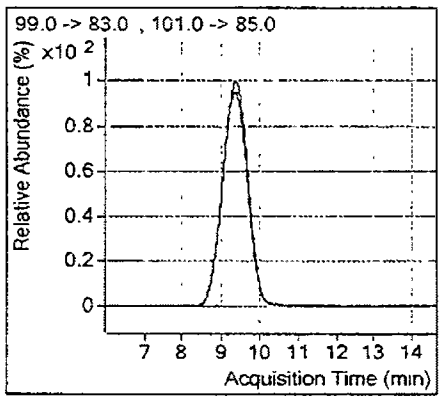
-0.8 % Deviation

| Qualifier Ion | Area | Precursor | Product | Ratio | Min | Max | |
|---|---|---|---|---|---|---|---|
| Perchlorate | 24860 | 101 | 85 | 3.05 | 2.30 | 3.80 | In Control |
| Perchlorate-(35Cl18O4) | 58372 | 109 | 91 | 3.15 | 2.30 | 3.80 | In Control |

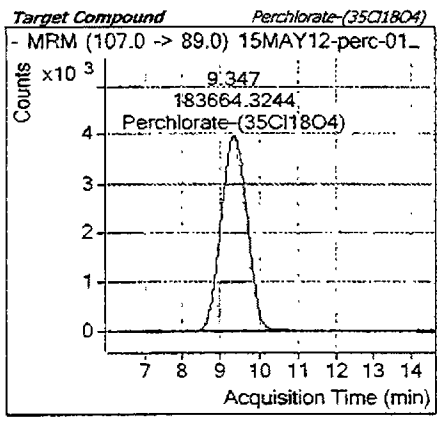
### Compound Graphics

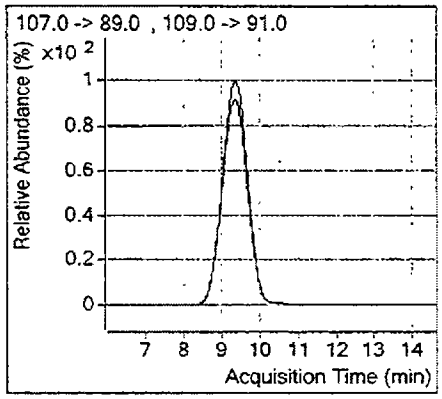
*Target Compound* *Perchlorate*




*Target Compound* *Perchlorate-(35Cl18O4)*




m 5/22/12

# TestAmerica Inc.
## Perchlorate Analysis by LC/MS/MS; Method 8321 / 6850 / 331 / DOD Handbook

| | |
|---|---|
| **Batch Data Path** | D:\Masshunter\A5-data\Perc_2RNM102911VE 09\15MAY2012\QuantResults\15May2012-Perchlorate.batch.xml |

### Analysis Information

| | |
|---|---|
| **Acquisition Date - Time** | 5/15/2012 20:58 |
| **Analyst** | lores |
| **Data File** | 15MAY12-perc-021.d |
| **Acquisition Method** | PercMRM_2.m |
| **Sample Name** | LC6850L5_00001 12LCMS0068, 2.0ng/mL |
| **Sample Identification** | CCV 5 |
| **Sample Information** | IC-Pak Anion HR 75x4.6mm T=40°C iso 45.55 Coll=30 frag=130 src=1750v neb=45 gas T=350 fl=12 |
| **Sample Type** | QC |
| **Sample Position** | P2-C6 |
| **Exp. Concentration** | 2.00 |
| **Injection Volume** | 50 |

### Quantitation Results

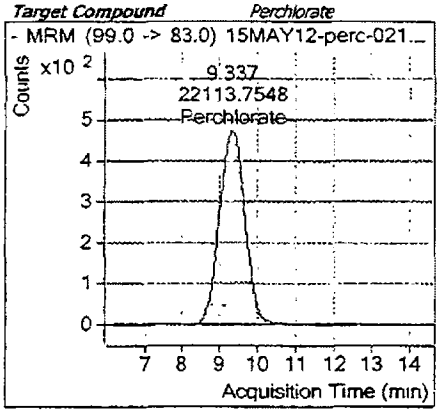
| Name | Type | RT | Area | Precursor | Product | Final Conc. | Injection Conc. | Dilution |
|---|---|---|---|---|---|---|---|---|
| Perchlorate | Target | 9.337 | 22114 | 99 | 83 | 2.00239 | 2.00239 | 1 |
| Perchlorate-(35Cl18O4) | ISTD | 9.336 | 133486 | 107 | 89 | | | 1 |

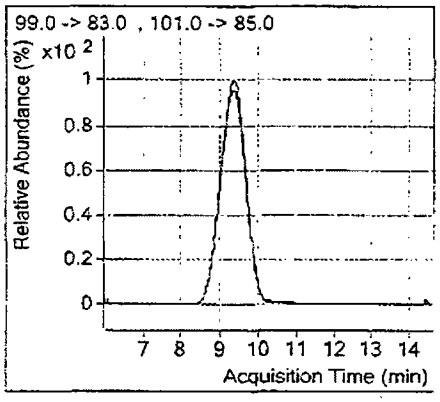
0.1 % Deviation

| Qualifier Ion | Area | Precursor | Product | Ratio | Min | Max | |
|---|---|---|---|---|---|---|---|
| Perchlorate | 7292 | 101 | 85 | 3.03 | 2.30 | 3.80 | In Control |
| Perchlorate-(35Cl18O4) | 43155 | 109 | 91 | 3.09 | 2.30 | 3.80 | In Control |

### Compound Graphics

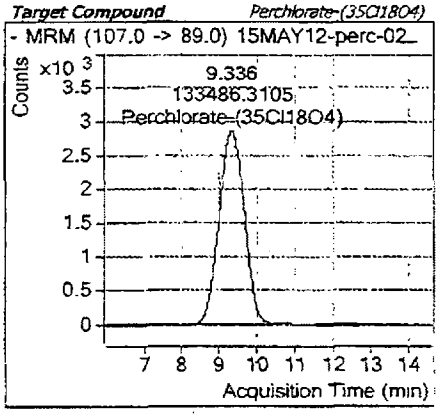
*Target Compound* *Perchlorate*

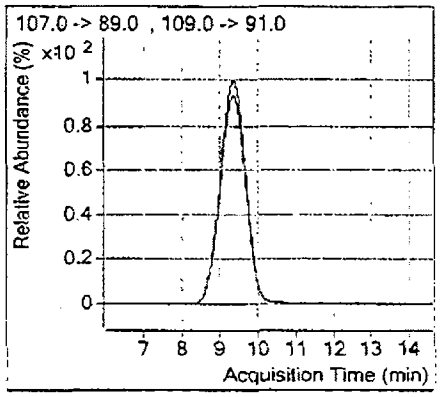



5/22/12

*Target Compound* *Perchlorate-(35Cl18O4)*



# TestAmerica Inc.
## Perchlorate Analysis by LC/MS/MS; Method 8321 / 6850 / 331 / DOD Handbook

| | |
|---|---|
| **Batch Data Path** | D:\Masshunter\A5-data\Perc_2RNM102911VE 09\15MAY2012\QuantResults\15May2012-Perchlorate.batch.xml |

**Analysis Information**

| | |
|---|---|
| **Acquisition Date - Time** | 5/16/2012 01:17 |
| **Analyst** | lores |
| **Data File** | 15MAY12-perc-037.d |
| **Acquisition Method** | PercMRM_2.m |
| **Sample Name** | LC6850L5_00001 12LCMS0068, 2 0ng/mL |
| **Sample Identification** | CCV 5 |
| **Sample Information** | IC-Pak Anion HR 75x4.6mm T=40°C iso 45 55 Coll=30 frag=130 src=1750v neb=45 gas T=350 fl=12 |
| **Sample Type** | QC |
| **Sample Position** | P2-C6 |
| **Exp. Concentration** | 2.00 |
| **Injection Volume** | 50 |

**Quantitation Results**

| Name | Type | RT | Area | Precursor | Product | Final Conc. | Injection Conc. | Dilution |
|---|---|---|---|---|---|---|---|---|
| Perchlorate | Target | 9.383 | 17210 | 99 | 83 | 2.00252 | 2.00252 | 1 |
| Perchlorate-(35Cl18O4) | ISTD | 9.375 | 103876 | 107 | 89 | | | 1 |

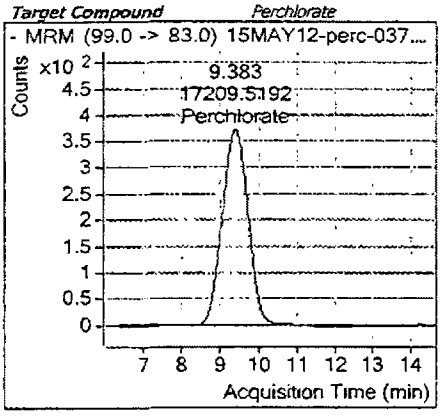
0.1 % Deviation

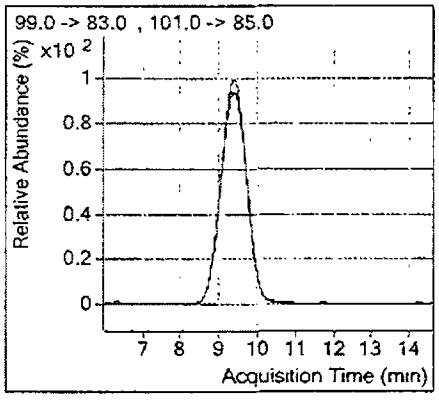
| Qualifier Ion | Area | Precursor | Product | Ratio | Min | Max | |
|---|---|---|---|---|---|---|---|
| Perchlorate | 5642 | 101 | 85 | 3 05 | 2.30 | 3 80 | In Control |
| Perchlorate-(35Cl18O4) | 33188 | 109 | 91 | 3.13 | 2 30 | 3 80 | In Control |

**Compound Graphics**

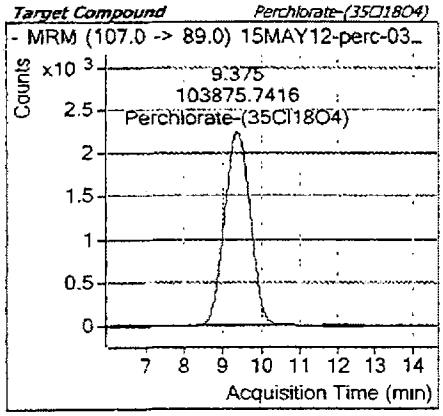
5/22/12

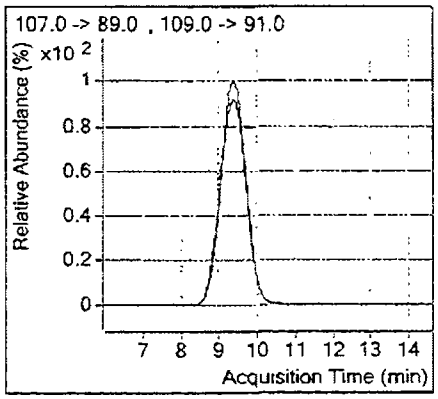
*Target Compound* *Perchlorate*




*Target Compound* *Perchlorate-(35Cl18O4)*



## METHOD BLANK REPORT

HPLC - Mass. Spec.

Client Lot #...: G2E010442 Work Order #...: MTELA1AA Matrix.....: WATER
MB Lot-Sample #: G2E070000-058
Prep Date.....: 05/07/12
Analysis Date..: 05/14/12 Prep Batch #...: 2128058
Dilution Factor: 1

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---|---|---|---|---|
| Perchlorate | ND | 1.0 | ug/L | SW846 6850 |

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

HPLC - Mass. Spec.

Client Lot #...: G2E010442 Work Order #...: MTELA1AC Matrix.....: WATER
LCS Lot-Sample#: G2E070000-058
Prep Date.....: 05/07/12 Analysis Date..: 05/15/12
Prep Batch #...: 2128058
Dilution Factor: 1

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCENT RECOVERY | METHOD |
|---|---|---|---|---|---|
| Perchlorate | 5.00 | 4.62 | ug/L | 92 | SW846 6850 |

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

HPLC - Mass. Spec.

Client Lot #...: G2E010442 Work Order #...: MTELA1AD Matrix.....: WATER
LCS Lot-Sample#: G2E070000-058
Prep Date.....: 05/07/12 Analysis Date..: 05/15/12
Prep Batch #...: 2128058
Dilution Factor: 1

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCENT RECOVERY | METHOD |
|---|---|---|---|---|---|
| Perchlorate | 5.00 | 4.86 | ug/L | 97 | SW846 6850 |

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

Bold print denotes control parameters

## MATRIX SPIKE SAMPLE EVALUATION REPORT

HPLC - Mass. Spec.

**Client Lot #...:** G2E010442 **Work Order #...:** MTDHX1AC-MS **Matrix.....:** WATER
**MS Lot-Sample #:** G2E030450-004 MTDHX1AD-MSD
**Date Sampled...:** 05/01/12 **Date Received..:** 05/03/12
**Prep Date.....:** 05/07/12 **Analysis Date..:** 05/16/12
**Prep Batch #...:** 2128058
**Dilution Factor:** 1

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD | RPD LIMITS | METHOD |
|---|---|---|---|---|---|
| Perchlorate | 99 | (80 - 120) | | | SW846 6850 |
| | 97 | (80 - 120) | 1.8 | (0-15) | SW846 6850 |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

HPLC - Mass. Spec.

Client Lot #...: G2E010442 Work Order #...: MTDHX1AC-MS Matrix.....: WATER
MS Lot-Sample #: G2E030450-004 MTDHX1AD-MSD
Date Sampled...: 05/01/12 Date Received..: 05/03/12
Prep Date.....: 05/07/12 Analysis Date..: 05/16/12
Prep Batch #...: 2128058
Dilution Factor: 1

| PARAMETER | SAMPLE AMOUNT | SPIKE AMT | MEASRD AMOUNT | UNITS | PERCNT RECVRY | RPD | METHOD |
|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 5.00 | 4.95 | ug/L | 99 | | SW846 6850 |
| | ND | 5.00 | 4.86 | ug/L | 97 | 1.8 | SW846 6850 |

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

# QC Sample Results

Client: TestAmerica North Canton
Project/Site: 240-10670

TestAmerica Job ID: G2E010442

## Method: 6850 - 6850, Perchlorate by LC/MS/MS

**Lab Sample ID: G2E070000058B**
**Matrix: Water**
**Analysis Batch: 2128058**

**Client Sample ID: Method Blank**
**Prep Type: Dissolved**
**Prep Batch: 2128058_P**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | | 1.0 | 0.082 | ug/L | | 05/07/12 08:50 | 05/14/12 23:47 | 1 |

**Lab Sample ID: G2E070000058C**
**Matrix: Water**
**Analysis Batch: 2128058**

**Client Sample ID: Lab Control Sample**
**Prep Type: Dissolved**
**Prep Batch: 2128058_P**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Perchlorate | 5.00 | 4.62 | | ug/L | | 92 | 80 - 120 |

**Lab Sample ID: G2E070000058C**
**Matrix: Water**
**Analysis Batch: 2128058**

**Client Sample ID: Lab Control Sample**
**Prep Type: Dissolved**
**Prep Batch: 2128058_P**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Perchlorate | 5.00 | 4.86 | | ug/L | | 97 | 80 - 120 |

**Lab Sample ID: G2E030450004D**
**Matrix: Water**
**Analysis Batch: 2128058**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Dissolved**
**Prep Batch: 2128058_P**

| Analyte | Sample Result | Sample Qualifier | Spike Added | SD1 Result | SD1 Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | | 5.00 | 4.86 | | ug/L | | 97 | 80 - 120 | 1.8 | 15 |

**Lab Sample ID: G2E030450004S**
**Matrix: Water**
**Analysis Batch: 2128058**

**Client Sample ID: Matrix Spike**
**Prep Type: Dissolved**
**Prep Batch: 2128058_P**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS1 Result | MS1 Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | | 5.00 | 4.95 | | ug/L | | 99 | 80 - 120 |

# Method Summary

Client: TestAmerica North Canton
Project/Site: 240-10670

TestAmerica Job ID: G2E010442

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 6850 | 6850, Perchlorate by LC/MS/MS | SW846 | TAL WSC |

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL WSC = TestAmerica West Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

# Sample Summary

Client: TestAmerica North Canton
Project/Site: 240-10670

TestAmerica Job ID: G2E010442

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| G2E010442001 | MT-MW05S-042512 | Water | 04/25/12 10:51 | 04/28/12 09:00 |
| G2E010442002 | MT-MW01S-042512 | Water | 04/25/12 13:35 | 04/28/12 09:00 |
| G2E010442003 | MT-MW03S-042512 | Water | 04/25/12 14:50 | 04/28/12 09:00 |

| **VOC CALCULATION** | SAMPLE | | |
|---|---|---|---|
| | MT-MW05S-042512 | | |
| TARGET ANALYTE | trichloroethene | | |
| ANALYTE RESPONSE | 16272 | | |
| INTERNAL STANDARD | fluorobenzene | | |
| I.S. RESPONSE | 1739898 | | |
| I.S. CONCENTRATION | 10 | µg/L | |
| ANALYTE CAL. RF | 0.2698 | | |
| DILUTION FACTOR (DF) | 1 | | |
| INITIAL SAMPLE VOLUME - V1 | 5 | ml | |
| FINAL SAMPLE VOLUME - V2 | 5 | ml | |
| (ANALYTE RESPONSE) X ( I.S. CONCENTRATION) X DF | = | 0.35 | µg/L |
| (I.S. RESPONSE) X (CAL. R.F.) | | | |

TestAmerica Laboratories
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Ncchrom\ChromData\A3UX16\20120430-9532.b\UXM5281.D | | |
| Lims ID: | 240-10670-A-2 | Client ID: | MT-MW05S-042512 |
| Inject. Date: | 30-Apr-2012 16:17:30 | Dil. Factor: | 1.0000 |
| Sample Type: | Client | | |
| Sample ID: | 240-0009532-013 | | |
| Misc. Info.: | M20430A,8260LLUX16,,1904 | | |
| Operator: | 1904 | Instrument ID: | A3UX16 |
| Vol. Injected: | 1.0000 | ALS Bottle#: | 12 |
| Lims Batch ID: | 42171 | Lims Sample ID: | 13 |
| Detector: | MS SCAN | | |
| Method: | \\Ncchrom\ChromData\A3UX16\20120430-9532.b\8260_16.m | | |
| Last Update: | 01-May-2012 09:03:45 | Calib Date: | 29-Apr-2012 19:50:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Ncchrom\ChromData\A3UX16\20120429-9509.b\UXM5250.D | | |
| Limit Group: | MSV 8260DOD ICAL | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Process Host: | CORP-CTX-15 | | |
| First Level Reviewer: williamsla | | Date: | 01-May-2012 17:10:27 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 141 1-Chlorooctane | 1 | | 0.000 | | | | | |
| * 1 Fluorobenzene | 96 | 5.702 | 5.702 | 0.0 | 98 | 1739898 | 10.0 | |
| * 2 Chlorobenzene-d5 | 117 | 8.394 | 8.394 | 0.0 | 91 | 1159226 | 10.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 10.635 | 10.635 | 0.0 | 98 | 556455 | 10.0 | |
| $ 5 Dibromofluoromethane (Surr) | 113 | 5.121 | 5.121 | 0.0 | 57 | 339573 | 8.17 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 5.405 | 5.405 | 0.0 | 0 | 556567 | 8.27 | |
| $ 7 Toluene-d8 (Surr) | 98 | 7.077 | 7.077 | 0.0 | 95 | 1584274 | 8.81 | |
| $ 131 4-Bromofluorobenzene (Surr) | 95 | 9.508 | 9.508 | 0.0 | 81 | 581554 | 9.06 | |
| 134 Chlorodifluoromethane TIC | 1 | | 0.000 | | | | | |
| 12 Dichlorodifluoromethane | 85 | | 1.670 | | | | | |
| 13 Chloromethane | 50 | 1.824 | 1.836 | -0.012 | 95 | 27765 | 0.3460 | |
| 14 Vinyl chloride | 62 | | 1.954 | | | | | |
| 15 Bromomethane | 94 | | 2.298 | | | | | |
| 16 Chloroethane | 64 | | 2.405 | | | | | |
| 18 Trichlorofluoromethane | 101 | | 2.666 | | | | | |
| 21 1,1-Dichloroethene | 96 | | 3.152 | | | | | |
| 23 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | | 3.176 | | | | | |
| 22 Acetone | 43 | | 3.176 | | | | | |
| 26 Carbon disulfide | 76 | | 3.365 | | | | | |
| 30 Methylene Chloride | 84 | | 3.591 | | | | | |
| 31 2-Methyl-2-propanol | 59 | | 3.674 | | | | | |
| 34 Methyl tert-butyl ether | 73 | | 3.840 | | | | | |
| 33 trans-1,2-Dichloroethene | 96 | | 3.840 | | | | | |
| 36 1,1-Dichloroethane | 63 | | 4.207 | | | | | |
| 37 Vinyl acetate | 86 | | 4.243 | | | | | |
| 38 Isopropyl ether | 87 | 4.279 | 4.279 | 0.0 | 87 | 6622 | 0.1372 | |
| 40 Tert-butyl ethyl ether | 59 | | 4.587 | | | | | |
| 42 cis-1,2-Dichloroethene | 96 | | 4.705 | | | | | |
| 41 2-Butanone (MEK) | 43 | | 4.705 | | | | | |
| 43 2,2-Dichloropropane | 77 | | 4.717 | | | | | |
| 47 Chlorobromomethane | 128 | | 4.919 | | | | | |

Report Date: 01-May-2012 17:10:27 Chrom Revision: 2.0 08-Feb-2012 11:07:54
Data File: \\Ncchrom\ChromData\A3UX16\20120430-9532.b\UXM5281.D

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 49 Chloroform | 83 | 4.978 | 4.978 | 0.0 | 66 | 10562 | 0.1146 | |
| 50 1,1,1-Trichloroethane | 97 | | 5.156 | | | | | |
| 52 1,1-Dichloropropene | 75 | | 5.298 | | | | | |
| 53 Carbon tetrachloride | 117 | | 5.310 | | | | | |
| 56 1,2-Dichloroethane | 62 | | 5.476 | | | | | |
| 55 Benzene | 78 | | 5.476 | | | | | |
| 57 Tert-amyl methyl ether | 73 | | 5.559 | | | | | |
| 60 Trichloroethene | 130 | 6.022 | 6.022 | 0.0 | 74 | 16272 | 0.3467 | |
| 62 1,2-Dichloropropane | 63 | | 6.212 | | | | | |
| 65 Dibromomethane | 93 | | 6.306 | | | | | |
| 67 Dichlorobromomethane | 83 | | 6.437 | | | | | |
| 69 2-Chloroethyl vinyl ether | 63 | | 6.686 | | | | | |
| 70 cis-1,3-Dichloropropene | 75 | | 6.828 | | | | | |
| 71 4-Methyl-2-pentanone (MIBK) | 43 | | 6.947 | | | | | |
| 72 Toluene | 91 | | 7.136 | | | | | |
| 73 trans-1,3-Dichloropropene | 75 | | 7.314 | | | | | |
| 76 1,3-Dichloropropane | 76 | | 7.635 | | | | | |
| 77 Tetrachloroethene | 164 | | 7.646 | | | | | |
| 78 2-Hexanone | 43 | | 7.694 | | | | | |
| 79 Chlorodibromomethane | 129 | | 7.848 | | | | | |
| 123 Ethylene Dibromide | 107 | | 7.967 | | | | | |
| 82 Chlorobenzene | 112 | | 8.429 | | | | | |
| 83 1,1,1,2-Tetrachloroethane | 131 | | 8.488 | | | | | |
| 84 Ethylbenzene | 106 | | 8.524 | | | | | |
| 10 m-Xylene & p-Xylene | 106 | | 8.631 | | | | | |
| 85 o-Xylene | 106 | | 9.010 | | | | | |
| 86 Styrene | 104 | | 9.010 | | | | | |
| 87 Bromoform | 173 | | 9.200 | | | | | |
| 88 Isopropylbenzene | 105 | | 9.354 | | | | | |
| 90 1,1,2,2-Tetrachloroethane | 83 | | 9.615 | | | | | |
| 91 Bromobenzene | 156 | | 9.662 | | | | | |
| 92 1,2,3-Trichloropropane | 110 | | 9.674 | | | | | |
| 94 N-Propylbenzene | 120 | | 9.757 | | | | | |
| 95 2-Chlorotoluene | 126 | | 9.840 | | | | | |
| 104 4-Chlorotoluene | 126 | | 9.947 | | | | | |
| 97 tert-Butylbenzene | 119 | | 10.243 | | | | | |
| 98 1,2,4-Trimethylbenzene | 105 | | 10.291 | | | | | |
| 99 sec-Butylbenzene | 105 | | 10.457 | | | | | |
| 100 1,3-Dichlorobenzene | 146 | | 10.575 | | | | | |
| 101 4-Isopropyltoluene | 119 | | 10.599 | | | | | |
| 102 1,4-Dichlorobenzene | 146 | | 10.658 | | | | | |
| 103 1,2,3-Trimethylbenzene | 105 | | 10.706 | | | | | |
| 105 n-Butylbenzene | 91 | | 11.002 | | | | | |
| 106 1,2-Dichlorobenzene | 146 | | 11.026 | | | | | |
| 107 1,2-Dibromo-3-Chloropropane | 157 | | 11.797 | | | | | |
| 109 1,2,4-Trichlorobenzene | 180 | | 12.639 | | | | | |
| 110 Hexachlorobutadiene | 225 | | 12.805 | | | | | |
| 111 Naphthalene | 128 | | 12.888 | | | | | |
| 112 1,2,3-Trichlorobenzene | 180 | | 13.149 | | | | | |
| S 114 Xylenes, Total | 106 | | 16.530 | | | | | |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-10670-1

SDG No.:

Lab Sample ID: CCVIS 240-42171/2  Calibration Date: 04/30/2012 11:50

Instrument ID: A3UX16  Calib Start Date: 04/29/2012 15:41

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 04/29/2012 17:34

Lab File ID: UXM5270.D  Conc. Units: ug/L  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | Ave | 0.2829 | 0.2885 | 0.1000 | 10.2 | 10.0 | 2.0 | 20.0 |
| Chloromethane | Ave | 0.4613 | 0.4195 | 0.1000 | 9.10 | 10.0 | -9.0 | 20.0 |
| Vinyl chloride | Ave | 0.4246 | 0.4029 | 0.1000 | 9.49 | 10.0 | -5.1 | 20.0 |
| Bromomethane | Ave | 0.1684 | 0.1518 | 0.0500 | 9.02 | 10.0 | -9.8 | 20.0 |
| Chloroethane | Ave | 0.2371 | 0.2197 | 0.0500 | 9.27 | 10.0 | -7.3 | 20.0 |
| Trichlorofluoromethane | Ave | 0.3035 | 0.3119 | 0.1000 | 10.3 | 10.0 | 2.8 | 20.0 |
| Acrolein | Ave | 0.0489 | 0.0440 | | 89.9 | 100 | -10.1 | 20.0 |
| 1,1-Dichloroethene | Ave | 0.2446 | 0.2428 | 0.1000 | 9.93 | 10.0 | -0.7 | 20.0 |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | Ave | 0.1546 | 0.1669 | 0.0500 | 10.8 | 10.0 | 8.0 | 20.0 |
| Acetone | Lin1 | | 0.0864 | 0.0500 | 16.6 | 20.0 | -17.0 | 20.0 |
| Iodomethane | Ave | 0.3433 | 0.3500 | | 10.2 | 10.0 | 1.9 | 20.0 |
| Carbon disulfide | Ave | 0.7261 | 0.7265 | 0.1000 | 10.0 | 10.0 | 0.0 | 20.0 |
| Acetonitrile | Ave | 0.0346 | 0.0292 | | 84.2 | 100 | -15.8 | 20.0 |
| Methyl acetate | Ave | 0.2327 | 0.1967 | 0.1000 | 16.9 | 20.0 | -15.5 | 20.0 |
| Methylene Chloride | Lin1 | | 0.3004 | 0.1000 | 9.58 | 10.0 | -4.2 | 20.0 |
| tert-Butyl alcohol | Ave | 0.0189 | 0.0158 | | 167 | 200 | -16.6 | 20.0 |
| Acrylonitrile | Ave | 0.1114 | 0.0998 | | 17.9 | 20.0 | -10.5 | 20.0 |
| Methyl tert-butyl ether | Ave | 0.8402 | 0.7869 | 0.1000 | 9.36 | 10.0 | -6.4 | 20.0 |
| trans-1,2-Dichloroethene | Ave | 0.2873 | 0.2775 | 0.1000 | 9.66 | 10.0 | -3.4 | 20.0 |
| Hexane | Ave | 0.0529 | 0.0551 | | 10.4 | 10.0 | 4.1 | 20.0 |
| 1,1-Dichloroethane | Ave | 0.5691 | 0.5381 | 0.1000 | 9.45 | 10.0 | -5.5 | 20.0 |
| Vinyl acetate | Ave | 0.0505 | 0.0473 | | 9.37 | 10.0 | -6.3 | 20.0 |
| 2-Butanone | Ave | 0.1356 | 0.1228 | 0.0500 | 18.1 | 20.0 | -9.5 | 20.0 |
| cis-1,2-Dichloroethene | Ave | 0.3087 | 0.2944 | 0.1000 | 9.54 | 10.0 | -4.6 | 20.0 |
| 2,2-Dichloropropane | Ave | 0.2932 | 0.3012 | | 10.3 | 10.0 | 2.7 | 20.0 |
| Bromochloromethane | Ave | 0.1283 | 0.1246 | | 9.71 | 10.0 | -2.9 | 20.0 |
| Tetrahydrofuran | Ave | 0.0828 | 0.0713 | | 8.61 | 10.0 | -13.9 | 20.0 |
| Chloroform | Ave | 0.5296 | 0.5127 | 0.2000 | 9.68 | 10.0 | -3.2 | 20.0 |
| 1,1,1-Trichloroethane | Ave | 0.3678 | 0.3764 | 0.1000 | 10.2 | 10.0 | 2.3 | 20.0 |
| Cyclohexane | Ave | 0.4605 | 0.4777 | 0.1000 | 10.4 | 10.0 | 3.7 | 20.0 |
| 1,1-Dichloropropene | Ave | 0.4264 | 0.4061 | | 9.53 | 10.0 | -4.7 | 20.0 |
| Carbon tetrachloride | Ave | 0.2770 | 0.2871 | 0.1000 | 10.4 | 10.0 | 3.7 | 20.0 |
| 1,2-Dichloroethane | Ave | 0.4694 | 0.4390 | 0.1000 | 9.35 | 10.0 | -6.5 | 20.0 |
| Benzene | Ave | 1.251 | 1.173 | 0.5000 | 9.38 | 10.0 | -6.2 | 20.0 |
| Trichloroethene | Ave | 0.2698 | 0.2578 | 0.2000 | 9.56 | 10.0 | -4.4 | 20.0 |
| 1,2-Dichloropropane | Ave | 0.3083 | 0.2961 | 0.1000 | 9.61 | 10.0 | -3.9 | 20.0 |
| Methylcyclohexane | Ave | 0.3477 | 0.3809 | 0.1000 | 11.0 | 10.0 | 9.5 | 20.0 |
| Dibromomethane | Ave | 0.1606 | 0.1478 | | 9.20 | 10.0 | -8.0 | 20.0 |
| 1,4-Dioxane | Ave | 0.0024 | 0.0019 | | 403 | 500 | -19.5 | 20.0 |
| Bromodichloromethane | Ave | 0.3092 | 0.3153 | 0.1000 | 10.2 | 10.0 | 2.0 | 20.0 |

**Tetra Tech** **INTERNAL CORRESPONDENCE**

**TO:** **T. APANAVAGE** **DATE:** **June 26, 2012**

**FROM:** **MEGAN CARSON** **COPIES:** **DV FILE**

**SUBJECT:** **INORGANIC DATA VALIDATION- SELECT TOTAL AND DISSOLVED METALS**
**LOCKHEED-MSA**
**SDG 240-10670-1**

**SAMPLES:** 3/Waters/
MT-MW01S-042512 MT-MW03S-042512
MT-MW05S-042512

Overview

The sample set for Lockheed MSA, SDG 240-10670-1, consists of three (3) aqueous environmental samples and one trip blank. This SDG contained no field duplicate pairs.

All samples were analyzed for total and dissolved metals. The samples were collected by Tetra Tech on April 25th, 2012 and analyzed by TestAmerica. Metals analyses were conducted using method 6020A. Mercury analyses were conducted using method 7470A.

The findings offered in this report are based upon a general review of all available data. The data review was based on data completeness, holding times, MS tuning, initial and continuing calibration verification results, laboratory method / preparation blank results, ICP interference results, ICP internal standard recoveries, laboratory control sample recoveries, matrix spike recoveries, laboratory duplicate results, detection limits and analyte quantitation.

Areas of concern with respect to data quality are listed below.

Major Problems-

- None.

Minor Problems-

- The following contaminants were detected in preparation and calibration blanks at the following maximum concentrations:

| Analyte | Maximum Concentration | Action Level |
|---|---|---|
| Mercury (1) | 0.18 ug/L | 0.9 ug/L |
| Barium (2) | 1.21 ug/L | 6.05 ug/L |
| Copper (2) | 0.90 ug/L | 4.5 ug/L |
| Lead (2) | 0.35 ug/L | 1.75 ug/L |
| Silver (2) | 0.33 ug/L | 1.65 ug/L |
| Zinc (2) | 18.0 ug/L | 90 ug/L |
| Molybdenum (3) | 0.45 ug/L | 2.25 ug/L |
| Thallium (3) | 0.58 ug/L | 2.9 ug/L |
| Tungsten (3) | 0.68 ug/L | 3.4 ug/L |

(1) Maximum concentration found in a preparation blank affecting sample in 41887.
(2) Maximum concentration found in a preparation blank affecting sample in 41956.
(3) Maximum concentration found in a calibration blank affecting samples analyzed on 4/28/12.

An action level of 5X the maximum contaminant level has been used to evaluate sample data for blank contamination. Sample aliquot and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. Positive results less than the blank action level were qualified (B) for blank contamination.

- The CRDL standard analyzed on 4/29/12 had a percent recovery > 110% for arsenic, copper, nickel, silver, and thallium. All samples were affected. Positive arsenic and nickel results < 2X CRDL were qualified as either biased high (K) or estimated (J) due to conflicting directional bias. No other validation action was warranted as sample results were either > 2X CRDL or qualified for blank contamination.

Notes

Positive results greater than method detection limit (MDL) but less than the reporting limit (RL) were qualified as estimated (J).

Executive Summary

**Laboratory Performance:** Preparation and calibration blank contamination resulted on the qualification of sample results.

**Other Factors Affecting Data Quality:** None.

The data for these analyses were reviewed with reference to the Region III modifications to the National Functional Guidelines for Inorganic Data Validation (April 1993).

Tetra Tech
Megan Carson
Chemist/Data Validator

Tetra Tech
Joseph A. Samchuck
Quality Assurance Officer

Attachments:
Appendix A – Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
Appendix C – Support Documentation

# APPENDIX A

## QUALIFIED ANALYTICAL RESULTS

**Qualifier Codes:**

| | | |
|---|---|---|
| A | = | Lab Blank Contamination |
| B | = | Field Blank Contamination |
| C | = | Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.) |
| C01 | = | GC/MS Tuning Noncompliance |
| D | = | MS/MSD Recovery Noncompliance |
| E | = | LCS/LCSD Recovery Noncompliance |
| F | = | Lab Duplicate Imprecision |
| G | = | Field Duplicate Imprecision |
| H | = | Holding Time Exceedance |
| I | = | ICP Serial Dilution Noncompliance |
| J | = | ICP PDS Recovery Noncompliance; MSA's r < 0.995 |
| K | = | ICP Interference - includes ICS % R Noncompliance |
| L | = | Instrument Calibration Range Exceedance |
| M | = | Sample Preservation Noncompliance |
| N | = | Internal Standard Noncompliance |
| N01 | = | Internal Standard Recovery Noncompliance Dioxins |
| N02 | = | Recovery Standard Noncompliance Dioxins |
| N03 | = | Clean-up Standard Noncompliance Dioxins |
| O | = | Poor Instrument Performance (i.e., base-time drifting) |
| P | = | Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics) |
| Q | = | Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.) |
| R | = | Surrogates Recovery Noncompliance |
| S | = | Pesticide/PCB Resolution |
| T | = | % Breakdown Noncompliance for DDT and Endrin |
| U | = | RPD between columns/detectors >40% for positive results determined via GC/HPLC |
| V | = | Non-linear calibrations; correlation coefficient r < 0.995 |
| W | = | EMPC result |
| X | = | Signal to noise response drop |
| Y | = | Percent solids <30% |
| Z | = | Uncertainty at 2 sigma deviation is less than sample activity |
| Z1 | = | Tentatively Identified Compound considered presumptively present |
| Z2 | = | Tentatively Identified Compound column bleed |

| PROJ_NO: 04021 | NSAMPLE | MT-MW01S-042512 | | | MT-MW03S-042512 | | | MT-MW05S-042512 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-10670-1 | LAB_ID | 240-10670-3 | | | 240-10670-4 | | | 240-10670-2 | | |
| FRACTION: M | SAMP_DATE | 4/25/2012 | | | 4/25/2012 | | | 4/25/2012 | | |
| MEDIA: WATER | QC_TYPE | NM | | | NM | | | NM | | |
| | UNITS | UG/L | | | UG/L | | | UG/L | | |
| | PCT_SOLIDS | 0.0 | | | 0.0 | | | 0.0 | | |
| | DUP_OF | | | | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| ANTIMONY | | 0.13 | U | | 0.21 | J | P | 0.13 | U | |
| ARSENIC | | 4.7 | J | CP | 1.9 | J | CP | 1 | J | CP |
| BARIUM | | 110 | | | 26 | | | 20 | | |
| BERYLLIUM | | 0.59 | J | P | 0.41 | J | P | 36 | | |
| CADMIUM | | 0.13 | U | | 0.13 | U | | 0.85 | J | P |
| CHROMIUM | | 0.71 | U | | 5.3 | | | 0.71 | U | |
| COBALT | | 140 | | | 2.3 | | | 430 | | |
| COPPER | | 0.6 | B | A | 7.3 | | | 32 | | |
| LEAD | | 0.26 | B | A | 2.6 | | | 1.3 | B | A |
| MERCURY | | 0.12 | U | | 0.12 | U | | 0.12 | U | |
| MOLYBDENUM | | 0.57 | B | A | 1.7 | B | A | 0.093 | U | |
| NICKEL | | 67 | | | 5.9 | | | 870 | | |
| SELENIUM | | 0.57 | U | | 0.57 | U | | 0.74 | J | P |
| SILVER | | 0.08 | U | | 0.13 | B | A | 0.08 | U | |
| THALLIUM | | 0.14 | U | | 0.14 | U | | 0.34 | B | A |
| TUNGSTEN | | 0.37 | U | | 0.37 | U | | 0.37 | U | |
| VANADIUM | | 0.94 | J | P | 6 | J | P | 0.44 | U | |
| ZINC | | 12 | B | A | 640 | | | 2500 | | |

| PROJ_NO: 04021 | NSAMPLE | MT-MW01S-042512 | | | MT-MW03S-042512 | | | MT-MW05S-042512 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-10670-1 | LAB_ID | 240-10670-3 | | | 240-10670-4 | | | 240-10670-2 | | |
| FRACTION: MF | SAMP_DATE | 4/25/2012 | | | 4/25/2012 | | | 4/25/2012 | | |
| MEDIA: WATER | QC_TYPE | NM | | | NM | | | NM | | |
| | UNITS | UG/L | | | UG/L | | | UG/L | | |
| | PCT_SOLIDS | 0.0 | | | 0.0 | | | 0.0 | | |
| | DUP_OF | | | | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| ANTIMONY | | 0.13 | U | | 0.13 | U | | 0.13 | U | |
| ARSENIC | | 5 | K | C | 0.86 | J | CP | 1.2 | J | CP |
| BARIUM | | 120 | | | 20 | | | 20 | | |
| BERYLLIUM | | 0.36 | J | P | 0.2 | U | | 36 | | |
| CADMIUM | | 0.13 | U | | 0.13 | U | | 0.9 | J | P |
| CHROMIUM | | 0.71 | U | | 0.71 | U | | 0.71 | U | |
| COBALT | | 120 | | | 1.1 | | | 430 | | |
| COPPER | | 0.4 | B | A | 0.29 | U | | 35 | | |
| LEAD | | 0.18 | U | | 0.18 | U | | 1.3 | B | A |
| MERCURY | | 0.12 | U | | 0.12 | U | | 0.12 | U | |
| MOLYBDENUM | | 0.71 | B | A | 0.99 | B | A | 0.093 | U | |
| NICKEL | | 55 | | | 1.7 | J | CP | 870 | | |
| SELENIUM | | 0.57 | U | | 0.57 | U | | 0.57 | U | |
| SILVER | | 0.08 | U | | 0.08 | U | | 0.08 | U | |
| THALLIUM | | 0.14 | U | | 0.14 | U | | 0.32 | B | A |
| TUNGSTEN | | 0.37 | U | | 0.37 | U | | 0.37 | U | |
| VANADIUM | | 0.65 | J | P | 0.44 | U | | 0.44 | U | |
| ZINC | | 8.3 | B | A | 860 | | | 2500 | | |

## APPENDIX B

## RESULTS AS REPORTED BY THE LABORATORY

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: MT-MW01S-042512 Lab Sample ID: 240-10670-3

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG ID.:

Matrix: Water Date Sampled: 04/25/2012 13:35

Reporting Basis: WET Date Received: 04/26/2012 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 2.0 | 2.0 | 0.13 | ug/L | U | | 1 | 6020 |
| 7440-38-2 | Arsenic | 4.7 | 5.0 | 0.40 | ug/L | J | | 1 | 6020 |
| 7440-39-3 | Barium | 110 | 5.0 | 0.19 | ug/L | | B | 1 | 6020 |
| 7440-41-7 | Beryllium | 0.59 | 1.0 | 0.20 | ug/L | J | | 1 | 6020 |
| 7440-43-9 | Cadmium | 1.0 | 1.0 | 0.13 | ug/L | U | | 1 | 6020 |
| 7440-47-3 | Chromium | 2.0 | 2.0 | 0.71 | ug/L | U | | 1 | 6020 |
| 7440-48-4 | Cobalt | 140 | 1.0 | 0.058 | ug/L | | | 1 | 6020 |
| 7440-50-8 | Copper | 0.60 | 2.0 | 0.29 | ug/L | J | B | 1 | 6020 |
| 7439-92-1 | Lead | 0.26 | 1.0 | 0.18 | ug/L | J | B | 1 | 6020 |
| 7439-98-7 | Molybdenum | 0.57 | 10 | 0.093 | ug/L | J | | 1 | 6020 |
| 7440-02-0 | Nickel | 67 | 2.0 | 0.20 | ug/L | | | 1 | 6020 |
| 7782-49-2 | Selenium | 5.0 | 5.0 | 0.57 | ug/L | U | | 1 | 6020 |
| 7440-22-4 | Silver | 1.0 | 1.0 | 0.080 | ug/L | U | | 1 | 6020 |
| 7440-28-0 | Thallium | 2.0 | 2.0 | 0.14 | ug/L | U | | 1 | 6020 |
| 7440-33-7 | Tungsten | 10 | 10 | 0.37 | ug/L | U | | 1 | 6020 |
| 7440-62-2 | Vanadium | 0.94 | 20 | 0.44 | ug/L | J | | 1 | 6020 |
| 7440-66-6 | Zinc | 12 | 20 | 2.3 | ug/L | J | B | 1 | 6020 |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: MT-MW03S-042512 Lab Sample ID: 240-10670-4

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG ID.: .

Matrix: Water Date Sampled: 04/25/2012 14:50

Reporting Basis: WET Date Received: 04/26/2012 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 0.21 | 2.0 | 0.13 | ug/L | J | | 1 | 6020 |
| 7440-38-2 | Arsenic | 1.9 | 5.0 | 0.40 | ug/L | J | | 1 | 6020 |
| 7440-39-3 | Barium | 26 | 5.0 | 0.19 | ug/L | | B | 1 | 6020 |
| 7440-41-7 | Beryllium | 0.41 | 1.0 | 0.20 | ug/L | J | | 1 | 6020 |
| 7440-43-9 | Cadmium | 1.0 | 1.0 | 0.13 | ug/L | U | | 1 | 6020 |
| 7440-47-3 | Chromium | 5.3 | 2.0 | 0.71 | ug/L | | | 1 | 6020 |
| 7440-48-4 | Cobalt | 2.3 | 1.0 | 0.058 | ug/L | | | 1 | 6020 |
| 7440-50-8 | Copper | 7.3 | 2.0 | 0.29 | ug/L | | B | 1 | 6020 |
| 7439-92-1 | Lead | 2.6 | 1.0 | 0.18 | ug/L | | B | 1 | 6020 |
| 7439-98-7 | Molybdenum | 1.7 | 10 | 0.093 | ug/L | J | | 1 | 6020 |
| 7440-02-0 | Nickel | 5.9 | 2.0 | 0.20 | ug/L | | | 1 | 6020 |
| 7782-49-2 | Selenium | 5.0 | 5.0 | 0.57 | ug/L | U | | 1 | 6020 |
| 7440-22-4 | Silver | 0.13 | 1.0 | 0.080 | ug/L | J | B | 1 | 6020 |
| 7440-28-0 | Thallium | 2.0 | 2.0 | 0.14 | ug/L | U | | 1 | 6020 |
| 7440-33-7 | Tungsten | 10 | 10 | 0.37 | ug/L | U | | 1 | 6020 |
| 7440-62-2 | Vanadium | 6.0 | 20 | 0.44 | ug/L | J | | 1 | 6020 |
| 7440-66-6 | Zinc | 640 | 20 | 2.3 | ug/L | | B | 1 | 6020 |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: MT-MW05S-042512 Lab Sample ID: 240-10670-2

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG ID.:

Matrix: Water Date Sampled: 04/25/2012 10:51

Reporting Basis: WET Date Received: 04/26/2012 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 2.0 | 2.0 | 0.13 | ug/L | U | | 1 | 6020 |
| 7440-38-2 | Arsenic | 1.0 | 5.0 | 0.40 | ug/L | J | | 1 | 6020 |
| 7440-39-3 | Barium | 20 | 5.0 | 0.19 | ug/L | | B | 1 | 6020 |
| 7440-41-7 | Beryllium | 36 | 1.0 | 0.20 | ug/L | | | 1 | 6020 |
| 7440-43-9 | Cadmium | 0.85 | 1.0 | 0.13 | ug/L | J | | 1 | 6020 |
| 7440-47-3 | Chromium | 2.0 | 2.0 | 0.71 | ug/L | U | | 1 | 6020 |
| 7440-48-4 | Cobalt | 430 | 1.0 | 0.058 | ug/L | | | 1 | 6020 |
| 7440-50-8 | Copper | 32 | 2.0 | 0.29 | ug/L | | B | 1 | 6020 |
| 7439-92-1 | Lead | 1.3 | 1.0 | 0.18 | ug/L | | B | 1 | 6020 |
| 7439-98-7 | Molybdenum | 10 | 10 | 0.093 | ug/L | U | | 1 | 6020 |
| 7440-02-0 | Nickel | 870 | 2.0 | 0.20 | ug/L | | | 1 | 6020 |
| 7782-49-2 | Selenium | 0.74 | 5.0 | 0.57 | ug/L | J | | 1 | 6020 |
| 7440-22-4 | Silver | 1.0 | 1.0 | 0.080 | ug/L | U | | 1 | 6020 |
| 7440-28-0 | Thallium | 0.34 | 2.0 | 0.14 | ug/L | J | B | 1 | 6020 |
| 7440-33-7 | Tungsten | 10 | 10 | 0.37 | ug/L | U | | 1 | 6020 |
| 7440-62-2 | Vanadium | 20 | 20 | 0.44 | ug/L | U | | 1 | 6020 |
| 7440-66-6 | Zinc | 2500 | 20 | 2.3 | ug/L | | B | 1 | 6020 |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MT-MW01S-042512 Lab Sample ID: 240-10670-3

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG ID.:

Matrix: Water Date Sampled: 04/25/2012 13:35

Reporting Basis: WET Date Received: 04/26/2012 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 2.0 | 2.0 | 0.13 | ug/L | U | | 1 | 6020 |
| 7440-38-2 | Arsenic | 5.0 | 5.0 | 0.40 | ug/L | | | 1 | 6020 |
| 7440-39-3 | Barium | 120 | 5.0 | 0.19 | ug/L | | B | 1 | 6020 |
| 7440-41-7 | Beryllium | 0.36 | 1.0 | 0.20 | ug/L | J | | 1 | 6020 |
| 7440-43-9 | Cadmium | 1.0 | 1.0 | 0.13 | ug/L | U | | 1 | 6020 |
| 7440-47-3 | Chromium | 2.0 | 2.0 | 0.71 | ug/L | U | | 1 | 6020 |
| 7440-48-4 | Cobalt | 120 | 1.0 | 0.058 | ug/L | | | 1 | 6020 |
| 7440-50-8 | Copper | 0.40 | 2.0 | 0.29 | ug/L | J | B | 1 | 6020 |
| 7439-92-1 | Lead | 1.0 | 1.0 | 0.18 | ug/L | U | | 1 | 6020 |
| 7439-98-7 | Molybdenum | 0.71 | 10 | 0.093 | ug/L | J | | 1 | 6020 |
| 7440-02-0 | Nickel | 55 | 2.0 | 0.20 | ug/L | | | 1 | 6020 |
| 7782-49-2 | Selenium | 5.0 | 5.0 | 0.57 | ug/L | U | | 1 | 6020 |
| 7440-22-4 | Silver | 1.0 | 1.0 | 0.080 | ug/L | U | | 1 | 6020 |
| 7440-28-0 | Thallium | 2.0 | 2.0 | 0.14 | ug/L | U | | 1 | 6020 |
| 7440-62-2 | Vanadium | 0.65 | 20 | 0.44 | ug/L | J | | 1 | 6020 |
| 7440-66-6 | Zinc | 8.3 | 20 | 2.3 | ug/L | J | B | 1 | 6020 |
| 7440-33-7 | Tungsten | 10 | 10 | 0.37 | ug/L | U | | 1 | 6020 |
| 7439-97-6 | Mercury | 0.20 | 0.20 | 0.12 | ug/L | U | | 1 | 7470A |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MT-MW03S-042512 Lab Sample ID: 240-10670-4

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG ID.:

Matrix: Water Date Sampled: 04/25/2012 14:50

Reporting Basis: WET Date Received: 04/26/2012 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 2.0 | 2.0 | 0.13 | ug/L | U | | 1 | 6020 |
| 7440-38-2 | Arsenic | 0.86 | 5.0 | 0.40 | ug/L | J | | 1 | 6020 |
| 7440-39-3 | Barium | 20 | 5.0 | 0.19 | ug/L | | B | 1 | 6020 |
| 7440-41-7 | Beryllium | 1.0 | 1.0 | 0.20 | ug/L | U | | 1 | 6020 |
| 7440-43-9 | Cadmium | 1.0 | 1.0 | 0.13 | ug/L | U | | 1 | 6020 |
| 7440-47-3 | Chromium | 2.0 | 2.0 | 0.71 | ug/L | U | | 1 | 6020 |
| 7440-48-4 | Cobalt | 1.1 | 1.0 | 0.058 | ug/L | | | 1 | 6020 |
| 7440-50-8 | Copper | 2.0 | 2.0 | 0.29 | ug/L | U | | 1 | 6020 |
| 7439-92-1 | Lead | 1.0 | 1.0 | 0.18 | ug/L | U | | 1 | 6020 |
| 7439-98-7 | Molybdenum | 0.99 | 10 | 0.093 | ug/L | J | | 1 | 6020 |
| 7440-02-0 | Nickel | 1.7 | 2.0 | 0.20 | ug/L | J | | 1 | 6020 |
| 7782-49-2 | Selenium | 5.0 | 5.0 | 0.57 | ug/L | U | | 1 | 6020 |
| 7440-22-4 | Silver | 1.0 | 1.0 | 0.080 | ug/L | U | | 1 | 6020 |
| 7440-28-0 | Thallium | 2.0 | 2.0 | 0.14 | ug/L | U | | 1 | 6020 |
| 7440-62-2 | Vanadium | 20 | 20 | 0.44 | ug/L | U | | 1 | 6020 |
| 7440-66-6 | Zinc | 860 | 20 | 2.3 | ug/L | | B | 1 | 6020 |
| 7440-33-7 | Tungsten | 10 | 10 | 0.37 | ug/L | U | | 1 | 6020 |
| 7439-97-6 | Mercury | 0.20 | 0.20 | 0.12 | ug/L | U | | 1 | 7470A |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MT-MW05S-042512 Lab Sample ID: 240-10670-2

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG ID.:

Matrix: Water Date Sampled: 04/25/2012 10:51

Reporting Basis: WET Date Received: 04/26/2012 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 2.0 | 2.0 | 0.13 | ug/L | U | | 1 | 6020 |
| 7440-38-2 | Arsenic | 1.2 | 5.0 | 0.40 | ug/L | J | | 1 | 6020 |
| 7440-39-3 | Barium | 20 | 5.0 | 0.19 | ug/L | | B | 1 | 6020 |
| 7440-41-7 | Beryllium | 36 | 1.0 | 0.20 | ug/L | | | 1 | 6020 |
| 7440-43-9 | Cadmium | 0.90 | 1.0 | 0.13 | ug/L | J | | 1 | 6020 |
| 7440-47-3 | Chromium | 2.0 | 2.0 | 0.71 | ug/L | U | | 1 | 6020 |
| 7440-48-4 | Cobalt | 430 | 1.0 | 0.058 | ug/L | | | 1 | 6020 |
| 7440-50-8 | Copper | 35 | 2.0 | 0.29 | ug/L | | B | 1 | 6020 |
| 7439-92-1 | Lead | 1.3 | 1.0 | 0.18 | ug/L | | B | 1 | 6020 |
| 7439-98-7 | Molybdenum | 10 | 10 | 0.093 | ug/L | U | | 1 | 6020 |
| 7440-02-0 | Nickel | 870 | 2.0 | 0.20 | ug/L | | | 1 | 6020 |
| 7782-49-2 | Selenium | 5.0 | 5.0 | 0.57 | ug/L | U | | 1 | 6020 |
| 7440-22-4 | Silver | 1.0 | 1.0 | 0.080 | ug/L | U | | 1 | 6020 |
| 7440-28-0 | Thallium | 0.32 | 2.0 | 0.14 | ug/L | J | B | 1 | 6020 |
| 7440-62-2 | Vanadium | 20 | 20 | 0.44 | ug/L | U | | 1 | 6020 |
| 7440-66-6 | Zinc | 2500 | 20 | 2.3 | ug/L | | B | 1 | 6020 |
| 7440-33-7 | Tungsten | 10 | 10 | 0.37 | ug/L | U | | 1 | 6020 |
| 7439-97-6 | Mercury | 0.20 | 0.20 | 0.12 | ug/L | U | | 1 | 7470A |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MT-MW01S-042512 Lab Sample ID: 240-10670-3

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG ID.:

Matrix: Water Date Sampled: 04/25/2012 13:35

Reporting Basis: WET Date Received: 04/26/2012 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.20 | 0.20 | 0.12 | ug/L | U | | 1 | 7470A |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MT-MW03S-042512 Lab Sample ID: 240-10670-4

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG ID.:

Matrix: Water Date Sampled: 04/25/2012 14:50

Reporting Basis: WET Date Received: 04/26/2012 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.20 | 0.20 | 0.12 | ug/L | U | | 1 | 7470A |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MT-MW05S-042512 Lab Sample ID: 240-10670-2

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG ID.:

Matrix: Water Date Sampled: 04/25/2012 10:51

Reporting Basis: WET Date Received: 04/26/2012 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.20 | 0.20 | 0.12 | ug/L | U | | 1 | 7470A |

# APPENDIX C

## SUPPORT DOCUMENTATION

# Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

| Client Contact | | | | |
|---|---|---|---|---|
| Company Name: Tetra Tech INC. | Client Project Manager: Tony Aparavasse | Site Contact: Walt Payer | Lab Contact: Pat O'meara | COC No: |
| Address: 20251 Century Blvd. | Telephone: 301 528-3021 | Telephone: 301 991-3914 | Telephone: 330 497-9396 | 1 of 1 COCs |
| City/State/Zip: Germantown MD 20874 | Email: | Analysis Turnaround Time (in BUS days) | Analyses | For lab use only |
| Phone: 301 528-3021 | | TAT if different from below: ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day | | Walk-in client: ☐ Lab pickup: ☐ Lab sampling: ☐ Job/SDG No.: |
| Project Name: MSB-Ground Water Sampling | Method of Shipment/Carrier: Fed Ex | | | |
| Project Number: 112TC04021-02 | Shipping/Tracking No: | | | |
| PO# | | | | |

| Sample Identification | Sample Date | Sample Time | Matrix: Air | Aqueous | Sediment | Solid | Other: | Containers & Preservatives: H2SO4 | HNO3 | HCl | NaOH | ZnAc/NaOH | Unpres | Other: | Filtered Sample (Y/N) | Composite=C / Grab=G | VOCs | Total PPM | Diss PPM | 1,4 Dioxane | DRO | GRO | Perchlorate | Sample Specific Notes / Special Instructions: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TB-042512 | 4-25-12 | — | | X | | | | | | 2 | | | | | N | G | X | | | | | | | |
| MT-MW05s-042512 | | 1051 | | X | | | | | 2 | 5 | | | 5 | | | | X | X | X | X | X | X | X | |
| MT-MW01s-042512 | | 1335 | | X | | | | | 2 | 5 | | | 5 | | | | X | X | X | X | X | X | X | |
| MT-MW03s-042512 | | 1450 | | X | | | | | 2 | 5 | | | 5 | | | | X | X | X | X | X | X | X | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | | | | | |

Loc: 240
10670
US

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

| | Company | Date/Time | | Company | Date/Time |
|---|---|---|---|---|---|
| Relinquished by: Walt Payer | TT INC. | 4-25-12 / 1520 | Received by: Paul Hayford | TestAmerica | 4/25/12 / 1520 |
| Relinquished by: Paul Hayford | TestAmerica | 4/25/12 / 1725 | Received by: | Company: | Date/Time: |
| Relinquished by: | Company: | Date/Time: | Received in Laboratory by: | Company: TAWC | Date/Time: 4/26/12 9:15 |

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TAL-0018 (1008)

## CASE NARRATIVE

## Client: Tetra Tech, Inc formerly Tetra Tech NUS

## Project: MSA Groundwater Sampling

## Report Number: 240-10670-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

The Perchlorate analysis was performed at the TestAmerica West Sacramento Laboratory.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

**RECEIPT**

The samples were received on 04/26/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 0.4 and 0.5 C.

**VOLATILE ORGANIC COMPOUNDS (GC MS)**

Samples TB-042512 (240-10670-1), MT-MW05S-042512 (240-10670-2), MT-MW01S-042512 (240-10670-3) and MT-MW03S-042512 (240-10670-4) were analyzed for volatile organic compounds (GC MS) in accordance with EPA SW-846 Method 8260C. The samples were analyzed on 04/30/2012.

1,2,3-Trichlorobenzene was detected in method blank MB 240-42171/5 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

2-Chloroethyl vinyl ether failed the recovery criteria low for the MS/MSD of sample 240-10350-5 in batch 240-42171. tert-Butyl alcohol exceeded the rpd limit.

Refer to the QC report for details.

No other difficulties were encountered during the VOCs analyses. All other quality control parameters were within the acceptance limits.

**SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)**

Samples MT-MW05S-042512 (240-10670-2), MT-MW01S-042512 (240-10670-3) and MT-MW03S-042512 (240-10670-4) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 05/01/2012 and analyzed on 05/04/2012.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out and no corrective action is required.

2,4,6-Tribromophenol (Surr), 2-Fluorophenol (Surr) and Phenol-d5 (Surr) failed the surrogate recovery criteria low for MT-MW05S-042512 (240-10670-2). Refer to the QC report for details.

Acid surrogates were out of control limits in sample MT-MW05S-042512 (240-10670-2). Since only Base Neutral compounds were requested no corrective action was necessary.

No other difficulties were encountered during the SVOCs analyses. All other quality control parameters were within the acceptance limits.

**GASOLINE RANGE ORGANICS (GRO)**

Samples MT-MW05S-042512 (240-10670-2), MT-MW01S-042512 (240-10670-3) and MT-MW03S-042512 (240-10670-4) were analyzed for gasoline range organics (GRO) in accordance with EPA SW-846 Method 8015B - GRO. The samples were analyzed on 04/28/2012.

Total Petroleum Hydrocarbons (C6-C10) was detected in method blank MB 240-42055/7 at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

No other difficulties were encountered during the GRO analyses. All other quality control parameters were within the acceptance limits.

**DIESEL RANGE ORGANICS (DRO)**

Samples MT-MW05S-042512 (240-10670-2), MT-MW01S-042512 (240-10670-3) and MT-MW03S-042512 (240-10670-4) were analyzed for diesel range organics (DRO) in accordance with EPA SW-846 Method 8015B - DRO. The samples were prepared on 04/27/2012 and analyzed on 04/30/2012.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required.

Total Petroleum Hydrocarbons (C10-C32) was detected in method blank MB 240-41890/15-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

No other difficulties were encountered during the DRO analyses. All other quality control parameters were within the acceptance limits.

**DISSOLVED METALS (ICPMS)**

Samples MT-MW05S-042512 (240-10670-2), MT-MW01S-042512 (240-10670-3) and MT-MW03S-042512 (240-10670-4) were analyzed for dissolved metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 04/27/2012 and analyzed on 04/28/2012.

No difficulties were encountered during the metals analyses. All quality control parameters were within the acceptance limits.

**TOTAL RECOVERABLE METALS (ICPMS)**

Samples MT-MW05S-042512 (240-10670-2), MT-MW01S-042512 (240-10670-3) and MT-MW03S-042512 (240-10670-4) were analyzed for total recoverable metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 04/27/2012 and analyzed on 04/28/2012.

Several analytes were detected in method blank MB 240-41956/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

No other difficulties were encountered during the metals analyses. All other quality control parameters were within the acceptance limits.

**DISSOLVED MERCURY**

Samples MT-MW05S-042512 (240-10670-2), MT-MW01S-042512 (240-10670-3) and MT-MW03S-042512 (240-10670-4) were analyzed for dissolved mercury (CVAA) in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 04/27/2012 and analyzed on 04/28/2012.

No difficulties were encountered during the mercury analyses. All quality control parameters were within the acceptance limits.

**TOTAL MERCURY**

Samples MT-MW05S-042512 (240-10670-2), MT-MW01S-042512 (240-10670-3) and MT-MW03S-042512 (240-10670-4) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 04/27/2012 and analyzed on 04/28/2012.

Mercury was detected in method blank MB 240-41887/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

No other difficulties were encountered during the mercury analyses. All other quality control parameters were within the acceptance limits.

MT-MW05S-042512



240-10670-h-2-b, 4/28/2012 17:44:35 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

| Run | Time | 6Li | 9Be | 10B |
|---|---|---|---|---|
| | | ppb | ppb | ppb |
| x | | 73.789% | 36.460 | 30.850 |
| %RSD | | 4.570 | 2.497 | 1.207 |
| Run | Time | 23Na | 25Mg | 27Al |
| | | ppb | ppb | ppb |
| x | | T 60270.000 | 12510.000 | M 1341.000 |
| %RSD | | T 1.318 | 0.876 | M 0.534 |
| Run | Time | 35Cl | 39K | 43Ca |
| | | ppb | ppb | ppb |
| x | | T 0.000 | T 6654.000 | 9271.000 |
| %RSD | | T 0.000 | T 0.526 | 0.231 |
| Run | Time | 45Sc | 45Sc | 47Ti |
| | | ppb | ppb | ppb |
| x | | T 72.082% | 74.364% | 0.358 |
| %RSD | | T 0.996 | 1.101 | 40.800 |
| Run | Time | 51V | 52Cr | 53Cr,O |
| | | ppb | ppb | ppb |
| x | | -0.043 | -0.189 | 0.575 |
| %RSD | | 332.400 | 5.402 | 58.540 |
| Run | Time | 55Mn | 56Fe | 59Co |
| | | ppb | ppb | ppb |
| x | | TM 5930.000 | 394.100 | M 429.900 |
| %RSD | | TM 0.833 | 0.746 | M 0.703 |
| Run | Time | 60Ni | 65Cu | 66Zn |
| | | ppb | ppb | ppb |
| x | | M 871.400 | 32.210 | M 2470.000 |
| %RSD | | M 0.782 | 1.084 | M 0.860 |
| Run | Time | 72Ge | 75As | 77Ar,Cl |
| | | ppb | ppb | ppb |
| x | | 73.139% | 1.038 | 0.346 |
| %RSD | | 0.675 | 6.202 | 11.450 |
| Run | Time | 78Se | 88Sr | 95Mo |
| | | ppb | ppb | ppb |
| x | | 0.739 | 68.850 | -0.096 |
| %RSD | | 31.840 | 1.203 | 23.110 |
| Run | Time | 105Pd | 107Ag | 108Mo,O |
| | | ppb | ppb | ppb |
| x | | 0.000 | 0.002 | -3.729 |
| %RSD | | 0.000 | 53.560 | 137.700 |
| Run | Time | 111Cd | 115In | 118Sn |
| | | ppb | ppb | ppb |
| x | | 0.849 | 73.875% | 0.070 |
| %RSD | | 8.657 | 0.540 | 18.800 |
| Run | Time | 121Sb | 137Ba | 159Tb |
| | | ppb | ppb | ppb |
| x | | -0.002 | 20.390 | 0.000 |
| %RSD | | 847.200 | 1.664 | 0.000 |
| Run | Time | 165Ho | 182W | 205Tl |
| | | ppb | ppb | ppb |
| x | | 78.565% | -0.226 | 0.339 |
| %RSD | | 0.912 | 0.871 | 0.991 |
| Run | Time | 208Pb | 209Bi | |
| | | ppb | ppb | |
| x | | 1.317 | 0.000 | |
| %RSD | | 0.426 | 0.000 | |

2470ug/L reported as 2500ug/L

**TestAmerica North Canton Sample Receipt Form/Narrative** Login # : 10640

Client Tetra Tech Site Name _____ By: _____ (Signature)

Cooler Received on 4/26/12 Opened on 4/26/12

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

TestAmerica Cooler # _____ Foam Box Client Cooler Box Other _____

Packing material used: ~~Bubble Wrap~~ Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

| | | | |
|---|---|---|---|
| IR GUN# 1 | (CF -2°C) | Observed Sample Temp._____°C | Corrected Sample Temp._____°C |
| IR GUN# 4G | (CF -1°C) | Observed Sample Temp._____°C | Corrected Sample Temp._____°C |
| IR GUN# 5G | (CF -1°C) | Observed Sample Temp._____°C | Corrected Sample Temp._____°C |
| IR GUN# 6Y | (CF -2°C) | Observed Sample Temp._____°C | Corrected Sample Temp._____°C |

~~Multiple~~ on Back

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 2 — Yes No
   -Were custody seals on the outside of the cooler(s) signed & dated? — Yes No NA
   -Were custody seals on the bottle(s)? — Yes No
3. Shippers' packing slip attached to the cooler(s)? — Yes No
4. Did custody papers accompany the sample(s)? — Yes No
5. Were the custody papers relinquished & signed in the appropriate place? — Yes No
6. Did all bottles arrive in good condition (Unbroken)? — Yes No
7. Could all bottle labels be reconciled with the COC? — Yes No
8. Were correct bottle(s) used for the test(s) indicated? — Yes No
9. Sufficient quantity received to perform indicated analyses? — Yes No
10. Were sample(s) at the correct pH upon receipt? — Yes No NA
11. Were VOAs on the COC? — Yes No
12. Were air bubbles >6 mm in any VOA vials? — Yes No NA
13. Was a trip blank present in the cooler(s)? — Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

**14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES**

**15. SAMPLE CONDITION**

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

## 16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). Nitric Acid Lot# 110410-HNO3; Sulfuric Acid Lot# 041911-H2SO4; Sodium Hydroxide Lot# 121809 - NaOH; Hydrochloric Acid Lot# 041911-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-(CH3COO)2ZN/NaOH. What time was preservative added to sample(s)? _____

| Client ID | pH | Date | Initials |
|---|---|---|---|
| MW05S | <2 | 11/26/12 | JM |
| MW01S | <2 | | |
| MW02S | <2 | | |

| Cooler # | Observed Sample Temp. °C | Corrected Sample Temp. °C | IR # | Coolant |
|---|---|---|---|---|
| Client Cooler | 1.4 | 0.4 | SG | Ice |
| | 1.5 | 0.5 | | |

# Login Sample Receipt Checklist

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-10670-1

**Login Number: 10670**

**List Source: TestAmerica Canton**

**List Number: 1**

**Creator: Sutek, Nick**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the sample IDs on the containers and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

# HOLDTIME

**SDG** 240-10670-1

| SORT | UNITS | NSAMPLE | LAB_ID | QC_TYPE | SAMP_DATE | EXTR_DATE | ANAL_DATE | SMP_EXTR | EXTR_ANL | SMP_ANL |
|---|---|---|---|---|---|---|---|---|---|---|
| HG | UG/L | MT-MW01S-042512 | 240-10670-3 | NM | 4/25/2012 | 4/27/2012 | 4/28/2012 | 2 | 1 | 3 |
| HG | UG/L | MT-MW03S-042512 | 240-10670-4 | NM | 4/25/2012 | 4/27/2012 | 4/28/2012 | 2 | 1 | 3 |
| HG | UG/L | MT-MW05S-042512 | 240-10670-2 | NM | 4/25/2012 | 4/27/2012 | 4/28/2012 | 2 | 1 | 3 |
| M | UG/L | MT-MW05S-042512 | 240-10670-2 | NM | 4/25/2012 | 4/27/2012 | 4/28/2012 | 2 | 1 | 3 |
| M | UG/L | MT-MW01S-042512 | 240-10670-3 | NM | 4/25/2012 | 4/27/2012 | 4/28/2012 | 2 | 1 | 3 |
| M | UG/L | MT-MW03S-042512 | 240-10670-4 | NM | 4/25/2012 | 4/27/2012 | 4/28/2012 | 2 | 1 | 3 |
| HGF | UG/L | MT-MW05S-042512 | 240-10670-2 | NM | 4/25/2012 | 4/27/2012 | 4/28/2012 | 2 | 1 | 3 |
| HGF | UG/L | MT-MW01S-042512 | 240-10670-3 | NM | 4/25/2012 | 4/27/2012 | 4/28/2012 | 2 | 1 | 3 |
| HGF | UG/L | MT-MW03S-042512 | 240-10670-4 | NM | 4/25/2012 | 4/27/2012 | 4/28/2012 | 2 | 1 | 3 |
| MF | UG/L | MT-MW01S-042512 | 240-10670-3 | NM | 4/25/2012 | 4/27/2012 | 4/28/2012 | 2 | 1 | 3 |
| MF | UG/L | MT-MW05S-042512 | 240-10670-2 | NM | 4/25/2012 | 4/27/2012 | 4/28/2012 | 2 | 1 | 3 |
| MF | UG/L | MT-MW03S-042512 | 240-10670-4 | NM | 4/25/2012 | 4/27/2012 | 4/28/2012 | 2 | 1 | 3 |
| PCL | UG/L | MT-MW05S-042512 | 240-10670-2 | NM | 4/25/2012 | 5/7/2012 | 5/15/2012 | 12 | 8 | 20 |
| PCL | UG/L | MT-MW03S-042512 | 240-10670-4 | NM | 4/25/2012 | 5/7/2012 | 5/15/2012 | 12 | 8 | 20 |
| PCL | UG/L | MT-MW01S-042512 | 240-10670-3 | NM | 4/25/2012 | 5/7/2012 | 5/15/2012 | 12 | 8 | 20 |

| SORT | UNITS | NSAMPLE | LAB_ID | QC_TYPE | SAMP_DATE | EXTR_DATE | ANAL_DATE | SMP_EXTR | EXTR_ANL | SMP_ANL |
|---|---|---|---|---|---|---|---|---|---|---|
| OS | UG/L | MT-MW01S-042512 | 240-10670-3 | NM | 4/25/2012 | 5/1/2012 | 5/4/2012 | 6 | 3 | 9 |
| OS | UG/L | MT-MW05S-042512 | 240-10670-2 | NM | 4/25/2012 | 5/1/2012 | 5/4/2012 | 6 | 3 | 9 |
| OS | UG/L | MT-MW03S-042512 | 240-10670-4 | NM | 4/25/2012 | 5/1/2012 | 5/4/2012 | 6 | 3 | 9 |
| OV | UG/L | TB-042512 | 240-10670-1 | NM | 4/25/2012 | 4/30/2012 | 4/30/2012 | 5 | 0 | 5 |
| OV | UG/L | MT-MW01S-042512 | 240-10670-3 | NM | 4/25/2012 | 4/30/2012 | 4/30/2012 | 5 | 0 | 5 |
| OV | UG/L | MT-MW03S-042512 | 240-10670-4 | NM | 4/25/2012 | 4/30/2012 | 4/30/2012 | 5 | 0 | 5 |
| OV | UG/L | MT-MW05S-042512 | 240-10670-2 | NM | 4/25/2012 | 4/30/2012 | 4/30/2012 | 5 | 0 | 5 |
| OV | UG/L | TB-042512 | 240-10670-1 | TB | 4/25/2012 | 4/30/2012 | 4/30/2012 | 5 | 0 | 5 |
| DRO | UG/L | MT-MW01S-042512 | 240-10670-3 | NM | 4/25/2012 | 4/27/2012 | 4/30/2012 | 2 | 3 | 5 |
| DRO | UG/L | MT-MW05S-042512 | 240-10670-2 | NM | 4/25/2012 | 4/27/2012 | 4/30/2012 | 2 | 3 | 5 |
| DRO | UG/L | MT-MW03S-042512 | 240-10670-4 | NM | 4/25/2012 | 4/27/2012 | 4/30/2012 | 2 | 3 | 5 |
| GRO | UG/L | MT-MW05S-042512 | 240-10670-2 | NM | 4/25/2012 | 4/28/2012 | 4/28/2012 | 3 | 0 | 3 |
| GRO | UG/L | MT-MW03S-042512 | 240-10670-4 | NM | 4/25/2012 | 4/28/2012 | 4/28/2012 | 3 | 0 | 3 |
| GRO | UG/L | MT-MW01S-042512 | 240-10670-3 | NM | 4/25/2012 | 4/28/2012 | 4/28/2012 | 3 | 0 | 3 |

9-IN
DETECTION LIMITS
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton  Job Number: 240-10670-1

SDG Number:

Matrix: Water  Instrument ID: I8

Method: 6020  MDL Date: 02/09/2010 15:53

Prep Method: 3005A

| Analyte | Wavelength/ Mass | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| Antimony | 121.00 | 2 | 0.13 |
| Arsenic | 75.00 | 5 | 0.4 |
| Barium | 137.00 | 5 | 0.19 |
| Beryllium | 9.00 | 1 | 0.2 |
| Cadmium | 111.00 | 1 | 0.13 |
| Chromium | 52.00 | 2 | 0.71 |
| Cobalt | 59.00 | 1 | 0.058 |
| Copper | 65.00 | 2 | 0.29 |
| Lead | 208.00 | 1 | 0.18 |
| Molybdenum | 95.00 | 10 | 0.093 |
| Nickel | 60.00 | 2 | 0.2 |
| Selenium | 78.00 | 5 | 0.57 |
| Silver | 107.00 | 1 | 0.08 |
| Thallium | 205.00 | 2 | 0.14 |
| Tungsten | 182.00 | 10 | 0.37 |
| Vanadium | 51.00 | 20 | 0.44 |
| Zinc | 66.00 | 20 | 2.3 |

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job Number: 240-10670-1

SDG Number:

Matrix: Water Instrument ID: I8

Method: 6020 XMDL Date: 02/09/2010 15:53

| Analyte | Wavelength/ Mass | XRL (ug/L) | XMDL (ug/L) |
|---|---|---|---|
| Antimony | 121.00 | 2 | 0.13 |
| Arsenic | 75.00 | 5 | 0.4 |
| Barium | 137.00 | 5 | 0.19 |
| Beryllium | 9.00 | 1 | 0.2 |
| Cadmium | 111.00 | 1 | 0.13 |
| Chromium | 52.00 | 2 | 0.71 |
| Cobalt | 59.00 | 1 | 0.058 |
| Copper | 65.00 | 2 | 0.29 |
| Lead | 208.00 | 1 | 0.18 |
| Molybdenum | 95.00 | 10 | 0.093 |
| Nickel | 60.00 | 2 | 0.2 |
| Selenium | 78.00 | 5 | 0.57 |
| Silver | 107.00 | 1 | 0.08 |
| Thallium | 205.00 | 2 | 0.14 |
| Tungsten | 182.00 | 10 | 0.37 |
| Vanadium | 51.00 | 20 | 0.44 |
| Zinc | 66.00 | 20 | 2.3 |

9-IN
DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Canton  Job Number: 240-10670-1

SDG Number:

Matrix: Water  Instrument ID: I8

Method: 6020  MDL Date: 02/09/2010 15:53

Prep Method: 3005A

| Analyte | Wavelength/ Mass | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| Antimony | 121.00 | 2 | 0.13 |
| Arsenic | 75.00 | 5 | 0.4 |
| Barium | 137.00 | 5 | 0.19 |
| Beryllium | 9.00 | 1 | 0.2 |
| Cadmium | 111.00 | 1 | 0.13 |
| Chromium | 52.00 | 2 | 0.71 |
| Cobalt | 59.00 | 1 | 0.058 |
| Copper | 65.00 | 2 | 0.29 |
| Lead | 208.00 | 1 | 0.18 |
| Molybdenum | 95.00 | 10 | 0.093 |
| Nickel | 60.00 | 2 | 0.2 |
| Selenium | 78.00 | 5 | 0.57 |
| Silver | 107.00 | 1 | 0.08 |
| Thallium | 205.00 | 2 | 0.14 |
| Tungsten | 182.00 | 10 | 0.37 |
| Vanadium | 51.00 | 20 | 0.44 |
| Zinc | 66.00 | 20 | 2.3 |

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Canton Job Number: 240-10670-1

SDG Number:

Matrix: Water Instrument ID: I8

Method: 6020 XMDL Date: 02/09/2010 15:53

| Analyte | Wavelength/ Mass | XRL (ug/L) | XMDL (ug/L) |
|---|---|---|---|
| Antimony | 121.00 | 2 | 0.13 |
| Arsenic | 75.00 | 5 | 0.4 |
| Barium | 137.00 | 5 | 0.19 |
| Beryllium | 9.00 | 1 | 0.2 |
| Cadmium | 111.00 | 1 | 0.13 |
| Chromium | 52.00 | 2 | 0.71 |
| Cobalt | 59.00 | 1 | 0.058 |
| Copper | 65.00 | 2 | 0.29 |
| Lead | 208.00 | 1 | 0.18 |
| Molybdenum | 95.00 | 10 | 0.093 |
| Nickel | 60.00 | 2 | 0.2 |
| Selenium | 78.00 | 5 | 0.57 |
| Silver | 107.00 | 1 | 0.08 |
| Thallium | 205.00 | 2 | 0.14 |
| Tungsten | 182.00 | 10 | 0.37 |
| Vanadium | 51.00 | 20 | 0.44 |
| Zinc | 66.00 | 20 | 2.3 |

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Canton  Job Number: 240-10670-1

SDG Number:

Matrix: Water  Instrument ID: H4

Method: 7470A  MDL Date: 02/08/2010 16:06

Prep Method: 7470A

| Analyte | Wavelength/ Mass | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| Mercury | 253.7 | 0.2 | 0.12 |

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Canton  Job Number: 240-10670-1

SDG Number:

Matrix: Water  Instrument ID: H4

Method: 7470A  XMDL Date: 02/08/2010 16:06

| Analyte | Wavelength/ Mass | XRL (ug/L) | XMDL (ug/L) |
|---|---|---|---|
| Mercury | 253.7 | 0.2 | 0.12 |

9-IN
DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Canton  Job Number: 240-10670-1

SDG Number:

Matrix: Water  Instrument ID: H4

Method: 7470A  MDL Date: 02/08/2010 16:06

Prep Method: 7470A

| Analyte | Wavelength/ Mass | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| Mercury | 253.7 | 0.2 | 0.12 |

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Canton Job Number: 240-10670-1

SDG Number:

Matrix: Water Instrument ID: H4

Method: 7470A XMDL Date: 02/08/2010 16:06

| Analyte | Wavelength/ Mass | XRL (ug/L) | XMDL (ug/L) |
|---|---|---|---|
| Mercury | 253.7 | 0.2 | 0.12 |

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Canton Job No: 240-10670-1

SDG No.:

Instrument ID: I8 Date: 07/05/2011 09:44

| Analyte | Integ. Time (Sec.) | Concentration (ppb) | Method |
|---|---|---|---|
| Antimony | | 1000 | 6020 |
| Arsenic | | 10000 | 6020 |
| Barium | | 10000 | 6020 |
| Beryllium | | 10000 | 6020 |
| Cadmium | | 10000 | 6020 |
| Chromium | | 10000 | 6020 |
| Cobalt | | 10000 | 6020 |
| Copper | | 10000 | 6020 |
| Lead | | 10000 | 6020 |
| Molybdenum | | 2000 | 6020 |
| Nickel | | 10000 | 6020 |
| Selenium | | 10000 | 6020 |
| Silver | | 1000 | 6020 |
| Thallium | | 10000 | 6020 |
| Vanadium | | 10000 | 6020 |
| Tungsten | | 2000 | 6020 |
| Zinc | | 10000 | 6020 |

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Canton Job No: 240-10670-1

SDG No.:

Instrument ID: H4 Date: 04/01/2011 10:50

| Analyte | Integ. Time (Sec.) | Concentration (ppb) | Method |
|---|---|---|---|
| Mercury | | 10 | 7470A |

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Prep Method: 7470A

| Lab Sample ID | Preparation Date | Prep Batch | Initial Weight | Initial Volume (mL) | Final Volume (mL) |
|---|---|---|---|---|---|
| MB 240-41887/1-A | 04/27/2012 12:40 | 41887 | | 100 | 100 |
| LCS 240-41887/2-A | 04/27/2012 12:40 | 41887 | | 100 | 100 |
| 240-10552-L-17-B MS | 04/27/2012 12:40 | 41887 | | 100 | 100 |
| 240-10552-L-17-C MSD | 04/27/2012 12:40 | 41887 | | 100 | 100 |
| 240-10670-2 | 04/27/2012 12:40 | 41887 | | 100 | 100 |
| 240-10670-2 | 04/27/2012 12:40 | 41887 | | 100 | 100 |
| 240-10670-3 | 04/27/2012 12:40 | 41887 | | 100 | 100 |
| 240-10670-3 | 04/27/2012 12:40 | 41887 | | 100 | 100 |
| 240-10670-4 | 04/27/2012 12:40 | 41887 | | 100 | 100 |
| 240-10670-4 | 04/27/2012 12:40 | 41887 | | 100 | 100 |

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 240-41887/1-A

Instrument Code: H4 Batch No.: 42155

| CAS No. | Analyte | Concentration | C | Q | Method |
|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.179 | J | | 7470A |

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: _____ Lab ID: 240-10552-L-17-B MS

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.: _____

Matrix: Water Concentration Units: ug/L

% Solids: _____

| Analyte | SSR | C | Sample Result (SR) | C | Spike Added (SA) | %R | Control Limit %R | Q | Method |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.938 | | 0.20 | U | 1.00 | 94 | 69-134 | | 7470A |

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: _____ Lab ID: 240-10552-L-17-C MSD

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.: _____

Matrix: Water Concentration Units: ug/L

% Solids: _____

| Analyte | (SDR) C | Spike Added (SA) | %R | Control Limit %R | RPD | RPD Limit | Q | Method |
|---|---|---|---|---|---|---|---|---|
| Mercury | 0.924 | 1.00 | 92 | 69-134 | 2 | 20 | | 7470A |

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VD - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 240-41887/2-A

Lab Name: TestAmerica Canton  Job No.: 240-10670-1

Sample Matrix: Water  LCS Source: MTHGICVW_00284

| Analyte | Water(ug/L) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | True | Found | C | %R | Limits | | Q | Method |
| Mercury | 5.00 | 4.54 | | 91 | 81 | 123 | | 7470A |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Prep Method: 3005A

| Lab Sample ID | Preparation Date | Prep Batch | Initial Weight | Initial Volume (mL) | Final Volume (mL) |
|---|---|---|---|---|---|
| MB 240-41956/1-A | 04/27/2012 13:42 | 41956 | | 50 | 50 |
| LCS 240-41956/3-A | 04/27/2012 13:42 | 41956 | | 50 | 50 |
| 240-10623-K-4-E MS | 04/27/2012 13:42 | 41956 | | 50 | 50 |
| 240-10623-K-4-F MSD | 04/27/2012 13:42 | 41956 | | 50 | 50 |
| 240-10670-2 | 04/27/2012 13:42 | 41956 | | 50 | 50 |
| 240-10670-2 | 04/27/2012 13:42 | 41956 | | 50 | 50 |
| 240-10670-3 | 04/27/2012 13:42 | 41956 | | 50 | 50 |
| 240-10670-3 | 04/27/2012 13:42 | 41956 | | 50 | 50 |
| 240-10670-4 | 04/27/2012 13:42 | 41956 | | 50 | 50 |
| 240-10670-4 | 04/27/2012 13:42 | 41956 | | 50 | 50 |

3-IN
METHOD BLANK
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton  Job No.: 240-10670-1

SDG No.:

Concentration Units: ug/L  Lab Sample ID: MB 240-41956/1-A

Instrument Code: I8  Batch No.: 42093

| CAS No. | Analyte | Concentration | C | Q | Method |
|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 2.0 | U | | 6020 |
| 7440-38-2 | Arsenic | 5.0 | U | | 6020 |
| 7440-39-3 | Barium | 1.21 | J | | 6020 |
| 7440-41-7 | Beryllium | 1.0 | U | | 6020 |
| 7440-43-9 | Cadmium | 1.0 | U | | 6020 |
| 7440-47-3 | Chromium | 2.0 | U | | 6020 |
| 7440-48-4 | Cobalt | 1.0 | U | | 6020 |
| 7440-50-8 | Copper | 0.904 | J | | 6020 |
| 7439-92-1 | Lead | 0.350 | J | | 6020 |
| 7439-98-7 | Molybdenum | 10 | U | | 6020 |
| 7440-02-0 | Nickel | 2.0 | U | | 6020 |
| 7782-49-2 | Selenium | 5.0 | U | | 6020 |
| 7440-22-4 | Silver | 0.336 | J | | 6020 |
| 7440-28-0 | Thallium | 0.161 | J | | 6020 |
| 7440-62-2 | Vanadium | 20 | U | | 6020 |
| 7440-33-7 | Tungsten | 10 | U | | 6020 |
| 7440-66-6 | Zinc | 18.0 | J | | 6020 |

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS - TOTAL RECOVERABLE

Client ID: _____ Lab ID: 240-10623-K-4-E MS

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.: _____

Matrix: Water Concentration Units: ug/L

% Solids: _____

| Analyte | SSR | C | Sample Result (SR) | C | Spike Added (SA) | %R | Control Limit %R | Q | Method |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 104 | | 0.18 | J | 100 | 104 | 44-153 | | 6020 |
| Arsenic | 1130 | | 1.9 | J | 1000 | 112 | 82-123 | | 6020 |
| Barium | 1170 | | 70 | | 1000 | 110 | 45-144 | | 6020 |
| Beryllium | 1040 | | 1.0 | U | 1000 | 104 | 77-124 | | 6020 |
| Cadmium | 1060 | | 0.14 | J | 1000 | 106 | 78-117 | | 6020 |
| Chromium | 1080 | | 0.94 | J | 1000 | 108 | 72-110 | | 6020 |
| Cobalt | 1080 | | 0.49 | J | 1000 | 108 | 67-114 | | 6020 |
| Copper | 1060 | | 1.1 | J | 1000 | 106 | 60-123 | | 6020 |
| Lead | 1130 | | 0.23 | J | 1000 | 113 | 73-115 | | 6020 |
| Molybdenum | 110 | | 0.68 | J | 100 | 110 | 80-110 | | 6020 |
| Nickel | 1070 | | 0.92 | J | 1000 | 107 | 72-111 | | 6020 |
| Selenium | 1130 | | 5.0 | U | 1000 | 113 | 72-148 | | 6020 |
| Silver | 104 | | 1.0 | U | 100 | 104 | 10-139 | | 6020 |
| Thallium | 290 | | 0.86 | J | 250 | 115 | 69-117 | | 6020 |
| Vanadium | 1080 | | 2.9 | J | 1000 | 108 | 70-112 | | 6020 |
| Tungsten | 105 | | 0.66 | J | 100 | 104 | 43-133 | | 6020 |
| Zinc | 1060 | | 20 | U | 1000 | 106 | 49-156 | | 6020 |

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS - TOTAL RECOVERABLE

Client ID: _____ Lab ID: 240-10623-K-4-F MSD

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.: _____

Matrix: Water Concentration Units: ug/L

% Solids: _____

| Analyte | (SDR) C | Spike Added (SA) | %R | Control Limit %R | RPD | RPD Limit | Q | Method |
|---|---|---|---|---|---|---|---|---|
| Antimony | 102 | 100 | 102 | 44-153 | 2 | 20 | | 6020 |
| Arsenic | 1120 | 1000 | 112 | 82-123 | 1 | 20 | | 6020 |
| Barium | 1150 | 1000 | 108 | 45-144 | 2 | 20 | | 6020 |
| Beryllium | 1030 | 1000 | 103 | 77-124 | 1 | 20 | | 6020 |
| Cadmium | 1050 | 1000 | 104 | 78-117 | 2 | 20 | | 6020 |
| Chromium | 1070 | 1000 | 107 | 72-110 | 2 | 20 | | 6020 |
| Cobalt | 1060 | 1000 | 106 | 67-114 | 1 | 20 | | 6020 |
| Copper | 1040 | 1000 | 104 | 60-123 | 1 | 20 | | 6020 |
| Lead | 1120 | 1000 | 112 | 73-115 | 1 | 20 | | 6020 |
| Molybdenum | 110 | 100 | 110 | 80-110 | 0 | 20 | | 6020 |
| Nickel | 1060 | 1000 | 105 | 72-111 | 2 | 20 | | 6020 |
| Selenium | 1120 | 1000 | 112 | 72-148 | 1 | 20 | | 6020 |
| Silver | 103 | 100 | 103 | 10-139 | 1 | 20 | | 6020 |
| Thallium | 287 | 250 | 115 | 69-117 | 1 | 20 | | 6020 |
| Vanadium | 1070 | 1000 | 107 | 70-112 | 1 | 20 | | 6020 |
| Tungsten | 104 | 100 | 103 | 43-133 | 1 | 20 | | 6020 |
| Zinc | 1040 | 1000 | 104 | 49-156 | 1 | 20 | | 6020 |

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VD - IN

7A-IN
LAB CONTROL SAMPLE
METALS - TOTAL RECOVERABLE

Lab ID: LCS 240-41956/3-A

Lab Name: TestAmerica Canton  Job No.: 240-10670-1

Sample Matrix: Water  LCS Source: MTICPMSB_00006

| Analyte | Water(ug/L) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | True | Found | C | %R | Limits | | Q | Method |
| Antimony | 100 | 102 | | 102 | 80 | 120 | | 6020 |
| Arsenic | 1000 | 1050 | | 105 | 80 | 120 | | 6020 |
| Barium | 1000 | 1060 | | 106 | 80 | 120 | | 6020 |
| Beryllium | 1000 | 1140 | | 114 | 80 | 120 | | 6020 |
| Cadmium | 1000 | 1060 | | 106 | 80 | 120 | | 6020 |
| Chromium | 1000 | 1060 | | 106 | 80 | 120 | | 6020 |
| Cobalt | 1000 | 1060 | | 106 | 80 | 120 | | 6020 |
| Copper | 1000 | 1110 | | 111 | 80 | 120 | | 6020 |
| Lead | 1000 | 1170 | | 117 | 80 | 120 | | 6020 |
| Molybdenum | 100 | 102 | | 102 | 80 | 120 | | 6020 |
| Nickel | 1000 | 1080 | | 108 | 80 | 120 | | 6020 |
| Selenium | 1000 | 1090 | | 109 | 80 | 120 | | 6020 |
| Silver | 100 | 109 | | 109 | 80 | 120 | | 6020 |
| Thallium | 250 | 290 | | 116 | 80 | 120 | | 6020 |
| Vanadium | 1000 | 1030 | | 103 | 80 | 120 | | 6020 |
| Tungsten | 100 | 99.5 | | 100 | 80 | 120 | | 6020 |
| Zinc | 1000 | 1110 | | 111 | 80 | 120 | | 6020 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS - TOTAL RECOVERABLE

Lab ID: 240-10623-K-4-B SD ^5

SDG No:

Lab Name: TestAmerica Canton Job No: 240-10670-1

Matrix: Water Concentration Units: ug/L

| Analyte | Initial Sample Result (I) | C | Serial Dilution Result (S) | C | % Difference | Q | Method |
|---|---|---|---|---|---|---|---|
| Antimony | 0.18 | J | 10 | U | NC | | 6020 |
| Arsenic | 1.9 | J | 2.77 | J | NC | | 6020 |
| Barium | 70 | | 70.4 | | NC | 0.570K | 6020 |
| Beryllium | 1.0 | U | 5.0 | U | NC | | 6020 |
| Cadmium | 0.14 | J | 5.0 | U | NC | | 6020 |
| Chromium | 0.94 | J | 10 | U | NC | | 6020 |
| Cobalt | 0.49 | J | 0.485 | J | NC | | 6020 |
| Copper | 1.1 | J | 10 | U | NC | | 6020 |
| Lead | 0.23 | J | 5.0 | U | NC | | 6020 |
| Molybdenum | 0.68 | J | 0.555 | J | NC | | 6020 |
| Nickel | 0.92 | J | 10 | U | NC | | 6020 |
| Selenium | 5.0 | U | 25 | U | NC | | 6020 |
| Silver | 1.0 | U | 5.0 | U | NC | | 6020 |
| Thallium | 0.86 | J | 1.92 | J | NC | | 6020 |
| Vanadium | 2.9 | J | 3.48 | J | NC | | 6020 |
| Tungsten | 0.66 | J | 50 | U | NC | | 6020 |
| Zinc | 20 | U | 100 | U | NC | | 6020 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Instrument ID: H4 Method: 7470A

Start Date: 04/28/2012 10:06 End Date: 04/28/2012 15:00

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Hg | | | | | | | | | | | | | | | | | | | | |
| IC 240-41879/1-A | | | 10:06 | X | | | | | | | | | | | | | | | | | | | | |
| IC 240-41879/2-A | | | 10:08 | X | | | | | | | | | | | | | | | | | | | | |
| IC 240-41879/3-A | | | 10:10 | X | | | | | | | | | | | | | | | | | | | | |
| IC 240-41879/4-A | | | 10:13 | X | | | | | | | | | | | | | | | | | | | | |
| IC 240-41879/5-A | | | 10:15 | X | | | | | | | | | | | | | | | | | | | | |
| IC 240-41879/6-A | | | 10:17 | X | | | | | | | | | | | | | | | | | | | | |
| ICV 240-41879/7-A | 1 | | 10:19 | X | | | | | | | | | | | | | | | | | | | | |
| ICB 240-41879/8-A | 1 | | 10:22 | X | | | | | | | | | | | | | | | | | | | | |
| CRA 240-41879/9-A | 1 | | 10:24 | X | | | | | | | | | | | | | | | | | | | | |
| CCVL 240-41879/10-A | 1 | | 10:26 | X | | | | | | | | | | | | | | | | | | | | |
| CCB 240-41879/11-A | | | 10:28 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:30 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:32 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:34 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:36 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:38 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:40 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:42 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:44 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:46 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:49 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-41879/12-A | | | 10:52 | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-41879/11-A | | | 10:55 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:57 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:59 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:01 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:03 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:05 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:07 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:08 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:11 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:13 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:15 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-41879/12-A | | | 11:17 | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-41879/11-A | | | 11:19 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:22 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:24 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:26 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:28 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-41879/12-A | | | 11:31 | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-41879/11-A | | | 11:33 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:35 | | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Instrument ID: H4 Method: 7470A

Start Date: 04/28/2012 10:06 End Date: 04/28/2012 15:00

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Hg | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:37 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:38 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:40 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:44 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:45 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:48 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:51 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:53 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-41879/12-A | | | 11:55 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-41879/11-A | | | 11:59 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:01 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:03 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:05 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:06 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:08 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:11 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:13 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:15 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:16 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:18 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-41879/12-A | | | 12:20 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-41879/11-A | | | 12:22 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:24 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:26 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:28 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:30 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:32 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:34 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:36 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:37 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:39 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:41 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-41879/12-A | 1 | | 12:43 | X | | | | | | | | | | | | | | | | | | | |
| CCB 240-41879/11-A | 1 | | 12:45 | X | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:47 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:50 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:52 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:54 | | | | | | | | | | | | | | | | | | | | |
| MB 240-41887/1-A | 1 | T | 12:56 | X | | | | | | | | | | | | | | | | | | | |
| LCS 240-41887/2-A | 1 | T | 12:58 | X | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:00 | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Instrument ID: H4 Method: 7470A

Start Date: 04/28/2012 10:06 End Date: 04/28/2012 15:00

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Hg | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:03 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:05 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:07 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-41879/12-A | 1 | | 13:09 | X | | | | | | | | | | | | | | | | | | | |
| CCB 240-41879/11-A | 1 | | 13:11 | X | | | | | | | | | | | | | | | | | | | |
| 240-10552-L-17-B MS | 1 | T | 13:13 | X | | | | | | | | | | | | | | | | | | | |
| 240-10552-L-17-C MSD | 1 | T | 13:15 | X | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:17 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:19 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:21 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:23 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:25 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:27 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:29 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:31 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-41879/12-A | 1 | | 13:33 | X | | | | | | | | | | | | | | | | | | | |
| CCB 240-41879/11-A | 1 | | 13:35 | X | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:37 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:39 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:41 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:42 | | | | | | | | | | | | | | | | | | | | |
| 240-10670-2 | 1 | T | 13:44 | X | | | | | | | | | | | | | | | | | | | |
| 240-10670-2 | 1 | D | 13:47 | X | | | | | | | | | | | | | | | | | | | |
| 240-10670-3 | 1 | T | 13:49 | X | | | | | | | | | | | | | | | | | | | |
| 240-10670-3 | 1 | D | 13:51 | X | | | | | | | | | | | | | | | | | | | |
| 240-10670-4 | 1 | T | 13:53 | X | | | | | | | | | | | | | | | | | | | |
| 240-10670-4 | 1 | D | 13:55 | X | | | | | | | | | | | | | | | | | | | |
| CCV 240-41879/12-A | 1 | | 13:57 | X | | | | | | | | | | | | | | | | | | | |
| CCB 240-41879/11-A | 1 | | 13:59 | X | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:00 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:03 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:05 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:07 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:09 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:11 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:13 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:15 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:17 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:19 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-41879/12-A | | | 14:22 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-41879/11-A | | | 14:24 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:26 | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Instrument ID: H4 Method: 7470A

Start Date: 04/28/2012 10:06 End Date: 04/28/2012 15:00

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Hg | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:28 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:29 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:32 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:34 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:36 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:38 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:40 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:42 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:44 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-41879/12-A | | | 14:46 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-41879/11-A | | | 14:48 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:50 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:52 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:54 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:56 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-41879/12-A | | | 14:58 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-41879/11-A | | | 15:00 | | | | | | | | | | | | | | | | | | | | |

Prep Types

D = Dissolved

T = Total/NA

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

ICV Source: MTHGICVW_00284 Concentration Units: ug/L

CCV Source: MTHGCALW_00185

| Analyte | ICV 240-41879/7-A 04/28/2012 10:19 | | | | CCVL 240-41879/10-A 04/28/2012 10:26 | | | | CCV 240-41879/12-A 04/28/2012 12:43 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Mercury** | 2.40 | | 2.50 | 96 | 5.07 | | 5.00 | 101 | 5.12 | | 5.00 | 102 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

ICV Source: MTHGICVW_00284 Concentration Units: ug/L

CCV Source: MTHGCALW_00185

| Analyte | CCV 240-41879/12-A 04/28/2012 13:09 | | | | CCV 240-41879/12-A 04/28/2012 13:33 | | | | CCV 240-41879/12-A 04/28/2012 13:57 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Mercury** | 5.15 | | 5.00 | 103 | 5.15 | | 5.00 | 103 | 5.14 | | 5.00 | 103 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Method: 7470A Instrument ID: H4

Lab Sample ID: CRA 240-41879/9-A Concentration Units: ug/L

CRQL Check Standard Source: MTHGCALW_00185

| Analyte | CRQL Check Standard | | | | |
|---|---|---|---|---|---|
| | True | Found | Qualifiers | %R(1) | Limits |
| Mercury | 0.200 | 0.215 | | 107 | 50-150 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Concentration Units: ug/L

| Analyte | RL | ICB 240-41879/8-A 04/28/2012 10:22 | | CCB 240-41879/11-A 04/28/2012 12:45 | | CCB 240-41879/11-A 04/28/2012 13:11 | | CCB 240-41879/11-A 04/28/2012 13:35 | |
|---|---|---|---|---|---|---|---|---|---|
| | | Found | C | Found | C | Found | C | Found | C |
| **Mercury** | 0.20 | 0.20 | U | 0.20 | U | 0.20 | U | 0.20 | U |

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Concentration Units: ug/L

| Analyte | RL | CCB 240-41879/11-A 04/28/2012 13:59 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Found | C | Found | C | Found | C | Found | C |
| **Mercury** | 0.20 | 0.20 | U | | | | | | |

Italicized analytes were not requested for this sequence.

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Instrument ID: I8 Method: 6020

Start Date: 04/28/2012 08:05 End Date: 04/29/2012 03:22

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Ag | As | Ba | Be | Cd | Co | Cr | Cu | Mo | Ni | Pb | Sb | Se | Tl | V | W | Zn | | | |
| ICIS 240-42093/1 | | | 08:05 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| STD2 240-42093/2 IC | 1 | | 08:11 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| STD3 240-42093/3 IC | 1 | | 08:18 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| STD4 240-42093/4 IC | 1 | | 08:25 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ICV 240-42093/5 | 1 | | 08:30 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ICB 240-42093/6 | 1 | | 08:37 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CRI 240-42093/7 | 1 | | 08:43 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CRI 240-42093/8 | | | 08:48 | | | | | | | | | | | | | | | | | | | | |
| ICSA 240-42093/9 | 1 | | 08:53 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ICSAB 240-42093/10 | 1 | | 08:59 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CCV 240-42093/11 | | | 09:06 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-42093/12 | | | 09:13 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:19 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:24 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:31 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:37 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:42 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:56 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:02 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:09 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:16 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42093/23 | | | 10:21 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-42093/24 | | | 10:28 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:34 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:39 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:44 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:50 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:55 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:00 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:06 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:11 | | | | | | | | | | | | | | | | | | | | |
| CRI 240-42093/33 | | | 11:17 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42093/34 | | | 11:22 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-42093/35 | | | 11:29 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:40 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:46 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:51 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:56 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:02 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:07 | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Instrument ID: I8 Method: 6020

Start Date: 04/28/2012 08:05 End Date: 04/29/2012 03:22

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Ag | As | Ba | Be | Cd | Co | Cr | Cu | Mo | Ni | Pb | Sb | Se | Tl | V | W | Zn | | | |
| ZZZZZZ | | | 12:13 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:18 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:23 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42093/46 | | | 12:29 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-42093/47 | | | 12:36 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:41 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:47 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:52 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:58 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:03 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:10 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:16 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:21 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:28 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:35 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42093/58 | | | 13:41 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-42093/59 | | | 13:48 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:53 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:00 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:07 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:13 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:18 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:24 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:29 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:40 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:46 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42093/70 | | | 14:51 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-42093/71 | | | 14:58 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:04 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:09 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:14 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:20 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:25 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:31 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:36 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:41 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:47 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:52 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42093/82 | 1 | | 15:58 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| CCB 240-42093/83 | 1 | | 16:05 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| MB 240-41956/1-A | 1 | R | 16:10 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Instrument ID: I8 Method: 6020

Start Date: 04/28/2012 08:05 End Date: 04/29/2012 03:22

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Ag | As | Ba | Be | Cd | Co | Cr | Cu | Mo | Ni | Pb | Sb | Se | Tl | V | W | Zn | | | |
| LCS 240-41956/3-A | 1 | R | 16:16 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ZZZZZZ | | | 16:23 | | | | | | | | | | | | | | | | | | | | |
| 240-10623-K-4-B SD ^5 | 5 | R | 16:28 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| 240-10623-K-4-E MS | 1 | R | 16:34 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| 240-10623-K-4-F MSD | 1 | R | 16:41 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ZZZZZZ | | | 16:48 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:54 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:59 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:04 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42093/94 | 1 | | 17:10 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CCB 240-42093/95 | 1 | | 17:17 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ZZZZZZ | | | 17:22 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:28 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:33 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:39 | | | | | | | | | | | | | | | | | | | | |
| 240-10670-2 | 1 | R | 17:44 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| 240-10670-2 | 1 | D | 17:49 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| 240-10670-3 | 1 | R | 17:55 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| 240-10670-3 | 1 | D | 18:00 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| 240-10670-4 | 1 | R | 18:06 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| 240-10670-4 | 1 | D | 18:11 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CCV 240-42093/106 | 1 | | 18:17 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CCB 240-42093/107 | 1 | | 18:24 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ZZZZZZ | | | 18:29 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:42 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:47 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:53 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:58 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:05 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:12 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:18 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:23 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42093/118 | | | 19:29 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-42093/119 | | | 19:36 | | | | | | | | | | | | | | | | | | | | |
| ICSA 240-42093/120 | | | 19:41 | | | | | | | | | | | | | | | | | | | | |
| ICSAB 240-42093/121 | | | 19:47 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42093/122 | | | 19:54 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-42093/123 | | | 20:01 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:07 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:12 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:18 | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Instrument ID: I8 Method: 6020

Start Date: 04/28/2012 08:05 End Date: 04/29/2012 03:22

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Ag | As | Ba | Be | Cd | Co | Cr | Cu | Mo | Ni | Pb | Sb | Se | Tl | V | W | Zn | | | |
| ZZZZZZ | | | 20:23 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:28 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:34 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:39 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:45 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:50 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:56 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42093/134 | | | 21:01 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-42093/135 | | | 21:08 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 21:14 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 21:19 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 21:25 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 21:30 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 21:36 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 21:41 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 21:48 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 21:54 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 21:59 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:06 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42093/146 | | | 22:14 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-42093/147 | | | 22:21 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:26 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:32 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:37 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:43 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:48 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:53 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:59 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 23:04 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 23:10 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 23:15 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42093/158 | | | 23:21 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-42093/159 | | | 23:28 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 23:34 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 23:39 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 23:44 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 23:50 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 23:55 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 00:01 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 00:06 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 00:12 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 00:17 | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Instrument ID: I8 Method: 6020

Start Date: 04/28/2012 08:05 End Date: 04/29/2012 03:22

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Ag | As | Ba | Be | Cd | Co | Cr | Cu | Mo | Ni | Pb | Sb | Se | Tl | V | W | Zn | | | |
| ZZZZZZ | | | 00:23 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42093/170 | | | 00:28 | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-42093/171 | | | 00:35 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 00:40 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 00:48 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 00:53 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 01:00 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 01:07 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 01:13 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 01:18 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 01:24 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 01:29 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 01:35 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42093/182 | | | 01:40 | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-42093/183 | | | 01:47 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 01:53 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 01:58 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 02:03 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 02:09 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 02:14 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 02:20 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 02:25 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 02:31 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 02:36 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 02:42 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42093/194 | | | 02:47 | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-42093/195 | | | 02:54 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 02:59 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 03:04 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 03:10 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42093/199 | | | 03:15 | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-42093/200 | | | 03:22 | | | | | | | | | | | | | | | | | | | | | |

Prep Types
D = Dissolved
R = Total Recoverable

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

ICV Source: MTMSICVW_00014 Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW_00039

| Analyte | ICV 240-42093/5 04/28/2012 08:30 | | | | CCV 240-42093/82 04/28/2012 15:58 | | | | CCV 240-42093/94 04/28/2012 17:10 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Antimony** | 82.3 | | 80.0 | 103 | 98.9 | | 100 | 99 | 99.6 | | 100 | 100 |
| **Arsenic** | 81.8 | | 80.0 | 102 | 103 | | 100 | 103 | 104 | | 100 | 104 |
| **Barium** | 81.1 | | 80.0 | 101 | 100 | | 100 | 100 | 101 | | 100 | 101 |
| **Beryllium** | 79.4 | | 80.0 | 99 | 105 | | 100 | 105 | 102 | | 100 | 102 |
| **Cadmium** | 82.4 | | 80.0 | 103 | 102 | | 100 | 102 | 103 | | 100 | 103 |
| **Chromium** | 80.8 | | 80.0 | 101 | 102 | | 100 | 102 | 103 | | 100 | 103 |
| **Cobalt** | 81.5 | | 80.0 | 102 | 102 | | 100 | 102 | 103 | | 100 | 103 |
| **Copper** | 83.5 | | 80.0 | 104 | 106 | | 100 | 106 | 106 | | 100 | 106 |
| **Lead** | 83.1 | | 80.0 | 104 | 104 | | 100 | 104 | 105 | | 100 | 105 |
| **Molybdenum** | 82.6 | | 80.0 | 103 | 104 | | 100 | 104 | 105 | | 100 | 105 |
| **Nickel** | 82.9 | | 80.0 | 104 | 103 | | 100 | 103 | 104 | | 100 | 104 |
| **Selenium** | 82.2 | | 80.0 | 103 | 105 | | 100 | 105 | 105 | | 100 | 105 |
| **Silver** | 83.9 | | 80.0 | 105 | 104 | | 100 | 104 | 104 | | 100 | 104 |
| **Thallium** | 81.6 | | 80.0 | 102 | 104 | | 100 | 104 | 106 | | 100 | 106 |
| **Tungsten** | 81.3 | | 80.0 | 102 | 103 | | 100 | 103 | 104 | | 100 | 104 |
| **Vanadium** | 80.6 | | 80.0 | 101 | 101 | | 100 | 101 | 102 | | 100 | 102 |
| **Zinc** | 83.5 | | 80.0 | 104 | 105 | | 100 | 105 | 105 | | 100 | 105 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

ICV Source: MTMSICVW_00014 Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW_00039

| Analyte | CCV 240-42093/106 04/28/2012 18:17 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Antimony** | 99.6 | | 100 | 100 | | | | | | | | |
| **Arsenic** | 104 | | 100 | 104 | | | | | | | | |
| **Barium** | 101 | | 100 | 101 | | | | | | | | |
| **Beryllium** | 103 | | 100 | 103 | | | | | | | | |
| **Cadmium** | 102 | | 100 | 102 | | | | | | | | |
| **Chromium** | 103 | | 100 | 103 | | | | | | | | |
| **Cobalt** | 103 | | 100 | 103 | | | | | | | | |
| **Copper** | 105 | | 100 | 105 | | | | | | | | |
| **Lead** | 105 | | 100 | 105 | | | | | | | | |
| **Molybdenum** | 104 | | 100 | 104 | | | | | | | | |
| **Nickel** | 103 | | 100 | 103 | | | | | | | | |
| **Selenium** | 106 | | 100 | 106 | | | | | | | | |
| **Silver** | 103 | | 100 | 103 | | | | | | | | |
| **Thallium** | 105 | | 100 | 105 | | | | | | | | |
| **Tungsten** | 104 | | 100 | 104 | | | | | | | | |
| **Vanadium** | 103 | | 100 | 103 | | | | | | | | |
| **Zinc** | 105 | | 100 | 105 | | | | | | | | |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Method: 6020 Instrument ID: I8

Lab Sample ID: CRI 240-42093/7 Concentration Units: ug/L

CRQL Check Standard Source: MTMSCRIW_00016

| Analyte | CRQL Check Standard | | | | |
|---|---|---|---|---|---|
| | True | Found | Qualifiers | %R(1) | Limits |
| Antimony | 2.00 | 2.07 | | 104 | 50-150 |
| Arsenic | 2.00 | 2.23 | J | 112 | 50-150 |
| Barium | 1.00 | 1.03 | J | 103 | 50-150 |
| Beryllium | 1.00 | 1.04 | | 104 | 50-150 |
| Cadmium | 0.500 | 0.551 | J | 110 | 50-150 |
| Chromium | 2.00 | 1.85 | J | 93 | 50-150 |
| Cobalt | 1.00 | 1.04 | | 104 | 50-150 |
| Copper | 2.00 | 2.47 | | 124 | 50-150 |
| Lead | 1.00 | 1.10 | | 110 | 50-150 |
| Molybdenum | 10.0 | 10.1 | | 101 | 50-150 |
| Nickel | 2.00 | 2.85 | | 143 | 50-150 |
| Selenium | 2.00 | 1.93 | J | 97 | 50-150 |
| Silver | 0.500 | 0.599 | J | 120 | 50-150 |
| Thallium | 1.00 | 1.25 | J | 125 | 50-150 |
| Vanadium | 5.00 | 5.04 | J | 101 | 50-150 |
| Tungsten | 10.0 | 9.61 | J | 96 | 50-150 |
| Zinc | 10.0 | 9.76 | J | 98 | 50-150 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

Concentration Units: ug/L

| Analyte | RL | ICB 240-42093/6 04/28/2012 08:37 | | CCB 240-42093/83 04/28/2012 16:05 | | CCB 240-42093/95 04/28/2012 17:17 | | CCB 240-42093/107 04/28/2012 18:24 | |
|---|---|---|---|---|---|---|---|---|---|
| | | Found | C | Found | C | Found | C | Found | C |
| **Antimony** | 2.0 | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U |
| **Arsenic** | 5.0 | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| **Barium** | 5.0 | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| **Beryllium** | 1.0 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| **Cadmium** | 1.0 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| **Chromium** | 2.0 | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U |
| **Cobalt** | 1.0 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| **Copper** | 2.0 | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U |
| **Lead** | 1.0 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| **Molybdenum** | 10 | 0.453 | J | 0.289 | J | 0.295 | J | 0.321 | J |
| **Nickel** | 2.0 | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U |
| **Selenium** | 5.0 | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| **Silver** | 1.0 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| **Thallium** | 2.0 | 0.475 | J | 0.454 | J | 0.585 | J | 0.441 | J |
| **Tungsten** | 10 | 0.681 | J | 0.391 | J | 0.425 | J | 10 | U |
| **Vanadium** | 20 | 20 | U | 20 | U | 20 | U | 20 | U |
| **Zinc** | 20 | 20 | U | 20 | U | 20 | U | 20 | U |

Italicized analytes were not requested for this sequence.

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton  Job No.: 240-10670-1

SDG No.:

Lab Sample ID: ICSA 240-42093/9  Instrument ID: I8

Lab File ID: I8042812A.csv  ICS Source: MTMSICSAW_00014

Concentration Units: ug/L

| Analyte | True Solution A | Found Solution A | Percent Recovery |
|---|---|---|---|
| **Antimony** | | **0.170** | |
| **Arsenic** | | **0.431** | |
| **Barium** | | **0.184** | |
| **Beryllium** | | **0.0370** | |
| **Cadmium** | | **-0.527** | |
| **Chromium** | | **0.373** | |
| **Cobalt** | | **0.0960** | |
| **Copper** | | **0.485** | |
| **Lead** | | **0.0670** | |
| **Molybdenum** | **1000** | **1042** | **104** |
| **Nickel** | | **0.710** | |
| **Selenium** | | **-0.199** | |
| **Silver** | | **0.0400** | |
| **Thallium** | | **0.0950** | |
| **Tungsten** | | **0.145** | |
| **Vanadium** | | **0.0690** | |
| **Zinc** | | **4.99** | |
| *Aluminum* | *50000* | *51080* | *102* |
| *Boron* | | *0.169* | |
| *Calcium* | *50000* | *51270* | *103* |
| *Iron* | *50000* | *52480* | *105* |
| *Magnesium* | *50000* | *51630* | *103* |
| *Manganese* | | *0.552* | |
| *Potassium* | *50000* | *51090* | *102* |
| *Sodium* | *50000* | *51920* | *104* |
| *Strontium* | | *0.338* | |
| *Tin* | | *0.0850* | |
| *Titanium* | *1000* | *1073* | *107* |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton  Job No.: 240-10670-1

SDG No.:

Lab Sample ID: ICSAB 240-42093/10  Instrument ID: I8

Lab File ID: I8042812A.csv  ICS Source: MTMSICSABW_00014

Concentration Units: ug/L

| Analyte | True Solution AB | Found Solution AB | Found Percent Recovery |
|---|---|---|---|
| **Antimony** | **100** | **102** | **102** |
| **Arsenic** | **100** | **102** | **102** |
| **Barium** | **100** | **104** | **104** |
| **Beryllium** | **100** | **93.8** | **94** |
| **Cadmium** | **100** | **102** | **102** |
| **Chromium** | **100** | **110** | **110** |
| **Cobalt** | **100** | **103** | **103** |
| **Copper** | **100** | **103** | **103** |
| **Lead** | **100** | **110** | **110** |
| **Molybdenum** | **1100** | **1163** | **106** |
| **Nickel** | **100** | **107** | **107** |
| **Selenium** | **100** | **105** | **105** |
| **Silver** | **100** | **104** | **104** |
| **Thallium** | **100** | **108** | **108** |
| **Tungsten** | **100** | **103** | **103** |
| **Vanadium** | **100** | **103** | **103** |
| **Zinc** | **100** | **106** | **106** |
| *Aluminum* | *50000* | *50810* | *102* |
| *Boron* | *100* | *90.9* | *91* |
| *Calcium* | *50000* | *51580* | *103* |
| *Iron* | *50000* | *52740* | *105* |
| *Magnesium* | *50000* | *51780* | *104* |
| *Manganese* | *100* | *105* | *105* |
| *Potassium* | *50000* | *50640* | *101* |
| *Sodium* | *50000* | *51680* | *103* |
| *Strontium* | *100* | *97.6* | *98* |
| *Tin* | *100* | *101* | *101* |
| *Titanium* | *1100* | *1153* | *105* |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

ICP-MS Instrument ID: I8 Start Date: 04/28/2012 End Date: 04/28/2012

| Lab Sample ID | Time | Internal Standards %RI For: | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Element Li | Q | Element Sc | Q | Element Sc | Q | Element Ge | Q | Element In | Q |
| STD2 240-42093/2 IC | 08:11 | 78 | | 88 | | 93 | | 91 | | 93 | |
| STD3 240-42093/3 IC | 08:18 | 72 | | 82 | | 86 | | 83 | | 87 | |
| STD4 240-42093/4 IC | 08:25 | 92 | | 99 | | 99 | | 99 | | 98 | |
| ICV 240-42093/5 | 08:30 | 79 | | 89 | | 92 | | 90 | | 92 | |
| ICB 240-42093/6 | 08:37 | 93 | | 98 | | 99 | | 98 | | 98 | |
| CRI 240-42093/7 | 08:43 | 90 | | 97 | | 98 | | 97 | | 97 | |
| ICSA 240-42093/9 | 08:53 | 66 | | 78 | | 79 | | 80 | | 84 | |
| ICSAB 240-42093/10 | 08:59 | 57 | | 69 | | 74 | | 76 | | 81 | |
| CCV 240-42093/82 | 15:58 | 70 | | 69 | | 74 | | 70 | | 73 | |
| CCB 240-42093/83 | 16:05 | 92 | | 80 | | 81 | | 80 | | 80 | |
| MB 240-41956/1-A | 16:10 | 90 | | 81 | | 82 | | 80 | | 81 | |
| LCS 240-41956/3-A | 16:16 | 84 | | 77 | | 80 | | 78 | | 79 | |
| 240-10623-K-4-B SD | 16:28 | 81 | | 73 | | 77 | | 73 | | 75 | |
| 240-10623-K-4-E MS | 16:34 | 61 | | 67 | | 69 | | 65 | | 70 | |
| 240-10623-K-4-F MSD | 16:41 | 62 | | 67 | | 69 | | 65 | | 70 | |
| CCV 240-42093/94 | 17:10 | 69 | | 70 | | 73 | | 70 | | 72 | |
| CCB 240-42093/95 | 17:17 | 89 | | 79 | | 81 | | 79 | | 79 | |
| 240-10670-2 | 17:44 | 74 | | 72 | | 74 | | 73 | | 74 | |
| 240-10670-2 | 17:49 | 72 | | 70 | | 73 | | 72 | | 73 | |
| 240-10670-3 | 17:55 | 71 | | 71 | | 74 | | 73 | | 74 | |
| 240-10670-3 | 18:00 | 69 | | 69 | | 73 | | 72 | | 74 | |
| 240-10670-4 | 18:06 | 74 | | 71 | | 75 | | 75 | | 76 | |
| 240-10670-4 | 18:11 | 73 | | 70 | | 74 | | 73 | | 75 | |
| CCV 240-42093/106 | 18:17 | 65 | | 66 | | 70 | | 68 | | 70 | |
| CCB 240-42093/107 | 18:24 | 88 | | 76 | | 78 | | 77 | | 78 | |

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Canton Job No.: 240-10670-1

SDG No.:

ICP-MS Instrument ID: I8 Start Date: 04/28/2012 End Date: 04/28/2012

| Lab Sample ID | Time | Internal Standards %RI For: | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Element Tb | Q | Element Ho | Q | Element Bi | Q | Element | Q | Element | Q |
| STD2 240-42093/2 IC | 08:11 | | | 96 | | | | | | | |
| STD3 240-42093/3 IC | 08:18 | | | 91 | | | | | | | |
| STD4 240-42093/4 IC | 08:25 | | | 99 | | | | | | | |
| ICV 240-42093/5 | 08:30 | | | 95 | | | | | | | |
| ICB 240-42093/6 | 08:37 | | | 98 | | | | | | | |
| CRI 240-42093/7 | 08:43 | | | 97 | | | | | | | |
| ICSA 240-42093/9 | 08:53 | | | 86 | | | | | | | |
| ICSAB 240-42093/10 | 08:59 | | | 85 | | | | | | | |
| CCV 240-42093/82 | 15:58 | | | 76 | | | | | | | |
| CCB 240-42093/83 | 16:05 | | | 81 | | | | | | | |
| MB 240-41956/1-A | 16:10 | | | 81 | | | | | | | |
| LCS 240-41956/3-A | 16:16 | | | 81 | | | | | | | |
| 240-10623-K-4-B SD | 16:28 | | | 78 | | | | | | | |
| 240-10623-K-4-E MS | 16:34 | | | 75 | | | | | | | |
| 240-10623-K-4-F MSD | 16:41 | | | 75 | | | | | | | |
| CCV 240-42093/94 | 17:10 | | | 76 | | | | | | | |
| CCB 240-42093/95 | 17:17 | | | 80 | | | | | | | |
| 240-10670-2 | 17:44 | | | 79 | | | | | | | |
| 240-10670-2 | 17:49 | | | 78 | | | | | | | |
| 240-10670-3 | 17:55 | | | 78 | | | | | | | |
| 240-10670-3 | 18:00 | | | 78 | | | | | | | |
| 240-10670-4 | 18:06 | | | 79 | | | | | | | |
| 240-10670-4 | 18:11 | | | 78 | | | | | | | |
| CCV 240-42093/106 | 18:17 | | | 74 | | | | | | | |
| CCB 240-42093/107 | 18:24 | | | 78 | | | | | | | |

**Tetra Tech, Inc.** **INTERNAL CORRESPONDENCE**

**TO:** **A. APANAVAGE** **DATE:** **JUNE 21, 2012**

**FROM:** **MICHELLE L. ALLEN** **COPIES:** **DV FILE**

**SUBJECT:** **ORGANIC DATA VALIDATION – VOC/1,4-DIOXANE/DRO/GRO**
**LOCKHEED MARTIN CORPORATION (LMC) – MARTIN STATE AIRPORT (MSA)**
**SDG 240-10808-1**

**SAMPLES:** 4/Aqueous/VOC

GSP-MW5-043012 GSP-MW6-043012 MT-MW02S-043012
TB-043012

3/Aqueous/1,4-DIOXANE/DRO/GRO

GSP-MW5-043012 GSP-MW6-043012 MT-MW02S-043012

Overview

The sample set for LMC-MSA, SDG 240-10808-1 consisted of three (3) aqueous environmental samples and one (1) trip blank. All four (4) aqueous samples were analyzed for volatile organic compounds (VOC). The three (3) aqueous environmental samples were analyzed for the semi-volatile organic compound (SVOC), 1,4-dioxane, diesel range organics (DRO) and gasoline range organics (GRO). No field duplicate sample pair was included in this SDG.

The samples were collected by Tetra Tech, Inc. on April 30, 2012 and analyzed by Test America, Inc. All analyses were conducted in accordance with SW-846 Methods 8260C, 8270C, and 8015B analytical and reporting protocols.

The data contained in this SDG were validated with regard to the following parameters: data completeness, holding times, GC/MS tuning, initial/continuing calibrations, laboratory method blank results, trip blank results, surrogate spike recoveries, blank spike results, matrix spike/matrix spike duplicate results, internal standard recoveries, chromatographic resolution, compound identification, compound quantitation, and detection limits. Areas of concern are listed below.

Major

- The initial and continuing calibrations performed on instrument A3UX16 in the VOC fraction had Relative Response Factors (RRFs) for tert-butyl alcohol and vinyl acetate below the 0.050 minimum response criterion. All samples were affected. The non-detected results reported for these compounds in the affected samples were qualified as rejected, (UR).

- Tentatively identified compounds (TICs) identified as silanol compounds were qualified as rejected (R), because these are indicative of column bleed.

Minor

- The following contaminants were detected in the laboratory method blanks at the following

maximum concentrations:

| Compound | Maximum Concentration (µg/L) | Action Level (µg/L) |
|---|---|---|
| 1,2,3-Trichlorobenzene [(1)] | 0.372 | 1.86 |
| 1,2,4-Trichlorobenzene [(1)] | 0.247 | 1.24 |
| Hexachlorobutadiene [(1)] | 0.462 | 2.31 |
| GRO (C6-C10) [(2)] | 28 | 140 |

[1] Maximum concentration detected in the laboratory method blank, MB 240-43549/5, affecting all samples.
[2] Maximum concentration detected in the laboratory method blank, MB 240-42995/7, affecting all samples.

An action level of 5X the maximum concentration was used to evaluate for blank contamination. Sample aliquot and dilution factor, if applicable, were taken into consideration when evaluating for blank contamination. Positive results for GRO reported below the established action level were qualified as non-detected, (B). No action was necessary for the remaining compounds because no positive results were reported for these compounds in the affected samples.

- Positive results reported below the Reporting Limit (RL) limit but above the Method Detection Limit (MDL) were qualified as estimated, (J).
- Tentatively identified compounds (TICs) were qualified as estimated presumptively present, (NJ).

Notes

The VOC compounds, 2-chloroethyl vinyl ether and 2-butanone, were not recovered in the Matrix Spike/Matrix Spike Duplicate (MS/MSD) analyses. No action was taken because the sample for the MS/MSD analyses was not from this SDG and the blank spike sample had acceptable %Rs for these compounds.

Sample MT-MW02S-043012 was diluted 5X prior to analysis in the VOC fraction. The RLs of the non-detected results were elevated.

Non-detected results were reported to the MDL.

**Executive Summary**

**Laboratory Performance:** Initial and continuing calibration RRFs for tert-butyl alcohol and vinyl acetate were below the quality control criterion resulting in the rejection of the non-detected results. Laboratory method blank contamination was noted in the VOC and GRO fractions.

**Other Factors Affecting Data Quality:** One sample required a dilution for the VOC fraction.

The data for these analyses were reviewed with reference to Region III modifications to U.S. EPA National Functional Guidelines for Organic Data Validation (Sept. 1994) and SW-846 Methods 8260C, 8270C, and 8015B analytical and reporting protocols. The text of this report has been formulated to address only those problem areas affecting data quality.

for

Tetra Tech, Inc.
Michelle L. Allen
Chemist/Data Validator

Tetra Tech, Inc.
Joseph A. Samchuck
Quality Assurance Manager

Attachments:
Appendix A – Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
Appendix C – Support Documentation

## Appendix A

Qualified Analytical Results

**Qualifier Codes:**

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = ICP PDS Recovery Noncompliance; MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = RPD between columns/detectors >40% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity
Z1 = Tentatively Identified Compound considered presumptively present
Z2 = Tentatively Identified Compound column bleed

| PROJ_NO: 04021 | NSAMPLE | GSP-MW5-043012 | | | GSP-MW6-043012 | | | MT-MW02S-043012 | | | TB-043012 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-10808-1 | LAB_ID | 240-10808-2 | | | 240-10808-3 | | | 240-10808-4 | | | 240-10808-1 | | |
| FRACTION: OV | SAMP_DATE | 4/30/2012 | | | 4/30/2012 | | | 4/30/2012 | | | 4/30/2012 | | |
| MEDIA: WATER | QC_TYPE | NM | | | NM | | | NM | | | NM | | |
| | UNITS | UG/L | | | UG/L | | | UG/L | | | UG/L | | |
| | PCT_SOLIDS | 0.0 | | | 0.0 | | | 0.0 | | | 0.0 | | |
| | DUP_OF | | | | | | | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| 1,1,1,2-TETRACHLOROETHANE | | 0.23 | U | | 0.23 | U | | 1.2 | U | | 0.23 | U | |
| 1,1,1-TRICHLOROETHANE | | 0.22 | U | | 0.22 | U | | 1.1 | U | | 0.22 | U | |
| 1,1,2,2-TETRACHLOROETHANE | | 0.18 | U | | 0.18 | U | | 0.9 | U | | 0.18 | U | |
| 1,1,2-TRICHLOROTRIFLUOROETHANE | | 0.28 | U | | 0.28 | U | | 1.4 | U | | 0.28 | U | |
| 1,1-DICHLOROETHANE | | 0.15 | U | | 0.15 | U | | 0.75 | U | | 0.15 | U | |
| 1,1-DICHLOROETHENE | | 0.19 | U | | 0.19 | U | | 0.95 | U | | 0.19 | U | |
| 1,1-DICHLOROPROPENE | | 0.13 | U | | 0.13 | U | | 0.65 | U | | 0.13 | U | |
| 1,2,3-TRICHLOROBENZENE | | 0.17 | U | | 0.17 | U | | 0.85 | U | | 0.17 | U | |
| 1,2,3-TRICHLOROPROPANE | | 0.43 | U | | 0.43 | U | | 2.2 | U | | 0.43 | U | |
| 1,2,3-TRIMETHYLBENZENE | | 0.0059 | U | | 0.0059 | U | | 2.4 | J | P | 0.0059 | U | |
| 1,2,4-TRICHLOROBENZENE | | 0.15 | U | | 0.15 | U | | 0.75 | U | | 0.15 | U | |
| 1,2,4-TRIMETHYLBENZENE | | 0.12 | U | | 0.12 | U | | 9.2 | | | 0.12 | U | |
| 1,2-DIBROMO-3-CHLOROPROPANE | | 0.67 | U | | 0.67 | U | | 3.4 | U | | 0.67 | U | |
| 1,2-DIBROMOETHANE | | 0.24 | U | | 0.24 | U | | 1.2 | U | | 0.24 | U | |
| 1,2-DICHLOROBENZENE | | 0.13 | U | | 0.13 | U | | 0.65 | U | | 0.13 | U | |
| 1,2-DICHLOROETHANE | | 0.22 | U | | 0.22 | U | | 3.8 | J | P | 0.22 | U | |
| 1,2-DICHLOROPROPANE | | 0.18 | U | | 0.18 | U | | 0.9 | U | | 0.18 | U | |
| 1,3,5-TRIMETHYLBENZENE | | | | | | | | 47 | | | | | |
| 1,3-DICHLOROBENZENE | | 0.14 | U | | 0.14 | U | | 0.7 | U | | 0.14 | U | |
| 1,3-DICHLOROPROPANE | | 0.16 | U | | 0.16 | U | | 0.8 | U | | 0.16 | U | |
| 1,4-DICHLOROBENZENE | | 0.13 | U | | 0.13 | U | | 0.65 | U | | 0.13 | U | |
| 2,2-DICHLOROPROPANE | | 0.13 | U | | 0.13 | U | | 0.65 | U | | 0.13 | U | |
| 2,4-PENTANEDIONE, 3-METHYL- | | | | | | | | 7.8 | NJ | Z1 | | | |
| 2-BUTANONE | | 0.57 | U | | 0.57 | U | | 2.9 | U | | 0.57 | U | |
| 2-CHLOROETHYL VINYL ETHER | | 0.99 | U | | 0.99 | U | | 5 | U | | 0.99 | U | |
| 2-CHLOROTOLUENE | | 0.11 | U | | 0.11 | U | | 0.55 | U | | 0.11 | U | |
| 2-HEXANONE | | 0.41 | U | | 0.41 | U | | 2.1 | U | | 0.41 | U | |
| 3-PENTANOL, 2,2-DIMETHYL- | | | | | | | | 6.5 | NJ | Z1 | | | |
| 3-PENTANONE, 2,4-DIMETHYL- | | | | | | | | 12 | NJ | Z1 | | | |
| 4-CHLOROTOLUENE | | 0.18 | U | | 0.18 | U | | 0.9 | U | | 0.18 | U | |
| 4-ISOPROPYLTOLUENE | | 0.12 | U | | 0.12 | U | | 1.6 | J | P | 0.12 | U | |
| 4-METHYL-2-PENTANONE | | 0.32 | U | | 0.32 | U | | 2.5 | J | P | 0.32 | U | |
| ACETONE | | 1.1 | U | | 1.1 | U | | 90 | | | 1.1 | U | |
| BENZENE | | 0.13 | U | | 0.13 | U | | 87 | | | 0.13 | U | |
| BENZENE, 1-ETHYL-2-METHYL- | | | | | | | | 7.3 | NJ | Z1 | | | |

| PROJ_NO: 04021 | NSAMPLE | GSP-MW5-043012 | | | GSP-MW6-043012 | | | MT-MW02S-043012 | | | TB-043012 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-10808-1 | LAB_ID | 240-10808-2 | | | 240-10808-3 | | | 240-10808-4 | | | 240-10808-1 | | |
| FRACTION: OV | SAMP_DATE | 4/30/2012 | | | 4/30/2012 | | | 4/30/2012 | | | 4/30/2012 | | |
| MEDIA: WATER | QC_TYPE | NM | | | NM | | | NM | | | NM | | |
| | UNITS | UG/L | | | UG/L | | | UG/L | | | UG/L | | |
| | PCT_SOLIDS | 0.0 | | | 0.0 | | | 0.0 | | | 0.0 | | |
| | DUP_OF | | | | | | | | | | | | |
| PARAMETER | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| BENZENE, 1-ETHYL-3-METHYL- | | | | | | | 10 | NJ | Z1 | | | |
| BROMOBENZENE | 0.13 | U | | 0.13 | U | | 0.65 | U | | 0.13 | U | |
| BROMOCHLOROMETHANE | 0.29 | U | | 0.29 | U | | 1.5 | U | | 0.29 | U | |
| BROMODICHLOROMETHANE | 0.15 | U | | 0.15 | U | | 0.75 | U | | 0.15 | U | |
| BROMOFORM | 0.64 | U | | 0.64 | U | | 3.2 | U | | 0.64 | U | |
| BROMOMETHANE | 0.41 | U | | 0.41 | U | | 2.1 | U | | 0.41 | U | |
| CARBON DISULFIDE | 0.13 | J | P | 0.13 | U | | 0.65 | U | | 0.13 | U | |
| CARBON TETRACHLORIDE | 1.9 | | | 0.13 | U | | 0.65 | U | | 0.13 | U | |
| CHLOROBENZENE | 0.15 | U | | 0.15 | U | | 0.75 | U | | 0.15 | U | |
| CHLORODIBROMOMETHANE | 0.18 | U | | 0.18 | U | | 0.9 | U | | 0.18 | U | |
| CHLOROETHANE | 0.29 | U | | 0.29 | U | | 1.5 | U | | 0.29 | U | |
| CHLOROFORM | 0.68 | J | P | 0.16 | U | | 0.8 | U | | 0.16 | U | |
| CHLOROMETHANE | 0.3 | U | | 0.3 | U | | 1.5 | U | | 0.3 | U | |
| CIS-1,2-DICHLOROETHENE | 0.17 | U | | 0.17 | U | | 4.8 | J | P | 0.17 | U | |
| CIS-1,3-DICHLOROPROPENE | 0.14 | U | | 0.14 | U | | 0.7 | U | | 0.14 | U | |
| CYCLOBUTANE, METHYL- | | | | | | | 9.8 | NJ | Z1 | | | |
| CYCLOHEXANE | | | | | | | 45 | | | | | |
| CYCLOPENTANE, METHYL- | | | | | | | 19 | NJ | Z1 | | | |
| DIBROMOMETHANE | 0.28 | U | | 0.28 | U | | 1.4 | U | | 0.28 | U | |
| DICHLORODIFLUOROMETHANE | 0.31 | U | | 0.31 | U | | 1.6 | U | | 0.31 | U | |
| DIISOPROPYL ETHER | 1.5 | U | | 1.5 | U | | 7.5 | U | | 1.5 | U | |
| ETHYL TERT-BUTYL ETHER | 0.11 | U | | 0.11 | U | | 0.55 | U | | 0.11 | U | |
| ETHYLBENZENE | 0.17 | U | | 0.17 | U | | 180 | | | 0.17 | U | |
| HEXACHLOROBUTADIENE | 0.3 | U | | 0.3 | U | | 1.5 | U | | 0.3 | U | |
| INDANE | | | | | | | 8.1 | NJ | Z1 | | | |
| ISOPROPYLBENZENE | 0.13 | U | | 0.13 | U | | 31 | | | 0.13 | U | |
| M+P-XYLENES | 0.24 | U | | 0.24 | U | | 50 | | | 0.24 | U | |
| METHYL TERT-BUTYL ETHER | 0.17 | U | | 0.17 | U | | 0.85 | U | | 0.17 | U | |
| METHYLENE CHLORIDE | 0.33 | U | | 0.33 | U | | 1.7 | U | | 0.33 | U | |
| NAPHTHALENE | 0.24 | U | | 0.24 | U | | 1.2 | U | | 0.24 | U | |
| N-BUTYLBENZENE | 0.12 | U | | 0.12 | U | | 0.6 | U | | 0.12 | U | |
| N-PROPYLBENZENE | 0.14 | U | | 0.14 | U | | 9.7 | | | 0.14 | U | |
| O-XYLENE | 0.14 | U | | 0.14 | U | | 22 | | | 0.14 | U | |
| SEC-BUTYLBENZENE | 0.13 | U | | 0.13 | U | | 0.75 | J | P | 0.13 | U | |
| SILANOL, TRIMETHYL- | 3.5 | R | Z2 | 1.2 | R | Z2 | | | | 2.1 | R | Z2 |

| PROJ_NO: 04021 | NSAMPLE | GSP-MW5-043012 | | | GSP-MW6-043012 | | | MT-MW02S-043012 | | | TB-043012 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-10808-1 | LAB_ID | 240-10808-2 | | | 240-10808-3 | | | 240-10808-4 | | | 240-10808-1 | | |
| FRACTION: OV | SAMP_DATE | 4/30/2012 | | | 4/30/2012 | | | 4/30/2012 | | | 4/30/2012 | | |
| MEDIA: WATER | QC_TYPE | NM | | | NM | | | NM | | | NM | | |
| | UNITS | UG/L | | | UG/L | | | UG/L | | | UG/L | | |
| | PCT_SOLIDS | 0.0 | | | 0.0 | | | 0.0 | | | 0.0 | | |
| | DUP_OF | | | | | | | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| STYRENE | | 0.11 | U | | 0.11 | U | | 0.55 | U | | 0.11 | U | |
| TERT-AMYL METHYL ETHER | | 0.067 | U | | 0.067 | U | | 0.34 | U | | 0.067 | U | |
| TERT-BUTYLBENZENE | | 0.13 | U | | 0.13 | U | | 0.65 | U | | 0.13 | U | |
| TERTIARY-BUTYL ALCOHOL | | 3.9 | UR | C | 3.9 | UR | C | 20 | UR | C | 3.9 | UR | C |
| TETRACHLOROETHENE | | 0.29 | U | | 0.29 | U | | 1.5 | U | | 0.29 | U | |
| TOLUENE | | 0.13 | U | | 0.13 | U | | 0.65 | U | | 0.13 | U | |
| TOTAL XYLENES | | 0.28 | U | | 0.28 | U | | 72 | | | 0.28 | U | |
| TRANS-1,2-DICHLOROETHENE | | 0.19 | U | | 0.19 | U | | 0.95 | U | | 0.19 | U | |
| TRANS-1,3-DICHLOROPROPENE | | 0.19 | U | | 0.19 | U | | 0.95 | U | | 0.19 | U | |
| TRICHLOROETHENE | | 0.17 | U | | 0.17 | U | | 0.85 | U | | 0.17 | U | |
| TRICHLOROFLUOROMETHANE | | 0.21 | U | | 0.21 | U | | 1.1 | U | | 0.21 | U | |
| VINYL ACETATE | | 0.19 | UR | C | 0.19 | UR | C | 0.95 | UR | C | 0.19 | UR | C |
| VINYL CHLORIDE | | 0.22 | U | | 0.22 | U | | 1.1 | U | | 0.22 | U | |

| PROJ_NO: 04021 | NSAMPLE | GSP-MW5-043012 | | | GSP-MW6-043012 | | | MT-MW02S-043012 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-10808-1 | LAB_ID | 240-10808-2 | | | 240-10808-3 | | | 240-10808-4 | | |
| FRACTION: OS | SAMP_DATE | 4/30/2012 | | | 4/30/2012 | | | 4/30/2012 | | |
| MEDIA: WATER | QC_TYPE | NM | | | NM | | | NM | | |
| | UNITS | UG/L | | | UG/L | | | UG/L | | |
| | PCT_SOLIDS | 0.0 | | | 0.0 | | | 0.0 | | |
| | DUP_OF | | | | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| 1,4-DIOXANE | | 0.47 | U | | 0.47 | U | | 0.49 | U | |

| PROJ_NO: 04021 | NSAMPLE | GSP-MW5-043012 | | | GSP-MW6-043012 | | | MT-MW02S-043012 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-10808-1 | LAB_ID | 240-10808-2 | | | 240-10808-3 | | | 240-10808-4 | | |
| FRACTION: PET | SAMP_DATE | 4/30/2012 | | | 4/30/2012 | | | 4/30/2012 | | |
| MEDIA: WATER | QC_TYPE | NM | | | NM | | | NM | | |
| | UNITS | UG/L | | | UG/L | | | UG/L | | |
| | PCT_SOLIDS | 0.0 | | | 0.0 | | | 0.0 | | |
| | DUP_OF | | | | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| TPH (C06-C10) | | 37 | B | A | 41 | B | A | 1400 | | |
| TPH (C10-C32) | | 1200 | | | 490 | | | 3700 | | |

## Appendix B

Results as Reported by the Laboratory

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-10808-1

SDG No.:

Client Sample ID: GSP-MW5-043012 | Lab Sample ID: 240-10808-2

Matrix: Water | Lab File ID: UXM5697.D

Analysis Method: 8260C | Date Collected: 04/30/2012 10:30

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2012 12:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43549 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.23 |
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 1.0 | 0.22 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.18 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0 | U | 1.0 | 0.28 |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.15 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.19 |
| 563-58-6 | 1,1-Dichloropropene | 1.0 | U | 1.0 | 0.13 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 1.0 | 0.17 |
| 96-18-4 | 1,2,3-Trichloropropane | 1.0 | U | 1.0 | 0.43 |
| 526-73-8 | 1,2,3-Trimethylbenzene | 5.0 | U | 5.0 | 0.0059 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.15 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.12 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 2.0 | U | 2.0 | 0.67 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.13 |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.22 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.18 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.14 |
| 142-28-9 | 1,3-Dichloropropane | 1.0 | U | 1.0 | 0.16 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.13 |
| 594-20-7 | 2,2-Dichloropropane | 1.0 | U | 1.0 | 0.13 |
| 110-75-8 | 2-Chloroethyl vinyl ether | 10 | U | 10 | 0.99 |
| 95-49-8 | 2-Chlorotoluene | 1.0 | U | 1.0 | 0.11 |
| 591-78-6 | 2-Hexanone | 10 | U | 10 | 0.41 |
| 108-86-1 | Bromobenzene | 1.0 | U | 1.0 | 0.13 |
| 74-97-5 | Bromochloromethane | 1.0 | U | 1.0 | 0.29 |
| 106-43-4 | 4-Chlorotoluene | 1.0 | U | 1.0 | 0.18 |
| 99-87-6 | p-Isopropyltoluene | 1.0 | U | 1.0 | 0.12 |
| 67-64-1 | Acetone | 10 | U | 10 | 1.1 |
| 71-43-2 | Benzene | 1.0 | U | 1.0 | 0.13 |
| 75-25-2 | Bromoform | 1.0 | U | 1.0 | 0.64 |
| 74-83-9 | Bromomethane | 1.0 | U | 1.0 | 0.41 |
| 75-15-0 | Carbon disulfide | 0.13 | J | 1.0 | 0.13 |
| 56-23-5 | Carbon tetrachloride | 1.9 | | 1.0 | 0.13 |
| 108-90-7 | Chlorobenzene | 1.0 | U | 1.0 | 0.15 |
| 75-00-3 | Chloroethane | 1.0 | U | 1.0 | 0.29 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-10808-1

SDG No.:

Client Sample ID: GSP-MW5-043012 | Lab Sample ID: 240-10808-2

Matrix: Water | Lab File ID: UXM5697.D

Analysis Method: 8260C | Date Collected: 04/30/2012 10:30

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2012 12:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43549 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 67-66-3 | Chloroform | 0.68 | J | 1.0 | 0.16 |
| 74-87-3 | Chloromethane | 1.0 | U | 1.0 | 0.30 |
| 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.17 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.14 |
| 87-68-3 | Hexachlorobutadiene | 1.0 | U | 1.0 | 0.30 |
| 74-95-3 | Dibromomethane | 1.0 | U | 1.0 | 0.28 |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 1.0 | 0.15 |
| 75-71-8 | Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.31 |
| 100-41-4 | Ethylbenzene | 1.0 | U | 1.0 | 0.17 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.24 |
| 108-20-3 | Diisopropyl ether | 10 | U | 10 | 1.5 |
| 91-20-3 | Naphthalene | 1.0 | U | 1.0 | 0.24 |
| 179601-23-1 | m-Xylene & p-Xylene | 2.0 | U | 2.0 | 0.24 |
| 104-51-8 | n-Butylbenzene | 1.0 | U | 1.0 | 0.12 |
| 98-82-8 | Isopropylbenzene | 1.0 | U | 1.0 | 0.13 |
| 103-65-1 | n-Propylbenzene | 1.0 | U | 1.0 | 0.14 |
| 78-93-3 | 2-Butanone | 10 | U | 10 | 0.57 |
| 108-10-1 | 4-Methyl-2-pentanone | 10 | U | 10 | 0.32 |
| 135-98-8 | sec-Butylbenzene | 1.0 | U | 1.0 | 0.13 |
| 1634-04-4 | Methyl tert-butyl ether | 5.0 | U | 5.0 | 0.17 |
| 994-05-8 | Tert-amyl-methyl ether (TAME) | 5.0 | U | 5.0 | 0.067 |
| 75-09-2 | Methylene Chloride | 1.0 | U | 1.0 | 0.33 |
| 95-47-6 | o-Xylene | 1.0 | U | 1.0 | 0.14 |
| 100-42-5 | Styrene | 1.0 | U | 1.0 | 0.11 |
| 637-92-3 | Ethyl-t-butyl ether (ETBE) | 5.0 | U | 5.0 | 0.11 |
| 98-06-6 | tert-Butylbenzene | 1.0 | U | 1.0 | 0.13 |
| 127-18-4 | Tetrachloroethene | 1.0 | U | 1.0 | 0.29 |
| 108-88-3 | Toluene | 1.0 | U | 1.0 | 0.13 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.19 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.19 |
| 79-01-6 | Trichloroethene | 1.0 | U | 1.0 | 0.17 |
| 75-69-4 | Trichlorofluoromethane | 1.0 | U | 1.0 | 0.21 |
| 108-05-4 | Vinyl acetate | 2.0 | U | 2.0 | 0.19 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 1.0 | 0.22 |
| 75-65-0 | tert-Butyl alcohol | 50 | U | 50 | 3.9 |
| 1330-20-7 | Xylenes, Total | 2.0 | U | 2.0 | 0.28 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-10808-1

SDG No.:

Client Sample ID: GSP-MW5-043012  Lab Sample ID: 240-10808-2

Matrix: Water  Lab File ID: UXM5697.D

Analysis Method: 8260C  Date Collected: 04/30/2012 10:30

Sample wt/vol: 5(mL)  Date Analyzed: 05/10/2012 12:47

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 43549  Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | 1.0 | U | 1.0 | 0.18 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 102 | | 63-129 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 98 | | 66-117 |
| 2037-26-5 | Toluene-d8 (Surr) | 95 | | 74-115 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 102 | | 75-121 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton  Job No.: 240-10808-1

SDG No.:

Client Sample ID: GSP-MW5-043012  Lab Sample ID: 240-10808-2

Matrix: Water  Lab File ID: UXM5697.D

Analysis Method: 8260C  Date Collected: 04/30/2012 10:30

Sample wt/vol: 5(mL)  Date Analyzed: 05/10/2012 12:47

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 43549  Units: ug/L

Number TICs Found: 1  TIC Result Total: 3.5

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| 1066-40-6 | Silanol, trimethyl- | 4.60 | 3.5 | T J N |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-10808-1

SDG No.:

Client Sample ID: GSP-MW6-043012 | Lab Sample ID: 240-10808-3

Matrix: Water | Lab File ID: UXM5698.D

Analysis Method: 8260C | Date Collected: 04/30/2012 11:45

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2012 13:10

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43549 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.23 |
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 1.0 | 0.22 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.18 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0 | U | 1.0 | 0.28 |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.15 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.19 |
| 563-58-6 | 1,1-Dichloropropene | 1.0 | U | 1.0 | 0.13 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 1.0 | 0.17 |
| 96-18-4 | 1,2,3-Trichloropropane | 1.0 | U | 1.0 | 0.43 |
| 526-73-8 | 1,2,3-Trimethylbenzene | 5.0 | U | 5.0 | 0.0059 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.15 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.12 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 2.0 | U | 2.0 | 0.67 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.13 |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.22 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.18 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.14 |
| 142-28-9 | 1,3-Dichloropropane | 1.0 | U | 1.0 | 0.16 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.13 |
| 594-20-7 | 2,2-Dichloropropane | 1.0 | U | 1.0 | 0.13 |
| 110-75-8 | 2-Chloroethyl vinyl ether | 10 | U | 10 | 0.99 |
| 95-49-8 | 2-Chlorotoluene | 1.0 | U | 1.0 | 0.11 |
| 591-78-6 | 2-Hexanone | 10 | U | 10 | 0.41 |
| 108-86-1 | Bromobenzene | 1.0 | U | 1.0 | 0.13 |
| 74-97-5 | Bromochloromethane | 1.0 | U | 1.0 | 0.29 |
| 106-43-4 | 4-Chlorotoluene | 1.0 | U | 1.0 | 0.18 |
| 99-87-6 | p-Isopropyltoluene | 1.0 | U | 1.0 | 0.12 |
| 67-64-1 | Acetone | 10 | U | 10 | 1.1 |
| 71-43-2 | Benzene | 1.0 | U | 1.0 | 0.13 |
| 75-25-2 | Bromoform | 1.0 | U | 1.0 | 0.64 |
| 74-83-9 | Bromomethane | 1.0 | U | 1.0 | 0.41 |
| 75-15-0 | Carbon disulfide | 1.0 | U | 1.0 | 0.13 |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 1.0 | 0.13 |
| 108-90-7 | Chlorobenzene | 1.0 | U | 1.0 | 0.15 |
| 75-00-3 | Chloroethane | 1.0 | U | 1.0 | 0.29 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-10808-1

SDG No.:

Client Sample ID: GSP-MW6-043012 | Lab Sample ID: 240-10808-3

Matrix: Water | Lab File ID: UXM5698.D

Analysis Method: 8260C | Date Collected: 04/30/2012 11:45

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2012 13:10

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43549 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 67-66-3 | Chloroform | 1.0 | U | 1.0 | 0.16 |
| 74-87-3 | Chloromethane | 1.0 | U | 1.0 | 0.30 |
| 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.17 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.14 |
| 87-68-3 | Hexachlorobutadiene | 1.0 | U | 1.0 | 0.30 |
| 74-95-3 | Dibromomethane | 1.0 | U | 1.0 | 0.28 |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 1.0 | 0.15 |
| 75-71-8 | Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.31 |
| 100-41-4 | Ethylbenzene | 1.0 | U | 1.0 | 0.17 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.24 |
| 108-20-3 | Diisopropyl ether | 10 | U | 10 | 1.5 |
| 91-20-3 | Naphthalene | 1.0 | U | 1.0 | 0.24 |
| 179601-23-1 | m-Xylene & p-Xylene | 2.0 | U | 2.0 | 0.24 |
| 104-51-8 | n-Butylbenzene | 1.0 | U | 1.0 | 0.12 |
| 98-82-8 | Isopropylbenzene | 1.0 | U | 1.0 | 0.13 |
| 103-65-1 | n-Propylbenzene | 1.0 | U | 1.0 | 0.14 |
| 78-93-3 | 2-Butanone | 10 | U | 10 | 0.57 |
| 108-10-1 | 4-Methyl-2-pentanone | 10 | U | 10 | 0.32 |
| 135-98-8 | sec-Butylbenzene | 1.0 | U | 1.0 | 0.13 |
| 1634-04-4 | Methyl tert-butyl ether | 5.0 | U | 5.0 | 0.17 |
| 994-05-8 | Tert-amyl-methyl ether (TAME) | 5.0 | U | 5.0 | 0.067 |
| 75-09-2 | Methylene Chloride | 1.0 | U | 1.0 | 0.33 |
| 95-47-6 | o-Xylene | 1.0 | U | 1.0 | 0.14 |
| 100-42-5 | Styrene | 1.0 | U | 1.0 | 0.11 |
| 637-92-3 | Ethyl-t-butyl ether (ETBE) | 5.0 | U | 5.0 | 0.11 |
| 98-06-6 | tert-Butylbenzene | 1.0 | U | 1.0 | 0.13 |
| 127-18-4 | Tetrachloroethene | 1.0 | U | 1.0 | 0.29 |
| 108-88-3 | Toluene | 1.0 | U | 1.0 | 0.13 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.19 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.19 |
| 79-01-6 | Trichloroethene | 1.0 | U | 1.0 | 0.17 |
| 75-69-4 | Trichlorofluoromethane | 1.0 | U | 1.0 | 0.21 |
| 108-05-4 | Vinyl acetate | 2.0 | U | 2.0 | 0.19 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 1.0 | 0.22 |
| 75-65-0 | tert-Butyl alcohol | 50 | U | 50 | 3.9 |
| 1330-20-7 | Xylenes, Total | 2.0 | U | 2.0 | 0.28 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-10808-1

SDG No.:

Client Sample ID: GSP-MW6-043012  Lab Sample ID: 240-10808-3

Matrix: Water  Lab File ID: UXM5698.D

Analysis Method: 8260C  Date Collected: 04/30/2012 11:45

Sample wt/vol: 5(mL)  Date Analyzed: 05/10/2012 13:10

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 43549  Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | 1.0 | U | 1.0 | 0.18 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 96 | | 63-129 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 100 | | 66-117 |
| 2037-26-5 | Toluene-d8 (Surr) | 98 | | 74-115 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 95 | | 75-121 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton | Job No.: 240-10808-1

SDG No.:

Client Sample ID: GSP-MW6-043012 | Lab Sample ID: 240-10808-3

Matrix: Water | Lab File ID: UXM5698.D

Analysis Method: 8260C | Date Collected: 04/30/2012 11:45

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2012 13:10

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43549 | Units: ug/L

Number TICs Found: 1 | TIC Result Total: 1.2

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| 1066-40-6 | Silanol, trimethyl- | 4.60 | 1.2 | T J N |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-10808-1

SDG No.:

Client Sample ID: MT-MW02S-043012 | Lab Sample ID: 240-10808-4

Matrix: Water | Lab File ID: UXM5699.D

Analysis Method: 8260C | Date Collected: 04/30/2012 13:05

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2012 13:33

Soil Aliquot Vol: | Dilution Factor: 5

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43549 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 5.0 | U | 5.0 | 1.2 |
| 71-55-6 | 1,1,1-Trichloroethane | 5.0 | U | 5.0 | 1.1 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5.0 | U | 5.0 | 0.90 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 5.0 | U | 5.0 | 1.4 |
| 75-34-3 | 1,1-Dichloroethane | 5.0 | U | 5.0 | 0.75 |
| 75-35-4 | 1,1-Dichloroethene | 5.0 | U | 5.0 | 0.95 |
| 563-58-6 | 1,1-Dichloropropene | 5.0 | U | 5.0 | 0.65 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 5.0 | U | 5.0 | 0.85 |
| 96-18-4 | 1,2,3-Trichloropropane | 5.0 | U | 5.0 | 2.2 |
| 526-73-8 | 1,2,3-Trimethylbenzene | 2.4 | J | 25 | 0.030 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 5.0 | U | 5.0 | 0.75 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 9.2 | | 5.0 | 0.60 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 10 | U | 10 | 3.4 |
| 95-50-1 | 1,2-Dichlorobenzene | 5.0 | U | 5.0 | 0.65 |
| 107-06-2 | 1,2-Dichloroethane | 3.8 | J | 5.0 | 1.1 |
| 78-87-5 | 1,2-Dichloropropane | 5.0 | U | 5.0 | 0.90 |
| 541-73-1 | 1,3-Dichlorobenzene | 5.0 | U | 5.0 | 0.70 |
| 142-28-9 | 1,3-Dichloropropane | 5.0 | U | 5.0 | 0.80 |
| 106-46-7 | 1,4-Dichlorobenzene | 5.0 | U | 5.0 | 0.65 |
| 594-20-7 | 2,2-Dichloropropane | 5.0 | U | 5.0 | 0.65 |
| 110-75-8 | 2-Chloroethyl vinyl ether | 50 | U | 50 | 5.0 |
| 95-49-8 | 2-Chlorotoluene | 5.0 | U | 5.0 | 0.55 |
| 591-78-6 | 2-Hexanone | 50 | U | 50 | 2.1 |
| 108-86-1 | Bromobenzene | 5.0 | U | 5.0 | 0.65 |
| 74-97-5 | Bromochloromethane | 5.0 | U | 5.0 | 1.5 |
| 106-43-4 | 4-Chlorotoluene | 5.0 | U | 5.0 | 0.90 |
| 99-87-6 | p-Isopropyltoluene | 1.6 | J | 5.0 | 0.60 |
| 67-64-1 | Acetone | 90 | | 50 | 5.5 |
| 71-43-2 | Benzene | 87 | | 5.0 | 0.65 |
| 75-25-2 | Bromoform | 5.0 | U | 5.0 | 3.2 |
| 74-83-9 | Bromomethane | 5.0 | U | 5.0 | 2.1 |
| 75-15-0 | Carbon disulfide | 5.0 | U | 5.0 | 0.65 |
| 56-23-5 | Carbon tetrachloride | 5.0 | U | 5.0 | 0.65 |
| 108-90-7 | Chlorobenzene | 5.0 | U | 5.0 | 0.75 |
| 75-00-3 | Chloroethane | 5.0 | U | 5.0 | 1.5 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-10808-1

SDG No.:

Client Sample ID: MT-MW02S-043012 | Lab Sample ID: 240-10808-4

Matrix: Water | Lab File ID: UXM5699.D

Analysis Method: 8260C | Date Collected: 04/30/2012 13:05

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2012 13:33

Soil Aliquot Vol: | Dilution Factor: 5

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43549 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 67-66-3 | Chloroform | 5.0 | U | 5.0 | 0.80 |
| 74-87-3 | Chloromethane | 5.0 | U | 5.0 | 1.5 |
| 156-59-2 | cis-1,2-Dichloroethene | 4.8 | J | 5.0 | 0.85 |
| 10061-01-5 | cis-1,3-Dichloropropene | 5.0 | U | 5.0 | 0.70 |
| 87-68-3 | Hexachlorobutadiene | 5.0 | U | 5.0 | 1.5 |
| 74-95-3 | Dibromomethane | 5.0 | U | 5.0 | 1.4 |
| 75-27-4 | Bromodichloromethane | 5.0 | U | 5.0 | 0.75 |
| 75-71-8 | Dichlorodifluoromethane | 5.0 | U | 5.0 | 1.6 |
| 100-41-4 | Ethylbenzene | 180 | | 5.0 | 0.85 |
| 106-93-4 | 1,2-Dibromoethane | 5.0 | U | 5.0 | 1.2 |
| 108-20-3 | Diisopropyl ether | 50 | U | 50 | 7.5 |
| 91-20-3 | Naphthalene | 5.0 | U | 5.0 | 1.2 |
| 179601-23-1 | m-Xylene & p-Xylene | 50 | | 10 | 1.2 |
| 104-51-8 | n-Butylbenzene | 5.0 | U | 5.0 | 0.60 |
| 98-82-8 | Isopropylbenzene | 31 | | 5.0 | 0.65 |
| 103-65-1 | n-Propylbenzene | 9.7 | | 5.0 | 0.70 |
| 78-93-3 | 2-Butanone | 50 | U | 50 | 2.9 |
| 108-10-1 | 4-Methyl-2-pentanone | 2.5 | J | 50 | 1.6 |
| 135-98-8 | sec-Butylbenzene | 0.75 | J | 5.0 | 0.65 |
| 1634-04-4 | Methyl tert-butyl ether | 25 | U | 25 | 0.85 |
| 994-05-8 | Tert-amyl-methyl ether (TAME) | 25 | U | 25 | 0.34 |
| 75-09-2 | Methylene Chloride | 5.0 | U | 5.0 | 1.7 |
| 95-47-6 | o-Xylene | 22 | | 5.0 | 0.70 |
| 100-42-5 | Styrene | 5.0 | U | 5.0 | 0.55 |
| 637-92-3 | Ethyl-t-butyl ether (ETBE) | 25 | U | 25 | 0.55 |
| 98-06-6 | tert-Butylbenzene | 5.0 | U | 5.0 | 0.65 |
| 127-18-4 | Tetrachloroethene | 5.0 | U | 5.0 | 1.5 |
| 108-88-3 | Toluene | 5.0 | U | 5.0 | 0.65 |
| 156-60-5 | trans-1,2-Dichloroethene | 5.0 | U | 5.0 | 0.95 |
| 10061-02-6 | trans-1,3-Dichloropropene | 5.0 | U | 5.0 | 0.95 |
| 79-01-6 | Trichloroethene | 5.0 | U | 5.0 | 0.85 |
| 75-69-4 | Trichlorofluoromethane | 5.0 | U | 5.0 | 1.1 |
| 108-05-4 | Vinyl acetate | 10 | U | 10 | 0.95 |
| 75-01-4 | Vinyl chloride | 5.0 | U | 5.0 | 1.1 |
| 75-65-0 | tert-Butyl alcohol | 250 | U | 250 | 20 |
| 1330-20-7 | Xylenes, Total | 72 | | 10 | 1.4 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-10808-1

SDG No.:

Client Sample ID: MT-MW02S-043012  Lab Sample ID: 240-10808-4

Matrix: Water  Lab File ID: UXM5699.D

Analysis Method: 8260C  Date Collected: 04/30/2012 13:05

Sample wt/vol: 5(mL)  Date Analyzed: 05/10/2012 13:33

Soil Aliquot Vol:  Dilution Factor: 5

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 43549  Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | 5.0 | U | 5.0 | 0.90 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 98 | | 63-129 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 105 | | 66-117 |
| 2037-26-5 | Toluene-d8 (Surr) | 95 | | 74-115 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 100 | | 75-121 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton | Job No.: 240-10808-1

SDG No.:

Client Sample ID: MT-MW02S-043012 | Lab Sample ID: 240-10808-4

Matrix: Water | Lab File ID: UXM5699.D

Analysis Method: 8260C | Date Collected: 04/30/2012 13:05

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2012 13:33

Soil Aliquot Vol: | Dilution Factor: 5

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43549 | Units: ug/L

Number TICs Found: 10 | TIC Result Total: 172.5

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| 598-61-8 | Cyclobutane, methyl- | 3.67 | 9.8 | T J N |
| 96-37-7 | Cyclopentane, methyl- | 4.63 | 19 | T J N |
| 110-82-7 | Cyclohexane | 5.22 | 45 | |
| 565-80-0 | 3-Pentanone, 2,4-dimethyl- | 7.67 | 12 | T J N |
| 3970-62-5 | 3-Pentanol, 2,2-dimethyl- | 8.11 | 6.5 | T J N |
| 815-57-6 | 2,4-Pentanedione, 3-methyl- | 8.23 | 7.8 | T J N |
| 620-14-4 | Benzene, 1-ethyl-3-methyl- | 9.84 | 10 | T J N |
| 108-67-8 | 1,3,5-Trimethylbenzene | 9.92 | 47 | |
| 611-14-3 | Benzene, 1-ethyl-2-methyl- | 10.13 | 7.3 | T J N |
| 496-11-7 | Indane | 10.91 | 8.1 | T J N |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-10808-1

SDG No.:

Client Sample ID: TB-043012 | Lab Sample ID: 240-10808-1

Matrix: Water | Lab File ID: UXM5696.D

Analysis Method: 8260C | Date Collected: 04/30/2012 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2012 12:25

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43549 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.23 |
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 1.0 | 0.22 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.18 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0 | U | 1.0 | 0.28 |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.15 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.19 |
| 563-58-6 | 1,1-Dichloropropene | 1.0 | U | 1.0 | 0.13 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 1.0 | 0.17 |
| 96-18-4 | 1,2,3-Trichloropropane | 1.0 | U | 1.0 | 0.43 |
| 526-73-8 | 1,2,3-Trimethylbenzene | 5.0 | U | 5.0 | 0.0059 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.15 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.12 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 2.0 | U | 2.0 | 0.67 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.13 |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.22 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.18 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.14 |
| 142-28-9 | 1,3-Dichloropropane | 1.0 | U | 1.0 | 0.16 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.13 |
| 594-20-7 | 2,2-Dichloropropane | 1.0 | U | 1.0 | 0.13 |
| 110-75-8 | 2-Chloroethyl vinyl ether | 10 | U | 10 | 0.99 |
| 95-49-8 | 2-Chlorotoluene | 1.0 | U | 1.0 | 0.11 |
| 591-78-6 | 2-Hexanone | 10 | U | 10 | 0.41 |
| 108-86-1 | Bromobenzene | 1.0 | U | 1.0 | 0.13 |
| 74-97-5 | Bromochloromethane | 1.0 | U | 1.0 | 0.29 |
| 106-43-4 | 4-Chlorotoluene | 1.0 | U | 1.0 | 0.18 |
| 99-87-6 | p-Isopropyltoluene | 1.0 | U | 1.0 | 0.12 |
| 67-64-1 | Acetone | 10 | U | 10 | 1.1 |
| 71-43-2 | Benzene | 1.0 | U | 1.0 | 0.13 |
| 75-25-2 | Bromoform | 1.0 | U | 1.0 | 0.64 |
| 74-83-9 | Bromomethane | 1.0 | U | 1.0 | 0.41 |
| 75-15-0 | Carbon disulfide | 1.0 | U | 1.0 | 0.13 |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 1.0 | 0.13 |
| 108-90-7 | Chlorobenzene | 1.0 | U | 1.0 | 0.15 |
| 75-00-3 | Chloroethane | 1.0 | U | 1.0 | 0.29 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-10808-1

SDG No.:

Client Sample ID: TB-043012  Lab Sample ID: 240-10808-1

Matrix: Water  Lab File ID: UXM5696.D

Analysis Method: 8260C  Date Collected: 04/30/2012 00:00

Sample wt/vol: 5(mL)  Date Analyzed: 05/10/2012 12:25

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 43549  Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 67-66-3 | Chloroform | 1.0 | U | 1.0 | 0.16 |
| 74-87-3 | Chloromethane | 1.0 | U | 1.0 | 0.30 |
| 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.17 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.14 |
| 87-68-3 | Hexachlorobutadiene | 1.0 | U | 1.0 | 0.30 |
| 74-95-3 | Dibromomethane | 1.0 | U | 1.0 | 0.28 |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 1.0 | 0.15 |
| 75-71-8 | Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.31 |
| 100-41-4 | Ethylbenzene | 1.0 | U | 1.0 | 0.17 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.24 |
| 108-20-3 | Diisopropyl ether | 10 | U | 10 | 1.5 |
| 91-20-3 | Naphthalene | 1.0 | U | 1.0 | 0.24 |
| 179601-23-1 | m-Xylene & p-Xylene | 2.0 | U | 2.0 | 0.24 |
| 104-51-8 | n-Butylbenzene | 1.0 | U | 1.0 | 0.12 |
| 98-82-8 | Isopropylbenzene | 1.0 | U | 1.0 | 0.13 |
| 103-65-1 | n-Propylbenzene | 1.0 | U | 1.0 | 0.14 |
| 78-93-3 | 2-Butanone | 10 | U | 10 | 0.57 |
| 108-10-1 | 4-Methyl-2-pentanone | 10 | U | 10 | 0.32 |
| 135-98-8 | sec-Butylbenzene | 1.0 | U | 1.0 | 0.13 |
| 1634-04-4 | Methyl tert-butyl ether | 5.0 | U | 5.0 | 0.17 |
| 994-05-8 | Tert-amyl-methyl ether (TAME) | 5.0 | U | 5.0 | 0.067 |
| 75-09-2 | Methylene Chloride | 1.0 | U | 1.0 | 0.33 |
| 95-47-6 | o-Xylene | 1.0 | U | 1.0 | 0.14 |
| 100-42-5 | Styrene | 1.0 | U | 1.0 | 0.11 |
| 637-92-3 | Ethyl-t-butyl ether (ETBE) | 5.0 | U | 5.0 | 0.11 |
| 98-06-6 | tert-Butylbenzene | 1.0 | U | 1.0 | 0.13 |
| 127-18-4 | Tetrachloroethene | 1.0 | U | 1.0 | 0.29 |
| 108-88-3 | Toluene | 1.0 | U | 1.0 | 0.13 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.19 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.19 |
| 79-01-6 | Trichloroethene | 1.0 | U | 1.0 | 0.17 |
| 75-69-4 | Trichlorofluoromethane | 1.0 | U | 1.0 | 0.21 |
| 108-05-4 | Vinyl acetate | 2.0 | U | 2.0 | 0.19 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 1.0 | 0.22 |
| 75-65-0 | tert-Butyl alcohol | 50 | U | 50 | 3.9 |
| 1330-20-7 | Xylenes, Total | 2.0 | U | 2.0 | 0.28 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-10808-1

SDG No.:

Client Sample ID: TB-043012 | Lab Sample ID: 240-10808-1

Matrix: Water | Lab File ID: UXM5696.D

Analysis Method: 8260C | Date Collected: 04/30/2012 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2012 12:25

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43549 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | 1.0 | U | 1.0 | 0.18 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 97 | | 63-129 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 97 | | 66-117 |
| 2037-26-5 | Toluene-d8 (Surr) | 96 | | 74-115 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 91 | | 75-121 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton | Job No.: 240-10808-1

SDG No.:

Client Sample ID: TB-043012 | Lab Sample ID: 240-10808-1

Matrix: Water | Lab File ID: UXM5696.D

Analysis Method: 8260C | Date Collected: 04/30/2012 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2012 12:25

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43549 | Units: ug/L

Number TICs Found: 1 | TIC Result Total: 2.1

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| 1066-40-6 | Silanol, trimethyl- | 4.60 | 2.1 | T J N |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-10808-1

SDG No.:

Client Sample ID: GSP-MW5-043012 | Lab Sample ID: 240-10808-2

Matrix: Water | Lab File ID: 20508035.D

Analysis Method: 8270C | Date Collected: 04/30/2012 10:30

Extract. Method: 3520C | Date Extracted: 05/05/2012 09:23

Sample wt/vol: 1050(mL) | Date Analyzed: 05/08/2012 19:16

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 43126 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 123-91-1 | 1,4-Dioxane | 0.95 | U | 0.95 | 0.47 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 321-60-8 | 2-Fluorobiphenyl (Surr) | 57 | | 28-110 |
| 367-12-4 | 2-Fluorophenol (Surr) | 57 | | 10-110 |
| 118-79-6 | 2,4,6-Tribromophenol (Surr) | 82 | | 22-120 |
| 4165-60-0 | Nitrobenzene-d5 (Surr) | 52 | | 27-111 |
| 4165-62-2 | Phenol-d5 (Surr) | 60 | | 10-110 |
| 1718-51-0 | Terphenyl-d14 (Surr) | 66 | | 37-119 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-10808-1

SDG No.:

Client Sample ID: GSP-MW6-043012 | Lab Sample ID: 240-10808-3

Matrix: Water | Lab File ID: 20508036.D

Analysis Method: 8270C | Date Collected: 04/30/2012 11:45

Extract. Method: 3520C | Date Extracted: 05/05/2012 09:23

Sample wt/vol: 1050(mL) | Date Analyzed: 05/08/2012 19:35

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 43126 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 123-91-1 | 1,4-Dioxane | 0.95 | U | 0.95 | 0.47 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 321-60-8 | 2-Fluorobiphenyl (Surr) | 56 | | 28-110 |
| 367-12-4 | 2-Fluorophenol (Surr) | 48 | | 10-110 |
| 118-79-6 | 2,4,6-Tribromophenol (Surr) | 84 | | 22-120 |
| 4165-60-0 | Nitrobenzene-d5 (Surr) | 50 | | 27-111 |
| 4165-62-2 | Phenol-d5 (Surr) | 60 | | 10-110 |
| 1718-51-0 | Terphenyl-d14 (Surr) | 64 | | 37-119 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-10808-1

SDG No.:

Client Sample ID: MT-MW02S-043012 | Lab Sample ID: 240-10808-4

Matrix: Water | Lab File ID: 20508037.D

Analysis Method: 8270C | Date Collected: 04/30/2012 13:05

Extract. Method: 3520C | Date Extracted: 05/05/2012 09:23

Sample wt/vol: 1010(mL) | Date Analyzed: 05/08/2012 19:53

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 43126 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 123-91-1 | 1,4-Dioxane | 0.99 | U | 0.99 | 0.49 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 321-60-8 | 2-Fluorobiphenyl (Surr) | 51 | | 28-110 |
| 367-12-4 | 2-Fluorophenol (Surr) | 56 | | 10-110 |
| 118-79-6 | 2,4,6-Tribromophenol (Surr) | 77 | | 22-120 |
| 4165-60-0 | Nitrobenzene-d5 (Surr) | 64 | | 27-111 |
| 4165-62-2 | Phenol-d5 (Surr) | 64 | | 10-110 |
| 1718-51-0 | Terphenyl-d14 (Surr) | 59 | | 37-119 |

FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-10808-1

SDG No.:

Client Sample ID: GSP-MW5-043012  Lab Sample ID: 240-10808-2

Matrix: Water  Lab File ID: YF050708.D

Analysis Method: 8015B  Date Collected: 04/30/2012 10:30

Sample wt/vol: 5(mL)  Date Analyzed: 05/07/2012 14:40

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-VRX  ID: 0.45(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 42995  Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 8006-61-9 | Total Petroleum Hydrocarbons (C6-C10) | 37 | J B | 100 | 25 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 98-08-8 | Trifluorotoluene (Surr) | 60 | | 10-150 |

FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Client Sample ID: GSP-MW6-043012 Lab Sample ID: 240-10808-3

Matrix: Water Lab File ID: YF050711.D

Analysis Method: 8015B Date Collected: 04/30/2012 11:45

Sample wt/vol: 5(mL) Date Analyzed: 05/07/2012 16:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VRX ID: 0.45(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 42995 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 8006-61-9 | Total Petroleum Hydrocarbons (C6-C10) | 41 | J B | 100 | 25 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 98-08-8 | Trifluorotoluene (Surr) | 56 | | 10-150 |

FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-10808-1

SDG No.:

Client Sample ID: MT-MW02S-043012 | Lab Sample ID: 240-10808-4

Matrix: Water | Lab File ID: YF050712.D

Analysis Method: 8015B | Date Collected: 04/30/2012 13:05

Sample wt/vol: 5(mL) | Date Analyzed: 05/07/2012 17:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VRX ID: 0.45(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 42995 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 8006-61-9 | Total Petroleum Hydrocarbons (C6-C10) | 1400 | B | 100 | 25 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 98-08-8 | Trifluorotoluene (Surr) | 94 | | 10-150 |

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Client Sample ID: GSP-MW5-043012 Lab Sample ID: 240-10808-2

Matrix: Water Lab File ID: P5F05075.D

Analysis Method: 8015B Date Collected: 04/30/2012 10:30

Extraction Method: 3510C Date Extracted: 05/04/2012 12:16

Sample wt/vol: 1050(mL) Date Analyzed: 05/07/2012 10:16

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 42964 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| STL00141 | Total Petroleum Hydrocarbons (C10-C32) | 1200 | | 480 | 230 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 111-84-2 | n-Nonane | 69 | | 10-110 |

FORM I

DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Client Sample ID: GSP-MW6-043012 Lab Sample ID: 240-10808-3

Matrix: Water Lab File ID: P5F05076.D

Analysis Method: 8015B Date Collected: 04/30/2012 11:45

Extraction Method: 3510C Date Extracted: 05/04/2012 12:16

Sample wt/vol: 1050(mL) Date Analyzed: 05/07/2012 10:46

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 42964 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| STL00141 | Total Petroleum Hydrocarbons (C10-C32) | 490 | | 480 | 230 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 111-84-2 | n-Nonane | 67 | | 10-110 |

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-10808-1

SDG No.:

Client Sample ID: MT-MW02S-043012 | Lab Sample ID: 240-10808-4

Matrix: Water | Lab File ID: P5F05077.D

Analysis Method: 8015B | Date Collected: 04/30/2012 13:05

Extraction Method: 3510C | Date Extracted: 05/04/2012 12:16

Sample wt/vol: 1050(mL) | Date Analyzed: 05/07/2012 11:16

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 42964 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| STL00141 | Total Petroleum Hydrocarbons (C10-C32) | 3700 | | 480 | 230 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 111-84-2 | n-Nonane | 57 | | 10-110 |

**Appendix C**

Support Documentation

MARTIN STATE AIRPORT - GROUNDWATER
SDG 240-10808-1

| | |
|---|---|
| SAMPLE IDENTIFICATION | MT-MW02S-043012 |
| COMPOUND | ETHYLBENZENE |
| COMPOUND AREA | 2379121 |
| INTERNAL STANDARD AMOUNT (ng) | 50 |
| VOLUME WATER PURGED (ml) | 5 |
| DILUTION FACTOR | 5 |
| INTERNAL STANDARD AREA | 1154735 |
| AVERAGE RRF | 0.5579 |
| ml to µl | 1000 |
| ng to µg | 1000 |

= 184.6 µg/L

2379121 x 50 ng x 5 x 1000ml x 1µg /1154735 x 0.5579 x 5ml x 1L x 1000ng

TestAmerica Laboratories
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Ncchrom\ChromData\A3UX16\20120510-9837.b\UXM5699.D | | |
| Lims ID: | 240-10808-A-4 | Client ID: | MT-MW02S-043012 |
| Inject. Date: | 10-May-2012 13:33:30 | Dil. Factor: | 5.0000 |
| Sample Type: | Client | | |
| Sample ID: | 240-0009837-009 | | |
| Misc. Info.: | M20510A,8260LLUX16,,1644 | | |
| Operator: | 1644 | Instrument ID: | A3UX16 |
| Vol. Injected: | 1.0000 | ALS Bottle#: | 8 |
| Lims Batch ID: | 43549 | Lims Sample ID: | 9 |
| Detector: | MS SCAN | | |
| Method: | \\Ncchrom\ChromData\A3UX16\20120510-9837.b\8260_16.m | | |
| Last Update: | 11-May-2012 10:46:30 | Calib Date: | 09-May-2012 18:43:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Ncchrom\ChromData\A3UX16\20120509-9809.b\UXM5665.D | | |
| Limit Group: | MSV 8260DOD ICAL | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Process Host: | CORP-CTX-15 | | |
| First Level Reviewer: williamsla | | Date: | 10-May-2012 14:02:51 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 141 1-Chlorooctane | 1 | | 0.000 | | | | | |
| * 1 Fluorobenzene | 96 | 5.702 | 5.702 | 0.0 | 98 | 1490431 | 10.0 | |
| * 2 Chlorobenzene-d5 | 117 | 8.393 | 8.393 | 0.0 | 89 | 1154735 | 10.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 10.635 | 10.635 | 0.0 | 96 | 657198 | 10.0 | |
| $ 5 Dibromofluoromethane (Surr) | 113 | 5.109 | 5.109 | 0.0 | 58 | 384323 | 10.2 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 5.405 | 5.405 | 0.0 | 0 | 477366 | 10.0 | |
| $ 7 Toluene-d8 (Surr) | 98 | 7.077 | 7.077 | 0.0 | 95 | 1502646 | 9.67 | |
| $ 131 4-Bromofluorobenzene (Surr) | 95 | 9.508 | 9.508 | 0.0 | 89 | 639651 | 10.7 | |
| 12 Dichlorodifluoromethane | 85 | | 1.670 | | | | | |
| 13 Chloromethane | 50 | | 1.824 | | | | | |
| 14 Vinyl chloride | 62 | | 1.942 | | | | | |
| 15 Bromomethane | 94 | | 2.286 | | | | | |
| 16 Chloroethane | 64 | | 2.393 | | | | | |
| 18 Trichlorofluoromethane | 101 | | 2.654 | | | | | |
| 21 1,1-Dichloroethene | 96 | | 3.140 | | | | | |
| 23 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | | 3.164 | | | | | |
| 22 Acetone | 43 | 3.176 | 3.176 | 0.0 | 99 | 288453 | 17.9 | |
| 26 Carbon disulfide | 76 | | 3.354 | | | | | |
| 30 Methylene Chloride | 84 | | 3.579 | | | | | |
| 31 2-Methyl-2-propanol | 59 | | 3.674 | | | | | |
| 34 Methyl tert-butyl ether | 73 | | 3.840 | | | | | |
| 33 trans-1,2-Dichloroethene | 96 | | 3.840 | | | | | |
| 36 1,1-Dichloroethane | 63 | | 4.207 | | | | | |
| 37 Vinyl acetate | 86 | | 4.243 | | | | | |
| 38 Isopropyl ether | 87 | 4.267 | 4.267 | 0.0 | 93 | 10018 | 0.2422 | |
| 40 Tert-butyl ethyl ether | 59 | | 4.587 | | | | | |
| 41 2-Butanone (MEK) | 43 | | 4.706 | | | | | |
| 42 cis-1,2-Dichloroethene | 96 | 4.705 | 4.706 | -0.001 | 69 | 49677 | 0.9550 | |
| 43 2,2-Dichloropropane | 77 | | 4.717 | | | | | |
| 47 Chlorobromomethane | 128 | | 4.907 | | | | | |
| 49 Chloroform | 83 | | 4.978 | | | | | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 50 1,1,1-Trichloroethane | 97 | | 5.156 | | | | | |
| 52 1,1-Dichloropropene | 75 | | 5.287 | | | | | |
| 53 Carbon tetrachloride | 117 | | 5.298 | | | | | |
| 56 1,2-Dichloroethane | 62 | 5.476 | 5.464 | 0.012 | 29 | 48692 | 0.7646 | |
| 55 Benzene | 78 | 5.476 | 5.476 | 0.0 | 97 | 3022378 | 17.4 | |
| 57 Tert-amyl methyl ether | 73 | | 5.559 | | | | | |
| 60 Trichloroethene | 130 | | 6.022 | | | | | |
| 62 1,2-Dichloropropane | 63 | | 6.212 | | | | | |
| 65 Dibromomethane | 93 | | 6.306 | | | | | |
| 67 Dichlorobromomethane | 83 | | 6.437 | | | | | |
| 69 2-Chloroethyl vinyl ether | 63 | | 6.686 | | | | | |
| 70 cis-1,3-Dichloropropene | 75 | | 6.828 | | | | | |
| 71 4-Methyl-2-pentanone (MIBK) | 43 | 6.947 | 6.947 | 0.0 | 70 | 21915 | 0.5062 | |
| 72 Toluene | 91 | | 7.137 | | | | | |
| 73 trans-1,3-Dichloropropene | 75 | | 7.314 | | | | | |
| 76 1,3-Dichloropropane | 76 | | 7.635 | | | | | |
| 77 Tetrachloroethene | 164 | | 7.646 | | | | | |
| 78 2-Hexanone | 43 | | 7.694 | | | | | |
| 79 Chlorodibromomethane | 129 | | 7.848 | | | | | |
| 123 Ethylene Dibromide | 107 | | 7.967 | | | | | |
| 82 Chlorobenzene | 112 | | 8.429 | | | | | |
| 83 1,1,1,2-Tetrachloroethane | 131 | | 8.488 | | | | | |
| 84 Ethylbenzene | 106 | 8.524 | 8.524 | 0.0 | 98 | 2379121 | 36.9 | |
| 10 m-Xylene & p-Xylene | 106 | 8.631 | 8.631 | 0.0 | 97 | 804959 | 9.94 | |
| 85 o-Xylene | 106 | 9.010 | 9.010 | 0.0 | 98 | 350770 | 4.36 | |
| 86 Styrene | 104 | | 9.010 | | | | | |
| 87 Bromoform | 173 | | 9.188 | | | | | |
| 88 Isopropylbenzene | 105 | 9.354 | 9.354 | 0.0 | 96 | 1180910 | 6.16 | |
| 90 1,1,2,2-Tetrachloroethane | 83 | | 9.615 | | | | | |
| 91 Bromobenzene | 156 | | 9.662 | | | | | |
| 92 1,2,3-Trichloropropane | 110 | | 9.674 | | | | | |
| 94 N-Propylbenzene | 120 | 9.757 | 9.757 | 0.0 | 98 | 97182 | 1.94 | |
| 95 2-Chlorotoluene | 126 | | 9.840 | | | | | |
| 104 4-Chlorotoluene | 126 | | 9.947 | | | | | |
| 97 tert-Butylbenzene | 119 | | 10.243 | | | | | |
| 98 1,2,4-Trimethylbenzene | 105 | 10.291 | 10.291 | 0.0 | 97 | 291669 | 1.83 | |
| 99 sec-Butylbenzene | 105 | 10.457 | 10.457 | 0.0 | 60 | 25068 | 0.1499 | |
| 100 1,3-Dichlorobenzene | 146 | | 10.575 | | | | | |
| 101 4-Isopropyltoluene | 119 | 10.599 | 10.599 | 0.0 | 86 | 44914 | 0.3130 | |
| 102 1,4-Dichlorobenzene | 146 | | 10.658 | | | | | |
| 103 1,2,3-Trimethylbenzene | 105 | 10.706 | 10.706 | 0.0 | 87 | 95991 | 0.4898 | |
| 105 n-Butylbenzene | 91 | | 11.002 | | | | | |
| 106 1,2-Dichlorobenzene | 146 | | 11.026 | | | | | |
| 107 1,2-Dibromo-3-Chloropropane | 157 | | 11.797 | | | | | |
| 109 1,2,4-Trichlorobenzene | 180 | | 12.639 | | | | | |
| 110 Hexachlorobutadiene | 225 | | 12.817 | | | | | |
| 111 Naphthalene | 128 | 12.888 | 12.888 | 0.0 | 62 | 19213 | 0.1981 | |
| 112 1,2,3-Trichlorobenzene | 180 | | 13.149 | | | | | |
| S 114 Xylenes, Total | 106 | | | | 0 | | 14.3 | |

RRF = 0.5579

TestAmerica Laboratories
Tentatively Identified Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Ncchrom\ChromData\A3UX16\20120510-9837.b\UXM5699.D | | |
| Lims ID: | 240-10808-A-4 | Client ID: | MT-MW02S-043012 |
| Inject. Date: | 10-May-2012 13:33:30 | Dil. Factor: | 5.0000 |
| Sample Type: | Client | | |
| Sample ID: | 240-0009837-009 | | |
| Misc. Info.: | M20510A,8260LLUX16,,1644 | | |
| Operator: | 1644 | Instrument ID: | A3UX16 |
| Vol. Injected: | 1.0000 | ALS Bottle#: | 8 |
| Lims Batch ID: | 43549 | Lims Sample ID: | 9 |
| Detector: | MS SCAN | | |
| Method: | \\Ncchrom\ChromData\A3UX16\20120510-9837.b\8260_16.m | | |
| Last Update: | 11-May-2012 10:46:30 | Calib Date: | 09-May-2012 18:43:30 |
| Tic RT Window: | 1.600 -0.000 | Response: | area |
| Quant By: | Nearest ISTD | Quant LOD: | 10.00000 |
| MS Library: | \\Ncchrom\ChromData\Database\NIST98.L | | |
| Min. Match: | 10 | | |
| Process Host: | CORP-CTX-15 | | |
| First Level Reviewer: williamsla | | Date: | 10-May-2012 14:02:51 |

Calibrated Tentative Identified Compound Results

| Compound | RT | Response | Amount ug/l | Flags |
|---|---|---|---|---|
| Cyclohexane | 5.215 | 878136 | 9.07 | |
| 1,3,5-Trimethylbenzene | 9.923 | 1420029 | 9.31 | |

Tentative Identified Compound Results

| RT | Response | Amount ug/l | Quant Cpnd | Qual | Lib Entry | Flags |
|---|---|---|---|---|---|---|
| 598-61-8 Cyclobutane, methyl- | | | | | | |
| 3.674 | 644408 | 1.96 | 1 | 87 | 3261 | |
| 96-37-7 Cyclopentane, methyl- | | | | | | |
| 4.634 | 1220604 | 3.71 | 1 | 91 | 111861 | |
| 565-80-0 3-Pentanone, 2,4-dimethyl- | | | | | | |
| 7.670 | 996824 | 2.48 | 2 | 86 | 109868 | |
| 3970-62-5 3-Pentanol, 2,2-dimethyl- | | | | | | |
| 8.109 | 521792 | 1.30 | 2 | 64 | 113266 | |
| 815-57-6 2,4-Pentanedione, 3-methyl- | | | | | | |
| 8.227 | 622105 | 1.55 | 2 | 59 | 109965 | |
| 620-14-4 Benzene, 1-ethyl-3-methyl- | | | | | | |
| 9.840 | 877628 | 2.08 | 3 | 87 | 119287 | |
| 611-14-3 Benzene, 1-ethyl-2-methyl- | | | | | | |
| 10.125 | 611361 | 1.45 | 3 | 91 | 119281 | |
| 496-11-7 Indane | | | | | | |
| 10.907 | 677947 | 1.61 | 3 | 87 | 120526 | |

Report Date: 11-May-2012 10:46:33 Chrom Revision: 2.0 08-Feb-2012 11:07:54
Data File: \\Ncchrom\ChromData\A3UX16\20120510-9837.b\UXM5699.D
Quantitation Compounds

| Compound | RT | Response | Amount ug/l |
|---|---|---|---|
| * 1 Fluorobenzene | 5.702 | 3288690 | 10.0 |
| * 2 Chlorobenzene-d5 | 8.393 | 4011431 | 10.0 |
| * 3 1,4-Dichlorobenzene-d4 | 10.635 | 4220751 | 10.0 |

QC Flag Legend

Processing Flags

TestAmerica Laboratories
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Ncchrom\ChromData\A2HP5F\20120507-9715.b\P5F05077.D | | |
| Lims ID: | 240-10808-J-4-A | Client ID: | MT-MW02S-043012 |
| Inject. Date: | 07-May-2012 11:16:05 | Dil. Factor: | 1.0000 |
| Sample Type: | Client | | |
| Sample ID: | 240-0009715-007 | | |
| Misc. Info.: | | | |
| Operator: | 2398 | Instrument ID: | A2HP5F |
| Vol. Injected: | 1.0000 | ALS Bottle#: | 7 |
| Lims Batch ID: | 42964 | Lims Sample ID: | 7 |
| Detector: | GC FID1A | | |
| Method: | \\Ncchrom\ChromData\A2HP5F\20120507-9715.b\TPH5F.m | | |
| Last Update: | 08-May-2012 07:46:28 | Calib Date: | 13-Apr-2012 15:06:59 |
| Quant Method: | External Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Ncchrom\ChromData\A2HP5F\20120413-9029.b\P5F04144.D | | |
| Limit Group: | GC TPH DIESEL ICAL | | |
| Integrator: | Falcon | | |
| Process Host: | CORP-CTX-18 | | |

| RT | EXP RT | DLT RT | Response | On-Col Amt ng/ul | Flags |
|---|---|---|---|---|---|
| $ 8 n-Nonane | | | | | |
| 3.799 | 3.796 | 0.003 | 12262811 | 56.6 | |
| A 15 Diesel | | | | | |
| 9.247 | 4.909 - | 13.585 | 139437375 | 740.6 | |
| A 17 C10-C32 | | | | | |
| 9.946 | 4.909 - | 14.983 | 144521858 | 767.6 | |

$\overline{CF} = 189272.909$

extraction = 1050ml / 5ml

$$\frac{144521858\ ng/\mu l}{189272.909} \times \frac{5ml}{1050ml} \times \frac{1\ mg}{1000ng} \times \frac{1000000\ \mu l}{1L}$$

$= 3655.3\ mg/L$

# Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

| Client Contact | | | | |
|---|---|---|---|---|
| Company Name: Tetra Tech | Client Project Manager: Tony Aparicio | Site Contact: Stu Cameron | Lab Contact: | COC No: 006079 |
| Address: 20251 Century Blvd Ste 200 | Telephone: (301)528-5553 | Telephone: (703)342-8389 | Telephone: | 1 of 1 COCs |
| City/State/Zip: Germantown MD, 20874 | Email: Tony.Aparicio@tetratech.com | Analysis Turnaround Time (in BUS days) | Analyses | For lab use only: Walk-in Client ☐ Lab picking ☐ Lab sampling ☐ Job/SDG No. |
| Phone: (301) 528-5552 | | TAT if different from below _____ ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day | | |
| Project Name: MSA GW Sampling | Method of Shipment/Carrier: | | | |
| Project Number: 112IC04021 | Shipping/Tracking No: | | | |
| PO# | | | | |

| Sample Identification | Sample Date | Sample Time | Matrix: Air | Aqueous | Sediment | Solid | Other: | Containers & Preservatives: H2SO4 | HNO3 | HCl | NaOH | ZnAc/NaOH | Unpres | Other: | Filtered Sample (Y/N) | Composite C/Grab G | VOCs | Total Metals | Dissolved Metals | Perchlorate | 1,4-Dioxane | TPH-GRO | TPH-DRO | Sample Specific Notes / Special Instructions: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TB-043012 | — | — | | X | | | | | | 2 | | | | | | | X | | | | | | | |
| GSP-MW5-043012 | 4/30/12 | 1030 | | X | | | | | 2 | 5 | | | 5 | | | G | X | X | X | X | X | X | X | |
| GSP-MW6-043012 | ↓ | 1145 | | X | | | | | 2 | 5 | | | 5 | | | G | X | X | X | X | X | X | X | |
| MT-MW02S-043012 | ↓ | 1305 | | X | | | | | 2 | 5 | | | 5 | | | G | X | X | X | X | X | X | X | |

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

| | | | | | |
|---|---|---|---|---|---|
| Relinquished by: Stu Cameron | Company: Tetra Tech | Date/Time: 4-30-12/1445 | Received by: Paul Gaylord | Company: TestAmerica | Date/Time: 4/30/12 1446 |
| Relinquished by: | Company: TestAmerica | Date/Time: 4-30-2012/1530 | Received by: | Company: | Date/Time: |
| Relinquished by: | Company: | Date/Time: | Received in Laboratory by: | Company: | Date/Time: 5-1-12 930 |

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05/29/2012

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## CASE NARRATIVE

## Client: Tetra Tech, Inc formerly Tetra Tech NUS

## Project: MSA Groundwater Sampling

## Report Number: 240-10808-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

The 6850 Perchlorate analysis was performed at the TestAmerica West Sacramento Laboratory.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 05/01/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.9 and 3.2 C.

VOLATILE ORGANIC COMPOUNDS (GC MS)

Samples TB-043012 (240-10808-1), GSP-MW5-043012 (240-10808-2), GSP-MW6-043012 (240-10808-3) and MT-MW02S-043012 (240-10808-4) were analyzed for volatile organic compounds (GC MS) in accordance with EPA SW-846 Method 8260C. The samples were analyzed on 05/10/2012.

1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene and Hexachlorobutadiene were detected in method blank MB 240-43549/5 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

2-Butanone and 2-Chloroethyl vinyl ether failed the recovery criteria low for the MS/MSD of sample 240-10837-5 in batch 240-43549. Refer to the QC report for details.

Sample MT-MW02S-043012 (240-10808-4)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the VOCs analyses. All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples GSP-MW5-043012 (240-10808-2), GSP-MW6-043012 (240-10808-3) and MT-MW02S-043012 (240-10808-4) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 05/05/2012 and analyzed on 05/08/2012.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out and no corrective action is required.

1,4-Dioxane failed the recovery criteria high for the MSD of sample 240-10837-5 in batch 240-43126.

1,4-Dioxane failed the recovery criteria low for the MSD of sample 240-10842-8 in batch 240-43665. 1,4-Dioxane exceeded the rpd limit.

Refer to the QC report for details.

No other difficulties were encountered during the SVOCs analyses. All other quality control parameters were within the acceptance limits.

GASOLINE RANGE ORGANICS (GRO)

Samples GSP-MW5-043012 (240-10808-2), GSP-MW6-043012 (240-10808-3) and MT-MW02S-043012 (240-10808-4) were analyzed for gasoline range organics (GRO) in accordance with EPA SW-846 Method 8015B - GRO. The samples were analyzed on 05/07/2012.

Total Petroleum Hydrocarbons (C6-C10) was detected in method blank MB 240-42995/6 at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

No other difficulties were encountered during the GRO analyses. All other quality control parameters were within the acceptance limits.

DIESEL RANGE ORGANICS (DRO)

Samples GSP-MW5-043012 (240-10808-2), GSP-MW6-043012 (240-10808-3) and MT-MW02S-043012 (240-10808-4) were analyzed for diesel range organics (DRO) in accordance with EPA SW-846 Method 8015B - DRO. The samples were prepared on 05/04/2012 and analyzed on 05/07/2012.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required.

No difficulties were encountered during the DRO analyses. All quality control parameters were within the acceptance limits.

DISSOLVED METALS (ICPMS)

Samples GSP-MW5-043012 (240-10808-2), GSP-MW6-043012 (240-10808-3) and MT-MW02S-043012 (240-10808-4) were analyzed for dissolved metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 05/02/2012 and analyzed on 05/03/2012.

No difficulties were encountered during the metals analyses. All quality control parameters were within the acceptance limits.

TOTAL RECOVERABLE METALS (ICPMS)

Samples GSP-MW5-043012 (240-10808-2), GSP-MW6-043012 (240-10808-3) and MT-MW02S-043012 (240-10808-4) were analyzed for total recoverable metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 05/02/2012 and analyzed on 05/03/2012.

Several analytes were detected in method blank MB 240-42485/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

No other difficulties were encountered during the metals analyses. All other quality control parameters were within the acceptance limits.

DISSOLVED MERCURY (CVAA)

Samples GSP-MW5-043012 (240-10808-2), GSP-MW6-043012 (240-10808-3) and MT-MW02S-043012 (240-10808-4) were analyzed for dissolved mercury (CVAA) in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 05/03/2012 and 05/07/2012 and analyzed on 05/04/2012 and 05/08/2012.

No difficulties were encountered during the mercury analyses. All quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples GSP-MW5-043012 (240-10808-2), GSP-MW6-043012 (240-10808-3) and MT-MW02S-043012 (240-10808-4) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 05/03/2012 and 05/07/2012 and analyzed on 05/04/2012 and 05/08/2012.

No difficulties were encountered during the mercury analyses. All quality control parameters were within the acceptance limits.

## SAMPLE SUMMARY

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-10808-1

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|---|---|---|---|---|
| 240-10808-1TB | TB-043012 | Water | 04/30/2012 0000 | 05/01/2012 0930 |
| 240-10808-2 | GSP-MW5-043012 | Water | 04/30/2012 1030 | 05/01/2012 0930 |
| 240-10808-3 | GSP-MW6-043012 | Water | 04/30/2012 1145 | 05/01/2012 0930 |
| 240-10808-4 | MT-MW02S-043012 | Water | 04/30/2012 1305 | 05/01/2012 0930 |

## DATA REPORTING QUALIFIERS

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-10808-1

| Lab Section | Qualifier | Description |
|---|---|---|
| GC/MS VOA | | |
| | J | Indicates an Estimated Value for TICs |
| | U | Indicates the analyte was analyzed for but not detected. |
| | F | MS or MSD exceeds the control limits |
| | E | Result exceeded calibration range. |
| | T | Result is a tentatively identified compound (TIC) and an estimated value. |
| | J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| | N | This flag indicates the presumptive evidence of a compound. |
| GC/MS Semi VOA | | |
| | U | Indicates the analyte was analyzed for but not detected. |
| | F | MS or MSD exceeds the control limits |
| | F | RPD of the MS and MSD exceeds the control limits |
| GC VOA | | |
| | B | Compound was found in the blank and sample. |
| | J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| GC Semi VOA | | |
| | U | Indicates the analyte was analyzed for but not detected. |

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

| Client Sample ID | Lab Sample ID | DBFM # | DCA # | TOL # | BFB # |
|---|---|---|---|---|---|
| TB-043012 | 240-10808-1 | 91 | 97 | 96 | 97 |
| GSP-MW5-043012 | 240-10808-2 | 102 | 102 | 95 | 98 |
| GSP-MW6-043012 | 240-10808-3 | 95 | 96 | 98 | 100 |
| MT-MW02S-043012 | 240-10808-4 | 100 | 98 | 95 | 105 |
| | MB 240-43549/5 | 91 | 98 | 97 | 97 |
| | LCS 240-43549/4 | 92 | 95 | 101 | 102 |
| | 240-10837-D-5 MS | 97 | 100 | 101 | 102 |
| | 240-10837-E-5 MSD | 94 | 93 | 95 | 96 |

| | QC LIMITS |
|---|---|
| DBFM = Dibromofluoromethane (Surr) | 75-121 |
| DCA = 1,2-Dichloroethane-d4 (Surr) | 63-129 |
| TOL = Toluene-d8 (Surr) | 74-115 |
| BFB = 4-Bromofluorobenzene (Surr) | 66-117 |

# Column to be used to flag recovery values

FORM II 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton  Job No.: 240-10808-1

SDG No.:

Sample No.: STD8260 240-43409/4  Date Analyzed: 05/09/2012 17:35

Instrument ID: A3UX16  GC Column: DB-624  ID: 0.18(mm)

Lab File ID (Standard): UXM5662.D  Heated Purge: (Y/N) N

Calibration ID: 8614

| | | FB | | CBZ | | DCB | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | | 1744720 | 5.70 | 1311107 | 8.39 | 771411 | 10.64 |
| UPPER LIMIT | | 3489440 | 6.20 | 2622214 | 8.89 | 1542822 | 11.14 |
| LOWER LIMIT | | 872360 | 5.20 | 655554 | 7.89 | 385706 | 10.14 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| ICV 240-43409/8 | | 1716805 | 5.70 | 1288543 | 8.39 | 755167 | 10.64 |
| CCVIS 240-43549/2 | | 1685929 | 5.70 | 1198706 | 8.39 | 696224 | 10.64 |

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton  Job No.: 240-10808-1

SDG No.:

Sample No.: CCVIS 240-43549/2  Date Analyzed: 05/10/2012 10:53

Instrument ID: A3UX16  GC Column: DB-624  ID: 0.18(mm)

Lab File ID (Standard): UXM5692.D  Heated Purge: (Y/N) N

Calibration ID: 8614

| | | FB | | CBZ | | DCB | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 1685929 | 5.70 | 1198706 | 8.39 | 696224 | 10.64 |
| UPPER LIMIT | | 3371858 | 6.20 | 2397412 | 8.89 | 1392448 | 11.14 |
| LOWER LIMIT | | 842965 | 5.20 | 599353 | 7.89 | 348112 | 10.14 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| CCV 240-43549/3 | | 1693016 | 5.70 | 1283426 | 8.39 | 677855 | 10.64 |
| LCS 240-43549/4 | | 1679901 | 5.70 | 1201426 | 8.39 | 713156 | 10.64 |
| MB 240-43549/5 | | 1644585 | 5.70 | 1222754 | 8.39 | 644299 | 10.64 |
| 240-10808-1 | TB-043012 | 1646516 | 5.70 | 1246377 | 8.39 | 643038 | 10.64 |
| 240-10808-2 | GSP-MW5-043012 | 1572318 | 5.70 | 1192812 | 8.39 | 652627 | 10.64 |
| 240-10808-3 | GSP-MW6-043012 | 1587946 | 5.70 | 1173345 | 8.39 | 631759 | 10.64 |
| 240-10808-4 | MT-MW02S-043012 | 1490431 | 5.70 | 1154735 | 8.39 | 657198 | 10.64 |
| 240-10837-D-5 MS | | 1587604 | 5.70 | 1149469 | 8.39 | 664336 | 10.64 |
| 240-10837-E-5 MSD | | 1579177 | 5.70 | 1228432 | 8.39 | 675357 | 10.64 |

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8260C

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Lab File ID: BFB2914.D BFB Injection Date: 04/29/2012

Instrument ID: A3UX16 BFB Injection Time: 15:11

Analysis Batch No.: 42092

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 50 | 15.0 - 40.0 % of mass 95 | 21.4 | |
| 75 | 30.0 - 60.0 % of mass 95 | 55.5 | |
| 95 | Base Peak, 100% relative abundance | 100.0 | |
| 96 | 5.0 - 9.0 % of mass 95 | 6.3 | |
| 173 | Less than 2.0 % of mass 174 | 0.3 | (0.4)1 |
| 174 | 50.0 - 120.00 % of mass 95 | 67.2 | |
| 175 | 5.0 - 9.0 % of mass 174 | 4.9 | (7.4)1 |
| 176 | 95.0 - 101.0 % of mass 174 | 65.5 | (97.4)1 |
| 177 | 5.0 - 9.0 % of mass 176 | 4.1 | (6.3)2 |

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | STD1 240-42092/8 | UXM5245.D | 04/29/2012 | 17:57 |
| | STD2 240-42092/9 | UXM5246.D | 04/29/2012 | 18:20 |
| | STD3 240-42092/10 | UXM5247.D | 04/29/2012 | 18:42 |
| | STD4 240-42092/11 | UXM5248.D | 04/29/2012 | 19:05 |
| | STD5 240-42092/12 | UXM5249.D | 04/29/2012 | 19:28 |
| | STD6 240-42092/13 | UXM5250.D | 04/29/2012 | 19:50 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-10808-1 Analy Batch No.: 42092

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2012 17:57 Calibration End Date: 04/29/2012 19:50 Calibration ID: 8428

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD6 240-42092/13 | UXM5250.D |
| Level 2 | STD5 240-42092/12 | UXM5249.D |
| Level 3 | STD4 240-42092/11 | UXM5248.D |
| Level 4 | STD3 240-42092/10 | UXM5247.D |
| Level 5 | STD2 240-42092/9 | UXM5246.D |
| Level 6 | STD1 240-42092/8 | UXM5245.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Dichlorofluoromethane | 0.4944<br>0.5457 | 0.5179 | 0.5366 | 0.5411 | 0.5388 | Ave | | 0.5291 | | | | 3.7 | | 15.0 | | | |
| Ethyl ether | 0.2959<br>0.3118 | 0.3149 | 0.3299 | 0.3322 | 0.3247 | Ave | | 0.3182 | | | | 4.3 | | 15.0 | | | |
| 3-Chloro-1-propene | 0.1138<br>0.1626 | 0.1307 | 0.1332 | 0.1472 | 0.1572 | Ave | | 0.1408 | | | | 13.0 | | 15.0 | | | |
| Diisopropyl ether | 0.2325<br>0.3039 | 0.2698 | 0.2820 | 0.2880 | 0.2888 | Ave | | 0.2775 | | | | 8.9 | | 15.0 | | | |
| 2-Chloro-1,3-butadiene | 0.4443<br>0.5618 | 0.4913 | 0.5190 | 0.5386 | 0.5385 | Ave | | 0.5156 | | | | 8.2 | | 15.0 | | | |
| Ethyl-t-butyl ether (ETBE) | 0.7557<br>0.9819 | 0.8293 | 0.9029 | 0.9314 | 0.9383 | Ave | | 0.8899 | | | | 9.3 | | 15.0 | | | |
| Propionitrile | 0.0349<br>0.0408 | 0.0346 | 0.0382 | 0.0420 | 0.0412 | Ave | | 0.0386 | | | | 8.5 | | 15.0 | | | |
| Ethyl acetate | 0.2532<br>0.2900 | 0.2546 | 0.2741 | 0.2771 | 0.2824 | Ave | | 0.2719 | | | | 5.5 | | 15.0 | | | |
| Methacrylonitrile | 0.1606<br>0.2023 | 0.1897 | 0.1949 | 0.2046 | 0.2003 | Ave | | 0.1921 | | | | 8.5 | | 15.0 | | | |
| Isobutyl alcohol | 0.0077<br>0.0091 | 0.0077 | 0.0086 | 0.0094 | 0.0092 | Ave | | 0.0086 | | | | 8.8 | | 15.0 | | | |
| Tert-amyl-methyl ether (TAME) | 0.5871<br>0.7972 | 0.6671 | 0.7241 | 0.7535 | 0.7651 | Ave | | 0.7157 | | | | 11.0 | | 15.0 | | | |
| n-Heptane | 0.0338<br>0.0458 | 0.0359 | 0.0418 | 0.0425 | 0.0440 | Ave | | 0.0406 | | | | 12.0 | | 15.0 | | | |
| n-Butanol | 0.0041<br>0.0069 | 0.0052 | 0.0059 | 0.0064 | 0.0070 | Lin1 | -0.068 | 0.0070 | | | | | | | 0.9990 | | 0.9950 |
| 2-Nitropropane | 0.0349<br>0.0534 | 0.0349 | 0.0424 | 0.0409 | 0.0453 | Qua | 0 | 0.0373 | 0.0002 | | | | | | 1.0000 | | 0.9900 |
| Cyclohexanone | 0.0676<br>0.1071 | 0.0696 | 0.0924 | 0.0940 | 0.1083 | Lin1 | -0.573 | 0.1077 | | | | | | | 0.9980 | | 0.9950 |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-10808-1 Analy Batch No.: 42092

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2012 17:57 Calibration End Date: 04/29/2012 19:50 Calibration ID: 8428

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 1,2,3-Trimethylbenzene | 2.3062<br>3.3384 | 2.8522 | 3.0020 | 3.1126 | 3.2823 | Ave | | 2.9823 | | | | 13.0 | | 15.0 | | | |
| 2-Methylnaphthalene | 0.5487<br>0.8482 | 0.7229 | 0.8158 | 0.9225 | 1.0313 | Qua | -2.422 | 1.2182 | -0.004 | | | | | | 0.9970 | | 0.9900 |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Lab File ID: BFB2951.D BFB Injection Date: 05/09/2012

Instrument ID: A3UX16 BFB Injection Time: 16:26

Analysis Batch No.: 43409

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 50 | 15.0 - 40.0 % of mass 95 | 24.5 | |
| 75 | 30.0 - 60.0 % of mass 95 | 47.7 | |
| 95 | Base Peak, 100% relative abundance | 100.0 | |
| 96 | 5.0 - 9.0 % of mass 95 | 6.9 | |
| 173 | Less than 2.0 % of mass 174 | 0.2 | (0.2)1 |
| 174 | 50.0 - 120.00 % of mass 95 | 79.3 | |
| 175 | 5.0 - 9.0 % of mass 174 | 5.7 | (7.2)1 |
| 176 | 95.0 - 101.0 % of mass 174 | 78.8 | (99.5)1 |
| 177 | 5.0 - 9.0 % of mass 176 | 4.7 | (5.9)2 |

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | STD8260 240-43409/2 | UXM5660.D | 05/09/2012 | 16:50 |
| | STD8260 240-43409/3 | UXM5661.D | 05/09/2012 | 17:12 |
| | STD8260 240-43409/4 | UXM5662.D | 05/09/2012 | 17:35 |
| | STD8260 240-43409/5 | UXM5663.D | 05/09/2012 | 17:58 |
| | STD8260 240-43409/6 | UXM5664.D | 05/09/2012 | 18:20 |
| | STD8260 240-43409/7 | UXM5665.D | 05/09/2012 | 18:43 |
| | ICV 240-43409/8 | UXM5666.D | 05/09/2012 | 19:06 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-10808-1 Analy Batch No.: 43409

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/09/2012 16:50 Calibration End Date: 05/09/2012 18:43 Calibration ID: 8614

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD8260 240-43409/7 | UXM5665.D |
| Level 2 | STD8260 240-43409/6 | UXM5664.D |
| Level 3 | STD8260 240-43409/5 | UXM5663.D |
| Level 4 | STD8260 240-43409/4 | UXM5662.D |
| Level 5 | STD8260 240-43409/3 | UXM5661.D |
| Level 6 | STD8260 240-43409/2 | UXM5660.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Dichlorodifluoromethane | 0.3032<br>0.3143 | 0.2539 | 0.2973 | 0.2657 | 0.3062 | Ave | | 0.2901 | | | 0.1000 | 8.4 | | 15.0 | | | |
| Chloromethane | 0.6852<br>0.6205 | 0.6371 | 0.6849 | 0.6156 | 0.6587 | Ave | | 0.6503 | | | 0.1000 | 4.7 | | 15.0 | | | |
| Vinyl chloride | 0.4547<br>0.4560 | 0.4270 | 0.4657 | 0.4279 | 0.4758 | Ave | | 0.4512 | | | 0.1000 | 4.4 | | 15.0 | | | |
| Bromomethane | 0.2084<br>0.1529 | 0.1821 | 0.1851 | 0.1563 | 0.1804 | Ave | | 0.1775 | | | 0.0500 | 12.0 | | 15.0 | | | |
| Chloroethane | 0.2573<br>0.2377 | 0.2580 | 0.2693 | 0.2344 | 0.2581 | Ave | | 0.2524 | | | | 5.4 | | 15.0 | | | |
| Trichlorofluoromethane | 0.3101<br>0.3295 | 0.3079 | 0.3225 | 0.2997 | 0.3473 | Ave | | 0.3195 | | | 0.1000 | 5.4 | | 15.0 | | | |
| Acrolein | 0.0620<br>0.0594 | 0.0566 | 0.0598 | 0.0605 | 0.0630 | Ave | | 0.0602 | | | | 3.7 | | 15.0 | | | |
| 1,1-Dichloroethene | 0.2593<br>0.2847 | 0.2457 | 0.2768 | 0.2781 | 0.2948 | Ave | | 0.2733 | | | 0.1000 | 6.5 | | 15.0 | | | |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 0.1558<br>0.2077 | 0.1678 | 0.1758 | 0.1970 | 0.2009 | Ave | | 0.1842 | | | 0.0500 | 11.0 | | 15.0 | | | |
| Acetone | 0.1950<br>0.0973 | 0.1448 | 0.1189 | 0.1063 | 0.1066 | Lin1 | 0.1992 | 0.0970 | | | 0.0500 | | | | 0.9990 | | 0.9950 |
| Iodomethane | 0.4877<br>0.4873 | 0.4523 | 0.4923 | 0.4807 | 0.4978 | Ave | | 0.4830 | | | | 3.3 | | 15.0 | | | |
| Carbon disulfide | 0.8203<br>0.9849 | 0.8078 | 0.8789 | 0.8856 | 0.9660 | Ave | | 0.8906 | | | 0.1000 | 8.2 | | 15.0 | | | |
| Acetonitrile | 0.0521<br>0.0408 | 0.0448 | 0.0457 | 0.0427 | 0.0442 | Ave | | 0.0451 | | | | 8.6 | | 15.0 | | | |
| Methyl acetate | 0.2743<br>0.2474 | 0.2522 | 0.2631 | 0.2590 | 0.2628 | Ave | | 0.2598 | | | 0.1000 | 3.6 | | 15.0 | | | |
| Methylene Chloride | 0.5939<br>0.3427 | 0.4564 | 0.4050 | 0.3631 | 0.3666 | Lin1 | 0.2534 | 0.3421 | | | 0.1000 | | | | 0.9990 | | 0.9950 |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-10808-1 Analy Batch No.: 43409

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/09/2012 16:50 Calibration End Date: 05/09/2012 18:43 Calibration ID: 8614

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| tert-Butyl alcohol | 0.0181<br>0.0174 | 0.0168 | 0.0177 | 0.0177 | 0.0194 | Ave | | 0.0178 | | | | 4.7 | | 15.0 | | | |
| Acrylonitrile | 0.1490<br>0.1387 | 0.1316 | 0.1465 | 0.1448 | 0.1465 | Ave | | 0.1429 | | | | 4.6 | | 15.0 | | | |
| Methyl tert-butyl ether | 0.6991<br>0.7388 | 0.6445 | 0.7170 | 0.7045 | 0.7607 | Ave | | 0.7108 | | | 0.1000 | 5.6 | | 15.0 | | | |
| trans-1,2-Dichloroethene | 0.3247<br>0.3331 | 0.3115 | 0.3413 | 0.3269 | 0.3476 | Ave | | 0.3309 | | | 0.1000 | 3.9 | | 15.0 | | | |
| Hexane | 0.0397<br>0.0512 | 0.0343 | 0.0407 | 0.0432 | 0.0497 | Ave | | 0.0431 | | | | 15.0 | | 15.0 | | | |
| 1,1-Dichloroethane | 0.6254<br>0.6679 | 0.6197 | 0.6585 | 0.6494 | 0.6816 | Ave | | 0.6504 | | | 0.1000 | 3.7 | | 15.0 | | | |
| Vinyl acetate | 0.0327<br>0.0428 | 0.0332 | 0.0366 | 0.0381 | 0.0440 | Ave | | 0.0379 | | | | 12.0 | | 15.0 | | | |
| 2-Butanone | 0.1740<br>0.1347 | 0.1309 | 0.1420 | 0.1355 | 0.1436 | Ave | | 0.1434 | | | 0.0500 | 11.0 | | 15.0 | | | |
| cis-1,2-Dichloroethene | 0.3366<br>0.3461 | 0.3446 | 0.3556 | 0.3479 | 0.3633 | Ave | | 0.3490 | | | 0.1000 | 2.7 | | 15.0 | | | |
| 2,2-Dichloropropane | 0.2222<br>0.2905 | 0.2280 | 0.2554 | 0.2602 | 0.2941 | Ave | | 0.2584 | | | | 12.0 | | 15.0 | | | |
| Bromochloromethane | 0.1381<br>0.1470 | 0.1360 | 0.1474 | 0.1506 | 0.1535 | Ave | | 0.1454 | | | | 4.8 | | 15.0 | | | |
| Tetrahydrofuran | 0.1117<br>0.0863 | 0.0970 | 0.0944 | 0.0842 | 0.0925 | Ave | | 0.0944 | | | | 10.0 | | 15.0 | | | |
| Chloroform | 0.5276<br>0.5351 | 0.4911 | 0.5175 | 0.5152 | 0.5505 | Ave | | 0.5228 | | | | 3.9 | | 15.0 | | | |
| 1,1,1-Trichloroethane | 0.3487<br>0.4394 | 0.3554 | 0.3763 | 0.4020 | 0.4407 | Ave | | 0.3937 | | | 0.1000 | 10.0 | | 15.0 | | | |
| Cyclohexane | 0.5218<br>0.7519 | 0.5837 | 0.6294 | 0.6832 | 0.7258 | Ave | | 0.6493 | | | 0.1000 | 14.0 | | 15.0 | | | |
| 1,1-Dichloropropene | 0.3364<br>0.3821 | 0.3547 | 0.3491 | 0.3627 | 0.3860 | Ave | | 0.3618 | | | | 5.3 | | 15.0 | | | |
| Carbon tetrachloride | 0.2463<br>0.3514 | 0.2420 | 0.2831 | 0.3062 | 0.3407 | Linl | -0.167 | 0.3472 | | | 0.1000 | | | | 0.9970 | | 0.9950 |
| 1,2-Dichloroethane | 0.4421<br>0.4298 | 0.4100 | 0.4186 | 0.4137 | 0.4494 | Ave | | 0.4273 | | | 0.1000 | 3.7 | | 15.0 | | | |
| Benzene | 1.1834<br>1.2032 | 1.1025 | 1.1381 | 1.1389 | 1.2065 | Ave | | 1.1621 | | | 0.5000 | 3.6 | | 15.0 | | | |
| Trichloroethene | 0.2725<br>0.2825 | 0.2714 | 0.2654 | 0.2626 | 0.2924 | Ave | | 0.2745 | | | 0.2000 | 4.1 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-10808-1 Analy Batch No.: 43409

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/09/2012 16:50 Calibration End Date: 05/09/2012 18:43 Calibration ID: 8614

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Methylcyclohexane | 0.2834<br>0.4163 | 0.2994 | 0.3340 | 0.3600 | 0.3897 | Ave | | 0.3471 | | | 0.1000 | 15.0 | | 15.0 | | | |
| 1,2-Dichloropropane | 0.3163<br>0.3393 | 0.3026 | 0.3214 | 0.3206 | 0.3464 | Ave | | 0.3244 | | | 0.1000 | 4.9 | | 15.0 | | | |
| Dibromomethane | 0.1317<br>0.1397 | 0.1303 | 0.1368 | 0.1366 | 0.1460 | Ave | | 0.1369 | | | | 4.1 | | 15.0 | | | |
| 1,4-Dioxane | 0.0019<br>0.0018 | 0.0020 | 0.0021 | 0.0020 | 0.0021 | Ave | | 0.0020 | | | | 7.2 | | 15.0 | | | |
| Bromodichloromethane | 0.2564<br>0.3265 | 0.2419 | 0.2713 | 0.2771 | 0.3245 | Ave | | 0.2830 | | | 0.1000 | 12.0 | | 15.0 | | | |
| 2-Chloroethyl vinyl ether | 0.1506<br>0.1609 | 0.1383 | 0.1637 | 0.1582 | 0.1703 | Ave | | 0.1570 | | | | 7.1 | | 15.0 | | | |
| cis-1,3-Dichloropropene | 0.2551<br>0.3710 | 0.2499 | 0.2985 | 0.3081 | 0.3650 | Lin1 | -0.188 | 0.3666 | | | 0.1500 | | | | 0.9960 | | 0.9950 |
| 4-Methyl-2-pentanone | 0.2837<br>0.2990 | 0.2651 | 0.2929 | 0.2909 | 0.3111 | Ave | | 0.2905 | | | 0.0500 | 5.3 | | 15.0 | | | |
| Toluene | 1.6482<br>1.7043 | 1.5200 | 1.5382 | 1.5720 | 1.7039 | Ave | | 1.6145 | | | 0.4000 | 5.1 | | 15.0 | | | |
| trans-1,3-Dichloropropene | 0.2583<br>0.4170 | 0.2712 | 0.3095 | 0.3332 | 0.4003 | Qua | -0.269 | 0.3783 | 0.0012 | | 0.1000 | | | | 0.9990 | | 0.9900 |
| Ethyl methacrylate | 0.3360<br>0.4227 | 0.3466 | 0.3745 | 0.3996 | 0.4375 | Ave | | 0.3861 | | | | 11.0 | | 15.0 | | | |
| 1,1,2-Trichloroethane | 0.2835<br>0.2793 | 0.2694 | 0.2686 | 0.2750 | 0.2894 | Ave | | 0.2775 | | | 0.1000 | 2.9 | | 15.0 | | | |
| 1,3-Dichloropropane | 0.5297<br>0.5095 | 0.5041 | 0.4977 | 0.5018 | 0.5376 | Ave | | 0.5134 | | | | 3.2 | | 15.0 | | | |
| Tetrachloroethene | 0.2829<br>0.3018 | 0.2688 | 0.2694 | 0.2845 | 0.3065 | Ave | | 0.2856 | | | 0.2000 | 5.5 | | 15.0 | | | |
| 2-Hexanone | 0.2570<br>0.2616 | 0.2458 | 0.2583 | 0.2602 | 0.2737 | Ave | | 0.2594 | | | 0.0500 | 3.5 | | 15.0 | | | |
| Dibromochloromethane | 0.1998<br>0.2905 | 0.1878 | 0.2173 | 0.2406 | 0.2828 | Lin1 | -0.158 | 0.2858 | | | | | | | 0.9950 | | 0.9950 |
| 1,2-Dibromoethane | 0.2771<br>0.2885 | 0.2414 | 0.2810 | 0.2689 | 0.2989 | Ave | | 0.2760 | | | | 7.2 | | 15.0 | | | |
| Chlorobenzene | 1.0779<br>1.0958 | 1.0292 | 1.0419 | 1.0268 | 1.0997 | Ave | | 1.0619 | | | 0.3000 | 3.1 | | 15.0 | | | |
| 1,1,1,2-Tetrachloroethane | 0.2890<br>0.3687 | 0.2701 | 0.3001 | 0.3244 | 0.3603 | Ave | | 0.3188 | | | | 12.0 | | 15.0 | | | |
| Ethylbenzene | 0.5370<br>0.5872 | 0.5263 | 0.5398 | 0.5618 | 0.5955 | Ave | | 0.5579 | | | | 5.1 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-10808-1 Analy Batch No.: 43409

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/09/2012 16:50 Calibration End Date: 05/09/2012 18:43 Calibration ID: 8614

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| m-Xylene & p-Xylene | 0.6927<br>0.7473 | 0.6545 | 0.6868 | 0.6838 | 0.7439 | Ave | | 0.7015 | | | | 5.2 | | 15.0 | | | |
| o-Xylene | 0.6585<br>0.7303 | 0.6697 | 0.6826 | 0.7022 | 0.7337 | Ave | | 0.6962 | | | | 4.5 | | 15.0 | | | |
| Styrene | 1.0101<br>1.2393 | 1.0332 | 1.0826 | 1.1410 | 1.2330 | Ave | | 1.1232 | | | 0.3000 | 8.8 | | 15.0 | | | |
| Bromoform | 0.0997<br>0.1652 | 0.1002 | 0.1141 | 0.1314 | 0.1520 | Qua | -0.092 | 0.1394 | 0.0007 | | 0.1000 | | | | 1.0000 | | 0.9900 |
| Isopropylbenzene | 1.5686<br>1.8453 | 1.5081 | 1.5792 | 1.6843 | 1.7759 | Ave | | 1.6603 | | | 0.1000 | 7.9 | | 15.0 | | | |
| 1,1,2,2-Tetrachloroethane | 0.6421<br>0.6392 | 0.5897 | 0.6508 | 0.6293 | 0.6884 | Ave | | 0.6399 | | | 0.3000 | 5.0 | | 15.0 | | | |
| Bromobenzene | 0.7124<br>0.8007 | 0.7229 | 0.7655 | 0.7154 | 0.8316 | Ave | | 0.7581 | | | | 6.6 | | 15.0 | | | |
| 1,2,3-Trichloropropane | 0.2331<br>0.2050 | 0.1899 | 0.2018 | 0.2064 | 0.2197 | Ave | | 0.2093 | | | | 7.2 | | 15.0 | | | |
| trans-1,4-Dichloro-2-butene | 0.0972<br>0.1779 | 0.1139 | 0.1228 | 0.1331 | 0.1671 | Qua | -0.117 | 0.1526 | 0.0007 | | | | | | 0.9990 | | 0.9900 |
| n-Propylbenzene | 0.7268<br>0.8204 | 0.6778 | 0.7587 | 0.7438 | 0.8378 | Ave | | 0.7609 | | | | 7.8 | | 15.0 | | | |
| 2-Chlorotoluene | 0.6703<br>0.7397 | 0.6758 | 0.6924 | 0.6931 | 0.7657 | Ave | | 0.7061 | | | | 5.4 | | 15.0 | | | |
| 1,3,5-Trimethylbenzene | 2.0828<br>2.5959 | 2.0405 | 2.3124 | 2.3306 | 2.5681 | Ave | | 2.3217 | | | | 10.0 | | 15.0 | | | |
| 4-Chlorotoluene | 0.7205<br>0.7747 | 0.6930 | 0.7396 | 0.7189 | 0.7965 | Ave | | 0.7405 | | | | 5.2 | | 15.0 | | | |
| tert-Butylbenzene | 1.9330<br>2.3935 | 1.9972 | 1.9127 | 2.1455 | 2.3504 | Ave | | 2.1221 | | | | 9.9 | | 15.0 | | | |
| 1,2,4-Trimethylbenzene | 2.2784<br>2.6594 | 2.2133 | 2.3747 | 2.3863 | 2.6735 | Ave | | 2.4310 | | | | 8.0 | | 15.0 | | | |
| sec-Butylbenzene | 2.3140<br>2.8409 | 2.3222 | 2.4938 | 2.5429 | 2.7579 | Ave | | 2.5453 | | | | 8.6 | | 15.0 | | | |
| 1,3-Dichlorobenzene | 1.3846<br>1.4804 | 1.3348 | 1.4061 | 1.3608 | 1.4933 | Ave | | 1.4100 | | | 0.6000 | 4.6 | | 15.0 | | | |
| p-Isopropyltoluene | 1.8496<br>2.5189 | 1.9566 | 2.1436 | 2.2002 | 2.4336 | Ave | | 2.1837 | | | | 12.0 | | 15.0 | | | |
| 1,4-Dichlorobenzene | 1.5343<br>1.5331 | 1.3976 | 1.4633 | 1.4252 | 1.5585 | Ave | | 1.4853 | | | 0.5000 | 4.5 | | 15.0 | | | |
| n-Butylbenzene | 1.5207<br>2.0613 | 1.5638 | 1.6967 | 1.7858 | 1.9861 | Ave | | 1.7691 | | | | 12.0 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-10808-1 Analy Batch No.: 43409

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/09/2012 16:50 Calibration End Date: 05/09/2012 18:43 Calibration ID: 8614

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 1,2-Dichlorobenzene | 1.3844<br>1.4205 | 1.3540 | 1.3870 | 1.3472 | 1.4582 | Ave | | 1.3919 | | | 0.4000 | 3.0 | | 15.0 | | | |
| 1,2-Dibromo-3-Chloropropane | 0.0794<br>0.0870 | 0.0683 | 0.0814 | 0.0746 | 0.0883 | Ave | | 0.0798 | | | 0.0500 | 9.5 | | 15.0 | | | |
| 1,3,5-Trichlorobenzene | 0.7539<br>0.8344 | 0.7656 | 0.7991 | 0.8104 | 0.8665 | Ave | | 0.8050 | | | | 5.2 | | 15.0 | | | |
| 1,2,4-Trichlorobenzene | 0.6479<br>0.6976 | 0.6519 | 0.6850 | 0.7123 | 0.7408 | Ave | | 0.6892 | | | 0.2000 | 5.2 | | 15.0 | | | |
| Hexachlorobutadiene | 0.2984<br>0.2880 | 0.3131 | 0.3156 | 0.3236 | 0.3074 | Ave | | 0.3077 | | | | 4.2 | | 15.0 | | | |
| Naphthalene | 1.3167<br>1.5171 | 1.2964 | 1.5138 | 1.5269 | 1.6839 | Ave | | 1.4758 | | | | 9.9 | | 15.0 | | | |
| 1,2,3-Trichlorobenzene | 0.6093<br>0.5088 | 0.5775 | 0.5956 | 0.5994 | 0.6006 | Ave | | 0.5819 | | | | 6.4 | | 15.0 | | | |
| Dibromofluoromethane (Surr) | 0.2449<br>0.2557 | 0.2414 | 0.2613 | 0.2511 | 0.2697 | Ave | | 0.2540 | | | | 4.1 | | 15.0 | | | |
| 1,2-Dichloroethane-d4 (Surr) | 0.3352<br>0.3180 | 0.3022 | 0.3162 | 0.3092 | 0.3364 | Ave | | 0.3195 | | | | 4.3 | | 15.0 | | | |
| Toluene-d8 (Surr) | 1.3399<br>1.4228 | 1.2843 | 1.2848 | 1.3063 | 1.4382 | Ave | | 1.3460 | | | | 5.1 | | 15.0 | | | |
| 4-Bromofluorobenzene (Surr) | 0.5239<br>0.5294 | 0.5089 | 0.5007 | 0.5033 | 0.5393 | Ave | | 0.5176 | | | | 3.0 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

ICV

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Lab Sample ID: ICV 240-43409/8 Calibration Date: 05/09/2012 19:06

Instrument ID: A3UX16 Calib Start Date: 04/29/2012 17:57

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/29/2012 19:50

Lab File ID: UXM5666.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Ethyl ether | Ave | 0.3182 | 0.3514 | | 11.0 | 10.0 | 10.4 | 20.0 |
| Diisopropyl ether | Ave | 0.2775 | 0.2746 | | 9.89 | 10.0 | -1.1 | 20.0 |
| Isobutyl alcohol | Ave | 0.0086 | 0.0089 | | 517 | 500 | 3.5 | 20.0 |
| Cyclohexanone | Lin1 | | 0.0196 | | 41.7 | 200 | -79.2* | 20.0 |
| 1,2,3-Trimethylbenzene | Ave | 2.982 | 2.571 | | 8.62 | 10.0 | -13.8 | 20.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

ICV

Lab Name: TestAmerica Canton  Job No.: 240-10808-1

SDG No.:

Lab Sample ID: ICV 240-43409/8  Calibration Date: 05/09/2012 19:06

Instrument ID: A3UX16  Calib Start Date: 05/09/2012 16:50

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 05/09/2012 18:43

Lab File ID: UXM5666.D  Conc. Units: ug/L  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | Ave | 0.2901 | 0.2045 | 0.1000 | 7.05 | 10.0 | -29.5* | 20.0 |
| Chloromethane | Ave | 0.6503 | 0.5741 | 0.1000 | 8.83 | 10.0 | -11.7 | 20.0 |
| Vinyl chloride | Ave | 0.4512 | 0.4382 | 0.1000 | 9.71 | 10.0 | -2.9 | 20.0 |
| Bromomethane | Ave | 0.1775 | 0.1621 | 0.0500 | 9.13 | 10.0 | -8.7 | 20.0 |
| Chloroethane | Ave | 0.2524 | 0.2375 | 0.0500 | 9.41 | 10.0 | -5.9 | 20.0 |
| Trichlorofluoromethane | Ave | 0.3195 | 0.3224 | 0.1000 | 10.1 | 10.0 | 0.9 | 20.0 |
| Acrolein | Ave | 0.0602 | 0.0316 | | 15.7 | 30.0 | -47.6* | 20.0 |
| 1,1-Dichloroethene | Ave | 0.2733 | 0.2968 | 0.1000 | 10.9 | 10.0 | 8.6 | 20.0 |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | Ave | 0.1842 | 0.2129 | 0.0500 | 11.6 | 10.0 | 15.6 | 20.0 |
| Acetone | Lin1 | | 0.1000 | 0.0500 | 18.6 | 20.0 | -7.0 | 20.0 |
| Iodomethane | Ave | 0.4830 | 0.4930 | | 10.2 | 10.0 | 2.1 | 20.0 |
| Carbon disulfide | Ave | 0.8906 | 0.9121 | 0.1000 | 10.2 | 10.0 | 2.4 | 20.0 |
| Acetonitrile | Ave | 0.0451 | 0.0442 | | 29.4 | 30.0 | -2.0 | 20.0 |
| Methyl acetate | Ave | 0.2598 | 0.2961 | 0.1000 | 11.4 | 10.0 | 14.0 | 20.0 |
| Methylene Chloride | Lin1 | | 0.3698 | 0.1000 | 10.1 | 10.0 | 1.0 | 20.0 |
| tert-Butyl alcohol | Ave | 0.0178 | 0.0177 | | 198 | 200 | -1.0 | 20.0 |
| Acrylonitrile | Ave | 0.1429 | 0.1377 | | 28.9 | 30.0 | -3.6 | 20.0 |
| Methyl tert-butyl ether | Ave | 0.7108 | 0.7047 | 0.1000 | 9.91 | 10.0 | -0.9 | 20.0 |
| trans-1,2-Dichloroethene | Ave | 0.3309 | 0.3422 | 0.1000 | 10.3 | 10.0 | 3.4 | 20.0 |
| Hexane | Ave | 0.0431 | 0.0478 | | 11.1 | 10.0 | 10.8 | 20.0 |
| 1,1-Dichloroethane | Ave | 0.6504 | 0.6789 | 0.1000 | 10.4 | 10.0 | 4.4 | 20.0 |
| Vinyl acetate | Ave | 0.0379 | 0.0349 | | 9.19 | 10.0 | -8.1 | 20.0 |
| 2-Butanone | Ave | 0.1434 | 0.1319 | 0.0500 | 18.4 | 20.0 | -8.1 | 20.0 |
| 2,2-Dichloropropane | Ave | 0.2584 | 0.2680 | | 10.4 | 10.0 | 3.7 | 20.0 |
| cis-1,2-Dichloroethene | Ave | 0.3490 | 0.3544 | 0.1000 | 10.2 | 10.0 | 1.5 | 20.0 |
| Bromochloromethane | Ave | 0.1454 | 0.1487 | | 10.2 | 10.0 | 2.2 | 20.0 |
| Tetrahydrofuran | Ave | 0.0944 | 0.0879 | | 9.32 | 10.0 | -6.8 | 20.0 |
| Chloroform | Ave | 0.5228 | 0.5335 | 0.2000 | 10.2 | 10.0 | 2.0 | 20.0 |
| 1,1,1-Trichloroethane | Ave | 0.3937 | 0.4102 | 0.1000 | 10.4 | 10.0 | 4.2 | 20.0 |
| Cyclohexane | Ave | 0.6493 | 0.6633 | 0.1000 | 10.2 | 10.0 | 2.2 | 20.0 |
| 1,1-Dichloropropene | Ave | 0.3618 | 0.3695 | | 10.2 | 10.0 | 2.1 | 20.0 |
| Carbon tetrachloride | Lin1 | | 0.3100 | 0.1000 | 9.41 | 10.0 | -5.9 | 20.0 |
| 1,2-Dichloroethane | Ave | 0.4273 | 0.4347 | 0.1000 | 10.2 | 10.0 | 1.7 | 20.0 |
| Benzene | Ave | 1.162 | 1.177 | 0.5000 | 10.1 | 10.0 | 1.2 | 20.0 |
| Trichloroethene | Ave | 0.2745 | 0.2806 | 0.2000 | 10.2 | 10.0 | 2.2 | 20.0 |
| 1,2-Dichloropropane | Ave | 0.3244 | 0.3251 | 0.1000 | 10.0 | 10.0 | 0.2 | 20.0 |
| Methylcyclohexane | Ave | 0.3471 | 0.3473 | 0.1000 | 10.0 | 10.0 | 0.0 | 20.0 |
| Dibromomethane | Ave | 0.1369 | 0.1442 | | 10.5 | 10.0 | 5.4 | 20.0 |
| Bromodichloromethane | Ave | 0.2830 | 0.2938 | 0.1000 | 10.4 | 10.0 | 3.8 | 20.0 |
| 2-Chloroethyl vinyl ether | Ave | 0.1570 | 0.1413 | | 9.00 | 10.0 | -10.0 | 20.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

ICV

Lab Name: TestAmerica Canton  Job No.: 240-10808-1

SDG No.:

Lab Sample ID: ICV 240-43409/8  Calibration Date: 05/09/2012 19:06

Instrument ID: A3UX16  Calib Start Date: 05/09/2012 16:50

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 05/09/2012 18:43

Lab File ID: UXM5666.D  Conc. Units: ug/L  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | Linl | | 0.3014 | 0.1500 | 8.73 | 10.0 | -12.7 | 20.0 |
| 4-Methyl-2-pentanone | Ave | 0.2905 | 0.2896 | 0.0500 | 19.9 | 20.0 | -0.3 | 20.0 |
| Toluene | Ave | 1.614 | 1.572 | 0.4000 | 9.74 | 10.0 | -2.6 | 20.0 |
| trans-1,3-Dichloropropene | Qua | | 0.3327 | 0.1000 | 9.24 | 10.0 | -7.6 | 20.0 |
| 1,1,2-Trichloroethane | Ave | 0.2775 | 0.2762 | 0.1000 | 9.95 | 10.0 | -0.5 | 20.0 |
| 1,3-Dichloropropane | Ave | 0.5134 | 0.4975 | | 9.69 | 10.0 | -3.1 | 20.0 |
| Tetrachloroethene | Ave | 0.2856 | 0.2813 | 0.2000 | 9.85 | 10.0 | -1.5 | 20.0 |
| 2-Hexanone | Ave | 0.2594 | 0.2452 | 0.0500 | 18.9 | 20.0 | -5.5 | 20.0 |
| Dibromochloromethane | Linl | | 0.2350 | | 8.77 | 10.0 | -12.3 | 20.0 |
| 1,2-Dibromoethane | Ave | 0.2760 | 0.2737 | | 9.92 | 10.0 | -0.8 | 20.0 |
| Chlorobenzene | Ave | 1.062 | 1.051 | 0.3000 | 9.90 | 10.0 | -1.0 | 20.0 |
| 1,1,1,2-Tetrachloroethane | Ave | 0.3188 | 0.3286 | | 10.3 | 10.0 | 3.1 | 20.0 |
| Ethylbenzene | Ave | 0.5579 | 0.5654 | | 10.1 | 10.0 | 1.3 | 20.0 |
| m-Xylene & p-Xylene | Ave | 0.7015 | 0.6978 | | 19.9 | 20.0 | -0.5 | 20.0 |
| o-Xylene | Ave | 0.6962 | 0.7046 | | 10.1 | 10.0 | 1.2 | 20.0 |
| Styrene | Ave | 1.123 | 1.167 | 0.3000 | 10.4 | 10.0 | 3.9 | 20.0 |
| Bromoform | Qua | | 0.1291 | 0.1000 | 9.47 | 10.0 | -5.3 | 20.0 |
| Isopropylbenzene | Ave | 1.660 | 1.692 | 0.1000 | 10.2 | 10.0 | 1.9 | 20.0 |
| 1,1,2,2-Tetrachloroethane | Ave | 0.6399 | 0.6196 | 0.3000 | 9.68 | 10.0 | -3.2 | 20.0 |
| Bromobenzene | Ave | 0.7581 | 0.7479 | | 9.87 | 10.0 | -1.3 | 20.0 |
| 1,2,3-Trichloropropane | Ave | 0.2093 | 0.1984 | | 9.48 | 10.0 | -5.2 | 20.0 |
| trans-1,4-Dichloro-2-butene | Qua | | 0.1324 | | 16.8 | 20.0 | -16.0 | 20.0 |
| n-Propylbenzene | Ave | 0.7609 | 0.7738 | | 10.2 | 10.0 | 1.7 | 20.0 |
| 2-Chlorotoluene | Ave | 0.7061 | 0.7155 | | 10.1 | 10.0 | 1.3 | 20.0 |
| 1,3,5-Trimethylbenzene | Ave | 2.322 | 2.338 | | 10.1 | 10.0 | 0.7 | 20.0 |
| 4-Chlorotoluene | Ave | 0.7405 | 0.7420 | | 10.0 | 10.0 | 0.2 | 20.0 |
| tert-Butylbenzene | Ave | 2.122 | 2.147 | | 10.1 | 10.0 | 1.2 | 20.0 |
| 1,2,4-Trimethylbenzene | Ave | 2.431 | 2.470 | | 10.2 | 10.0 | 1.6 | 20.0 |
| sec-Butylbenzene | Ave | 2.545 | 2.467 | | 9.69 | 10.0 | -3.1 | 20.0 |
| 1,3-Dichlorobenzene | Ave | 1.410 | 1.419 | 0.6000 | 10.1 | 10.0 | 0.6 | 20.0 |
| p-Isopropyltoluene | Ave | 2.184 | 2.305 | | 10.6 | 10.0 | 5.5 | 20.0 |
| 1,4-Dichlorobenzene | Ave | 1.485 | 1.439 | 0.5000 | 9.69 | 10.0 | -3.1 | 20.0 |
| n-Butylbenzene | Ave | 1.769 | 1.800 | | 10.2 | 10.0 | 1.7 | 20.0 |
| 1,2-Dichlorobenzene | Ave | 1.392 | 1.345 | 0.4000 | 9.66 | 10.0 | -3.4 | 20.0 |
| 1,2-Dibromo-3-Chloropropane | Ave | 0.0798 | 0.0779 | 0.0500 | 9.76 | 10.0 | -2.4 | 20.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.6892 | 0.6576 | 0.2000 | 9.54 | 10.0 | -4.6 | 20.0 |
| Hexachlorobutadiene | Ave | 0.3077 | 0.2672 | | 8.69 | 10.0 | -13.1 | 20.0 |
| Naphthalene | Ave | 1.476 | 1.471 | | 9.97 | 10.0 | -0.3 | 20.0 |
| 1,2,3-Trichlorobenzene | Ave | 0.5819 | 0.5595 | | 9.61 | 10.0 | -3.9 | 20.0 |
| Dibromofluoromethane (Surr) | Ave | 0.2540 | 0.2365 | | 9.50 | 10.2 | -6.9 | 20.0 |
| 1,2-Dichloroethane-d4 (Surr) | Ave | 0.3195 | 0.2929 | | 9.36 | 10.2 | -8.3 | 20.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

ICV

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Lab Sample ID: ICV 240-43409/8 Calibration Date: 05/09/2012 19:06

Instrument ID: A3UX16 Calib Start Date: 05/09/2012 16:50

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 05/09/2012 18:43

Lab File ID: UXM5666.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Toluene-d8 (Surr) | Ave | 1.346 | 1.233 | | 9.35 | 10.2 | -8.4 | 20.0 |
| 4-Bromofluorobenzene (Surr) | Ave | 0.5176 | 0.4948 | | 9.76 | 10.2 | -4.4 | 20.0 |

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Lab File ID: BFB2952.D BFB Injection Date: 05/10/2012

Instrument ID: A3UX16 BFB Injection Time: 10:23

Analysis Batch No.: 43549

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 50 | 15.0 - 40.0 % of mass 95 | 26.4 | |
| 75 | 30.0 - 60.0 % of mass 95 | 47.0 | |
| 95 | Base Peak, 100% relative abundance | 100.0 | |
| 96 | 5.0 - 9.0 % of mass 95 | 6.3 | |
| 173 | Less than 2.0 % of mass 174 | 0.4 | (0.5)1 |
| 174 | 50.0 - 120.00 % of mass 95 | 78.6 | |
| 175 | 5.0 - 9.0 % of mass 174 | 4.8 | (6.1)1 |
| 176 | 95.0 - 101.0 % of mass 174 | 77.5 | (98.6)1 |
| 177 | 5.0 - 9.0 % of mass 176 | 5.0 | (6.5)2 |

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | CCVIS 240-43549/2 | UXM5692.D | 05/10/2012 | 10:53 |
| | CCV 240-43549/3 | UXM5693.D | 05/10/2012 | 11:16 |
| | LCS 240-43549/4 | UXM5694.D | 05/10/2012 | 11:39 |
| | MB 240-43549/5 | UXM5695.D | 05/10/2012 | 12:02 |
| TB-043012 | 240-10808-1 | UXM5696.D | 05/10/2012 | 12:25 |
| GSP-MW5-043012 | 240-10808-2 | UXM5697.D | 05/10/2012 | 12:47 |
| GSP-MW6-043012 | 240-10808-3 | UXM5698.D | 05/10/2012 | 13:10 |
| MT-MW02S-043012 | 240-10808-4 | UXM5699.D | 05/10/2012 | 13:33 |
| | 240-10837-D-5 MS | UXM5716.D | 05/10/2012 | 19:58 |
| | 240-10837-E-5 MSD | UXM5717.D | 05/10/2012 | 20:21 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Lab Sample ID: CCVIS 240-43549/2 Calibration Date: 05/10/2012 10:53

Instrument ID: A3UX16 Calib Start Date: 05/09/2012 16:50

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 05/09/2012 18:43

Lab File ID: UXM5692.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | Ave | 0.2901 | 0.2790 | 0.1000 | 9.62 | 10.0 | -3.8 | 20.0 |
| Chloromethane | Ave | 0.6503 | 0.6113 | 0.1000 | 9.40 | 10.0 | -6.0 | 20.0 |
| Vinyl chloride | Ave | 0.4512 | 0.4262 | 0.1000 | 9.45 | 10.0 | -5.5 | 20.0 |
| Bromomethane | Ave | 0.1775 | 0.1770 | 0.0500 | 9.97 | 10.0 | -0.3 | 20.0 |
| Chloroethane | Ave | 0.2524 | 0.2504 | 0.0500 | 9.92 | 10.0 | -0.8 | 20.0 |
| Trichlorofluoromethane | Ave | 0.3195 | 0.3217 | 0.1000 | 10.1 | 10.0 | 0.7 | 20.0 |
| Acrolein | Ave | 0.0602 | 0.0539 | | 89.5 | 100 | -10.5 | 20.0 |
| 1,1-Dichloroethene | Ave | 0.2733 | 0.2791 | 0.1000 | 10.2 | 10.0 | 2.1 | 20.0 |
| 1,1,2-Trichloro-1,2,2-trichf luoroethane | Ave | 0.1842 | 0.2017 | 0.0500 | 11.0 | 10.0 | 9.5 | 20.0 |
| Acetone | Lin1 | | 0.0988 | 0.0500 | 18.3 | 20.0 | -8.5 | 20.0 |
| Iodomethane | Ave | 0.4830 | 0.4722 | | 9.78 | 10.0 | -2.2 | 20.0 |
| Carbon disulfide | Ave | 0.8906 | 0.9826 | 0.1000 | 11.0 | 10.0 | 10.3 | 20.0 |
| Acetonitrile | Ave | 0.0451 | 0.0445 | | 98.8 | 100 | -1.2 | 20.0 |
| Methyl acetate | Ave | 0.2598 | 0.2519 | 0.1000 | 19.4 | 20.0 | -3.0 | 20.0 |
| Methylene Chloride | Lin1 | | 0.3834 | 0.1000 | 10.5 | 10.0 | 5.0 | 20.0 |
| tert-Butyl alcohol | Ave | 0.0178 | 0.0166 | | 186 | 200 | -7.1 | 20.0 |
| Acrylonitrile | Ave | 0.1429 | 0.1377 | | 19.3 | 20.0 | -3.6 | 20.0 |
| Methyl tert-butyl ether | Ave | 0.7108 | 0.6763 | 0.1000 | 9.52 | 10.0 | -4.8 | 20.0 |
| trans-1,2-Dichloroethene | Ave | 0.3309 | 0.3410 | 0.1000 | 10.3 | 10.0 | 3.1 | 20.0 |
| Hexane | Ave | 0.0431 | 0.0483 | N.F.C. | 11.2 | 10.0 | 12.1 | 20.0 |
| 1,1-Dichloroethane | Ave | 0.6504 | 0.6517 | 0.1000 | 10.0 | 10.0 | 0.2 | 20.0 |
| Vinyl acetate | Ave | 0.0379 | 0.0403 | | 10.6 | 10.0 | 6.2 | 20.0 |
| 2-Butanone | Ave | 0.1434 | 0.1404 | 0.0500 | 19.6 | 20.0 | -2.1 | 20.0 |
| cis-1,2-Dichloroethene | Ave | 0.3490 | 0.3372 | 0.1000 | 9.66 | 10.0 | -3.4 | 20.0 |
| 2,2-Dichloropropane | Ave | 0.2584 | 0.2768 | | 10.7 | 10.0 | 7.1 | 20.0 |
| Bromochloromethane | Ave | 0.1454 | 0.1447 | | 9.95 | 10.0 | -0.5 | 20.0 |
| Tetrahydrofuran | Ave | 0.0944 | 0.0879 | | 9.32 | 10.0 | -6.8 | 20.0 |
| Chloroform | Ave | 0.5228 | 0.5315 | 0.2000 | 10.2 | 10.0 | 1.7 | 20.0 |
| 1,1,1-Trichloroethane | Ave | 0.3937 | 0.4191 | 0.1000 | 10.6 | 10.0 | 6.4 | 20.0 |
| Cyclohexane | Ave | 0.6493 | 0.6985 | 0.1000 | 10.8 | 10.0 | 7.6 | 20.0 |
| 1,1-Dichloropropene | Ave | 0.3618 | 0.3859 | | 10.7 | 10.0 | 6.6 | 20.0 |
| Carbon tetrachloride | Lin1 | | 0.3255 | 0.1000 | 9.86 | 10.0 | -1.4 | 20.0 |
| 1,2-Dichloroethane | Ave | 0.4273 | 0.4578 | 0.1000 | 10.7 | 10.0 | 7.1 | 20.0 |
| Benzene | Ave | 1.162 | 1.187 | 0.5000 | 10.2 | 10.0 | 2.2 | 20.0 |
| Trichloroethene | Ave | 0.2745 | 0.2912 | 0.2000 | 10.6 | 10.0 | 6.1 | 20.0 |
| Methylcyclohexane | Ave | 0.3471 | 0.3832 | 0.1000 | 11.0 | 10.0 | 10.4 | 20.0 |
| 1,2-Dichloropropane | Ave | 0.3244 | 0.3319 | 0.1000 | 10.2 | 10.0 | 2.3 | 20.0 |
| Dibromomethane | Ave | 0.1369 | 0.1455 | | 10.6 | 10.0 | 6.3 | 20.0 |
| 1,4-Dioxane | Ave | 0.0020 | 0.0018 | | 457 | 500 | -8.7 | 20.0 |
| Bromodichloromethane | Ave | 0.2830 | 0.3185 | 0.1000 | 11.3 | 10.0 | 12.6 | 20.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-10808-1

SDG No.:

Lab Sample ID: CCVIS 240-43549/2  Calibration Date: 05/10/2012 10:53

Instrument ID: A3UX16  Calib Start Date: 05/09/2012 16:50

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 05/09/2012 18:43

Lab File ID: UXM5692.D  Conc. Units: ug/L  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 2-Chloroethyl vinyl ether | Ave | 0.1570 | 0.1558 | | 19.9 | 20.0 | -0.7 | 20.0 |
| cis-1,3-Dichloropropene | Lin1 | | 0.3284 | 0.1500 | 9.47 | 10.0 | -5.3 | 20.0 |
| 4-Methyl-2-pentanone | Ave | 0.2905 | 0.2951 | 0.0500 | 20.3 | 20.0 | 1.6 | 20.0 |
| Toluene | Ave | 1.614 | 1.737 | 0.4000 | 10.8 | 10.0 | 7.6 | 20.0 |
| trans-1,3-Dichloropropene | Qua | | 0.3546 | 0.1000 | 9.79 | 10.0 | -2.1 | 20.0 |
| Ethyl methacrylate | Ave | 0.3861 | 0.4404 | | 11.4 | 10.0 | 14.1 | 20.0 |
| 1,1,2-Trichloroethane | Ave | 0.2775 | 0.2924 | 0.1000 | 10.5 | 10.0 | 5.3 | 20.0 |
| 1,3-Dichloropropane | Ave | 0.5134 | 0.5380 | | 10.5 | 10.0 | 4.8 | 20.0 |
| Tetrachloroethene | Ave | 0.2856 | 0.3170 | 0.2000 | 11.1 | 10.0 | 11.0 | 20.0 |
| 2-Hexanone | Ave | 0.2594 | 0.2762 | 0.0500 | 21.3 | 20.0 | 6.5 | 20.0 |
| Dibromochloromethane | Lin1 | | 0.2723 | | 10.1 | 10.0 | 1.0 | 20.0 |
| 1,2-Dibromoethane | Ave | 0.2760 | 0.2994 | | 10.9 | 10.0 | 8.5 | 20.0 |
| Chlorobenzene | Ave | 1.062 | 1.117 | 0.3000 | 10.5 | 10.0 | 5.2 | 20.0 |
| 1,1,1,2-Tetrachloroethane | Ave | 0.3188 | 0.3682 | | 11.5 | 10.0 | 15.5 | 20.0 |
| Ethylbenzene | Ave | 0.5579 | 0.6165 | | 11.0 | 10.0 | 10.5 | 20.0 |
| m-Xylene & p-Xylene | Ave | 0.7015 | 0.7510 | | 21.4 | 20.0 | 7.1 | 20.0 |
| o-Xylene | Ave | 0.6962 | 0.7534 | | 10.8 | 10.0 | 8.2 | 20.0 |
| Styrene | Ave | 1.123 | 1.258 | 0.3000 | 11.2 | 10.0 | 12.0 | 20.0 |
| Bromoform | Qua | | 0.1388 | 0.1000 | 10.1 | 10.0 | 1.0 | 20.0 |
| Isopropylbenzene | Ave | 1.660 | 1.794 | 0.1000 | 10.8 | 10.0 | 8.1 | 20.0 |
| 1,1,2,2-Tetrachloroethane | Ave | 0.6399 | 0.6643 | 0.3000 | 10.4 | 10.0 | 3.8 | 20.0 |
| Bromobenzene | Ave | 0.7581 | 0.7834 | | 10.3 | 10.0 | 3.3 | 20.0 |
| 1,2,3-Trichloropropane | Ave | 0.2093 | 0.2152 | | 10.3 | 10.0 | 2.8 | 20.0 |
| trans-1,4-Dichloro-2-butene | Qua | | 0.0543 | | 4.24 | 10.0 | -57.6* | 20.0 |
| n-Propylbenzene | Ave | 0.7609 | 0.8162 | | 10.7 | 10.0 | 7.3 | 20.0 |
| 2-Chlorotoluene | Ave | 0.7061 | 0.7430 | | 10.5 | 10.0 | 5.2 | 20.0 |
| 1,3,5-Trimethylbenzene | Ave | 2.322 | 2.504 | | 10.8 | 10.0 | 7.9 | 20.0 |
| 4-Chlorotoluene | Ave | 0.7405 | 0.8068 | | 10.9 | 10.0 | 8.9 | 20.0 |
| tert-Butylbenzene | Ave | 2.122 | 2.300 | | 10.8 | 10.0 | 8.4 | 20.0 |
| 1,2,4-Trimethylbenzene | Ave | 2.431 | 2.614 | | 10.8 | 10.0 | 7.5 | 20.0 |
| sec-Butylbenzene | Ave | 2.545 | 2.730 | | 10.7 | 10.0 | 7.3 | 20.0 |
| 1,3-Dichlorobenzene | Ave | 1.410 | 1.472 | 0.6000 | 10.4 | 10.0 | 4.4 | 20.0 |
| p-Isopropyltoluene | Ave | 2.184 | 2.381 | | 10.9 | 10.0 | 9.0 | 20.0 |
| 1,4-Dichlorobenzene | Ave | 1.485 | 1.576 | 0.5000 | 10.6 | 10.0 | 6.1 | 20.0 |
| n-Butylbenzene | Ave | 1.769 | 1.900 | | 10.7 | 10.0 | 7.4 | 20.0 |
| 1,2-Dichlorobenzene | Ave | 1.392 | 1.409 | 0.4000 | 10.1 | 10.0 | 1.2 | 20.0 |
| 1,2-Dibromo-3-Chloropropane | Ave | 0.0798 | 0.0780 | 0.0500 | 9.77 | 10.0 | -2.3 | 20.0 |
| 1,3,5-Trichlorobenzene | Ave | 0.8050 | 0.8184 | | 10.2 | 10.0 | 1.7 | 20.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.6892 | 0.6691 | 0.2000 | 9.71 | 10.0 | -2.9 | 20.0 |
| Hexachlorobutadiene | Ave | 0.3077 | 0.3034 | | 9.86 | 10.0 | -1.4 | 20.0 |
| Naphthalene | Ave | 1.476 | 1.368 | | 9.27 | 10.0 | -7.3 | 20.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Lab Sample ID: CCVIS 240-43549/2 Calibration Date: 05/10/2012 10:53

Instrument ID: A3UX16 Calib Start Date: 05/09/2012 16:50

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 05/09/2012 18:43

Lab File ID: UXM5692.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 1,2,3-Trichlorobenzene | Ave | 0.5819 | 0.5411 | | 9.30 | 10.0 | -7.0 | 20.0 |
| Dibromofluoromethane (Surr) | Ave | 0.2540 | 0.2445 | | 9.83 | 10.2 | -3.7 | 20.0 |
| 1,2-Dichloroethane-d4 (Surr) | Ave | 0.3195 | 0.3043 | | 9.72 | 10.2 | -4.8 | 20.0 |
| Toluene-d8 (Surr) | Ave | 1.346 | 1.370 | | 10.4 | 10.2 | 1.8 | 20.0 |
| 4-Bromofluorobenzene (Surr) | Ave | 0.5176 | 0.5247 | | 10.3 | 10.2 | 1.4 | 20.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-10808-1

SDG No.:

Lab Sample ID: CCV 240-43549/3  Calibration Date: 05/10/2012 11:16

Instrument ID: A3UX16  Calib Start Date: 04/29/2012 17:57

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 04/29/2012 19:50

Lab File ID: UXM5693.D  Conc. Units: ug/L  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorofluoromethane | Ave | 0.5291 | 0.4896 | | 9.25 | 10.0 | -7.5 | 20.0 |
| Ethyl ether | Ave | 0.3182 | 0.3276 | | 10.3 | 10.0 | 2.9 | 20.0 |
| 3-Chloro-1-propene | Ave | 0.1408 | 0.1484 | | 10.5 | 10.0 | 5.4 | 20.0 |
| Diisopropyl ether | Ave | 0.2775 | 0.2850 | | 51.4 | 50.0 | 2.7 | 20.0 |
| 2-Chloro-1,3-butadiene | Ave | 0.5156 | 0.6754 | | 13.1 | 10.0 | 31.0* | 20.0 |
| Ethyl-t-butyl ether (ETBE) | Ave | 0.8899 | 1.041 | | 11.7 | 10.0 | 16.9 | 20.0 |
| Propionitrile | Ave | 0.0386 | 0.0464 | | 24.0 | 20.0 | 20.1* | 20.0 |
| Ethyl acetate | Ave | 0.2719 | 0.2669 | | 19.6 | 20.0 | -1.8 | 20.0 |
| Methacrylonitrile | Ave | 0.1921 | 0.1929 | | 10.0 | 10.0 | 0.4 | 20.0 |
| Isobutyl alcohol | Ave | 0.0086 | 0.0091 | | 210 | 200 | 5.0 | 20.0 |
| Tert-amyl-methyl ether (TAME) | Ave | 0.7157 | 0.6111 | | 8.54 | 10.0 | -14.6 | 20.0 |
| n-Heptane | Ave | 0.0406 | 0.0423 | | 10.4 | 10.0 | 4.1 | 20.0 |
| n-Butanol | Lin1 | | 0.0066 | | 197 | 200 | -1.7 | 20.0 |
| 2-Nitropropane | Qua | | 0.0411 | | 19.9 | 20.0 | -0.5 | 20.0 |
| Cyclohexanone | Lin1 | | 0.0552 | | 56.6 | 100 | -43.4* | 20.0 |
| 1,2,3-Trimethylbenzene | Ave | 2.982 | 2.606 | | 8.74 | 10.0 | -12.6 | 20.0 |
| 2-Methylnaphthalene | Qua | | 0.3582 | | 8.10 | 20.0 | -59.5* | 20.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-10808-1

SDG No.:

Lab Sample ID: CCV 240-43549/3  Calibration Date: 05/10/2012 11:16

Instrument ID: A3UX16  Calib Start Date: 05/09/2012 16:50

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 05/09/2012 18:43

Lab File ID: UXM5693.D  Conc. Units: ug/L  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dibromofluoromethane (Surr) | Ave | 0.2540 | 0.2276 | | 9.15 | 10.2 | -10.4 | 20.0 |
| 1,2-Dichloroethane-d4 (Surr) | Ave | 0.3195 | 0.2873 | | 9.18 | 10.2 | -10.1 | 20.0 |
| Toluene-d8 (Surr) | Ave | 1.346 | 1.243 | | 9.43 | 10.2 | -7.7 | 20.0 |
| 4-Bromofluorobenzene (Surr) | Ave | 0.5176 | 0.4929 | | 9.72 | 10.2 | -4.8 | 20.0 |

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Lab File ID: UXM5695.D Lab Sample ID: MB 240-43549/5

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX16 Date Analyzed: 05/10/2012 12:02

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| | LCS 240-43549/4 | UXM5694.D | 05/10/2012 11:39 |
| TB-043012 | 240-10808-1 | UXM5696.D | 05/10/2012 12:25 |
| GSP-MW5-043012 | 240-10808-2 | UXM5697.D | 05/10/2012 12:47 |
| GSP-MW6-043012 | 240-10808-3 | UXM5698.D | 05/10/2012 13:10 |
| MT-MW02S-043012 | 240-10808-4 | UXM5699.D | 05/10/2012 13:33 |
| | 240-10837-D-5 MS | UXM5716.D | 05/10/2012 19:58 |
| | 240-10837-E-5 MSD | UXM5717.D | 05/10/2012 20:21 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-43549/5

Matrix: Water Lab File ID: UXM5695.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 05/10/2012 12:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 43549 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.23 |
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 1.0 | 0.22 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.18 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0 | U | 1.0 | 0.28 |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.15 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.19 |
| 563-58-6 | 1,1-Dichloropropene | 1.0 | U | 1.0 | 0.13 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.372 | J | 1.0 | 0.17 |
| 96-18-4 | 1,2,3-Trichloropropane | 1.0 | U | 1.0 | 0.43 |
| 526-73-8 | 1,2,3-Trimethylbenzene | 5.0 | U | 5.0 | 0.0059 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.247 | J | 1.0 | 0.15 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.12 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 2.0 | U | 2.0 | 0.67 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.13 |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.22 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.18 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.14 |
| 142-28-9 | 1,3-Dichloropropane | 1.0 | U | 1.0 | 0.16 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.13 |
| 594-20-7 | 2,2-Dichloropropane | 1.0 | U | 1.0 | 0.13 |
| 110-75-8 | 2-Chloroethyl vinyl ether | 10 | U | 10 | 0.99 |
| 95-49-8 | 2-Chlorotoluene | 1.0 | U | 1.0 | 0.11 |
| 591-78-6 | 2-Hexanone | 10 | U | 10 | 0.41 |
| 108-86-1 | Bromobenzene | 1.0 | U | 1.0 | 0.13 |
| 74-97-5 | Bromochloromethane | 1.0 | U | 1.0 | 0.29 |
| 106-43-4 | 4-Chlorotoluene | 1.0 | U | 1.0 | 0.18 |
| 99-87-6 | p-Isopropyltoluene | 1.0 | U | 1.0 | 0.12 |
| 67-64-1 | Acetone | 10 | U | 10 | 1.1 |
| 71-43-2 | Benzene | 1.0 | U | 1.0 | 0.13 |
| 75-25-2 | Bromoform | 1.0 | U | 1.0 | 0.64 |
| 74-83-9 | Bromomethane | 1.0 | U | 1.0 | 0.41 |
| 75-15-0 | Carbon disulfide | 1.0 | U | 1.0 | 0.13 |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 1.0 | 0.13 |
| 108-90-7 | Chlorobenzene | 1.0 | U | 1.0 | 0.15 |
| 75-00-3 | Chloroethane | 1.0 | U | 1.0 | 0.29 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-10808-1

SDG No.:

Client Sample ID:  Lab Sample ID: MB 240-43549/5

Matrix: Water  Lab File ID: UXM5695.D

Analysis Method: 8260C  Date Collected:

Sample wt/vol: 5(mL)  Date Analyzed: 05/10/2012 12:02

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624 ID: 0.18(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 43549  Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 67-66-3 | Chloroform | 1.0 | U | 1.0 | 0.16 |
| 74-87-3 | Chloromethane | 1.0 | U | 1.0 | 0.30 |
| 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.17 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.14 |
| 87-68-3 | Hexachlorobutadiene | 0.462 | J | 1.0 | 0.30 |
| 74-95-3 | Dibromomethane | 1.0 | U | 1.0 | 0.28 |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 1.0 | 0.15 |
| 75-71-8 | Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.31 |
| 100-41-4 | Ethylbenzene | 1.0 | U | 1.0 | 0.17 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.24 |
| 108-20-3 | Diisopropyl ether | 10 | U | 10 | 1.5 |
| 91-20-3 | Naphthalene | 1.0 | U | 1.0 | 0.24 |
| 179601-23-1 | m-Xylene & p-Xylene | 2.0 | U | 2.0 | 0.24 |
| 104-51-8 | n-Butylbenzene | 1.0 | U | 1.0 | 0.12 |
| 98-82-8 | Isopropylbenzene | 1.0 | U | 1.0 | 0.13 |
| 103-65-1 | n-Propylbenzene | 1.0 | U | 1.0 | 0.14 |
| 78-93-3 | 2-Butanone | 10 | U | 10 | 0.57 |
| 108-10-1 | 4-Methyl-2-pentanone | 10 | U | 10 | 0.32 |
| 135-98-8 | sec-Butylbenzene | 1.0 | U | 1.0 | 0.13 |
| 1634-04-4 | Methyl tert-butyl ether | 5.0 | U | 5.0 | 0.17 |
| 994-05-8 | Tert-amyl-methyl ether (TAME) | 5.0 | U | 5.0 | 0.067 |
| 75-09-2 | Methylene Chloride | 1.0 | U | 1.0 | 0.33 |
| 95-47-6 | o-Xylene | 1.0 | U | 1.0 | 0.14 |
| 100-42-5 | Styrene | 1.0 | U | 1.0 | 0.11 |
| 637-92-3 | Ethyl-t-butyl ether (ETBE) | 5.0 | U | 5.0 | 0.11 |
| 98-06-6 | tert-Butylbenzene | 1.0 | U | 1.0 | 0.13 |
| 127-18-4 | Tetrachloroethene | 1.0 | U | 1.0 | 0.29 |
| 108-88-3 | Toluene | 1.0 | U | 1.0 | 0.13 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.19 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.19 |
| 79-01-6 | Trichloroethene | 1.0 | U | 1.0 | 0.17 |
| 75-69-4 | Trichlorofluoromethane | 1.0 | U | 1.0 | 0.21 |
| 108-05-4 | Vinyl acetate | 2.0 | U | 2.0 | 0.19 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 1.0 | 0.22 |
| 75-65-0 | tert-Butyl alcohol | 50 | U | 50 | 3.9 |
| 1330-20-7 | Xylenes, Total | 2.0 | U | 2.0 | 0.28 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-43549/5

Matrix: Water Lab File ID: UXM5695.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 05/10/2012 12:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 43549 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | 1.0 | U | 1.0 | 0.18 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 98 | | 63-129 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 97 | | 66-117 |
| 2037-26-5 | Toluene-d8 (Surr) | 97 | | 74-115 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 91 | | 75-121 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-43549/5

Matrix: Water Lab File ID: UXM5695.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 05/10/2012 12:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 43549 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| | Tentatively Identified Compound | | None | |

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXM5694.D

Lab ID: LCS 240-43549/4 Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 10.0 | 10.8 | 108 | 72-116 | |
| 1,1,1-Trichloroethane | 10.0 | 10.1 | 101 | 74-118 | |
| 1,1,2,2-Tetrachloroethane | 10.0 | 9.44 | 94 | 68-118 | |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 10.0 | 11.7 | 117 | 74-151 | |
| 1,1-Dichloroethane | 10.0 | 10.1 | 101 | 82-115 | |
| 1,1-Dichloroethene | 10.0 | 10.8 | 108 | 78-131 | |
| 1,1-Dichloropropene | 10.0 | 10.1 | 101 | 83-114 | |
| 1,2,3-Trichlorobenzene | 10.0 | 8.98 | 90 | 54-126 | |
| 1,2,3-Trichloropropane | 10.0 | 9.86 | 99 | 73-129 | |
| 1,2,3-Trimethylbenzene | 10.0 | 8.55 | 86 | 70-130 | |
| 1,2,4-Trichlorobenzene | 10.0 | 9.37 | 94 | 48-135 | |
| 1,2,4-Trimethylbenzene | 10.0 | 10.2 | 102 | 76-120 | |
| 1,2-Dibromo-3-Chloropropane | 10.0 | 9.58 | 96 | 42-136 | |
| 1,2-Dichlorobenzene | 10.0 | 9.69 | 97 | 81-110 | |
| 1,2-Dichloroethane | 10.0 | 10.4 | 104 | 71-127 | |
| 1,2-Dichloropropane | 10.0 | 10.4 | 104 | 81-115 | |
| 1,3-Dichlorobenzene | 10.0 | 9.93 | 99 | 80-110 | |
| 1,3-Dichloropropane | 10.0 | 10.2 | 102 | 79-116 | |
| 1,4-Dichlorobenzene | 10.0 | 9.91 | 99 | 82-110 | |
| 2,2-Dichloropropane | 10.0 | 10.7 | 107 | 50-129 | |
| 2-Chloroethyl vinyl ether | 10.0 | 9.48 J | 95 | 52-131 | |
| 2-Chlorotoluene | 10.0 | 9.87 | 99 | 76-116 | |
| 2-Hexanone | 20.0 | 21.0 | 105 | 55-133 | |
| Bromobenzene | 10.0 | 10.1 | 101 | 76-115 | |
| Bromochloromethane | 10.0 | 9.77 | 98 | 77-120 | |
| 4-Chlorotoluene | 10.0 | 10.1 | 101 | 77-115 | |
| p-Isopropyltoluene | 10.0 | 10.6 | 106 | 74-120 | |
| Acetone | 20.0 | 17.1 | 86 | 43-136 | |
| Benzene | 10.0 | 10.1 | 101 | 83-112 | |
| Bromoform | 10.0 | 8.83 | 88 | 40-131 | |
| Bromomethane | 10.0 | 8.94 | 89 | 11-185 | |
| Carbon disulfide | 10.0 | 10.4 | 104 | 62-142 | |
| Carbon tetrachloride | 10.0 | 9.42 | 94 | 66-128 | |
| Chlorobenzene | 10.0 | 10.1 | 101 | 85-110 | |
| Chloroethane | 10.0 | 8.97 | 90 | 25-153 | |
| Chloroform | 10.0 | 9.45 | 95 | 79-117 | |
| Chloromethane | 10.0 | 7.85 | 79 | 44-126 | |
| cis-1,2-Dichloroethene | 10.0 | 9.56 | 96 | 80-113 | |
| cis-1,3-Dichloropropene | 10.0 | 8.48 | 85 | 61-115 | |
| Hexachlorobutadiene | 10.0 | 9.10 | 91 | 36-134 | |
| Dibromomethane | 10.0 | 11.0 | 110 | 81-120 | |

# Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXM5694.D

Lab ID: LCS 240-43549/4 Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| Bromodichloromethane | 10.0 | 10.9 | 109 | 72-121 | |
| Dichlorodifluoromethane | 10.0 | 6.12 | 61 | 19-129 | |
| Ethylbenzene | 10.0 | 10.5 | 105 | 83-112 | |
| 1,2-Dibromoethane | 10.0 | 10.0 | 100 | 79-113 | |
| Diisopropyl ether | 10.0 | 9.77 J | 98 | 77-118 | |
| Naphthalene | 10.0 | 9.33 | 93 | 32-141 | |
| m-Xylene & p-Xylene | 20.0 | 20.7 | 104 | 83-113 | |
| n-Butylbenzene | 10.0 | 10.4 | 104 | 66-125 | |
| Isopropylbenzene | 10.0 | 10.6 | 106 | 75-114 | |
| n-Propylbenzene | 10.0 | 10.3 | 103 | 74-121 | |
| 2-Butanone | 20.0 | 18.8 | 94 | 60-126 | |
| 4-Methyl-2-pentanone | 20.0 | 20.3 | 102 | 63-128 | |
| sec-Butylbenzene | 10.0 | 10.2 | 102 | 70-117 | |
| Methyl tert-butyl ether | 10.0 | 9.74 | 97 | 52-144 | |
| Methylene Chloride | 10.0 | 10.0 | 100 | 66-131 | |
| o-Xylene | 10.0 | 10.6 | 106 | 83-113 | |
| Styrene | 10.0 | 10.7 | 107 | 79-114 | |
| tert-Butylbenzene | 10.0 | 10.3 | 103 | 71-115 | |
| Tetrachloroethene | 10.0 | 10.6 | 106 | 79-114 | |
| Toluene | 10.0 | 10.4 | 104 | 84-111 | |
| trans-1,2-Dichloroethene | 10.0 | 9.89 | 99 | 83-117 | |
| trans-1,3-Dichloropropene | 10.0 | 9.26 | 93 | 58-117 | |
| Trichloroethene | 10.0 | 10.5 | 105 | 76-117 | |
| Trichlorofluoromethane | 10.0 | 10.5 | 105 | 49-157 | |
| Vinyl acetate | 10.0 | 9.55 | 96 | 46-161 | |
| Vinyl chloride | 10.0 | 8.64 | 86 | 53-127 | |
| tert-Butyl alcohol | 200 | 192 | 96 | 70-130 | |
| Xylenes, Total | 30.0 | 31.3 | 104 | 83-112 | |
| Dibromochloromethane | 10.0 | 9.32 | 93 | 64-119 | |

# Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXM5716.D

Lab ID: 240-10837-D-5 MS Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 400 | 40 U | 416 | 104 | 64-118 | |
| 1,1,1-Trichloroethane | 400 | 40 U | 399 | 100 | 68-121 | |
| 1,1,2,2-Tetrachloroethane | 400 | 40 U | 394 | 99 | 63-122 | |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 400 | 40 U | 412 | 103 | 70-152 | |
| 1,1-Dichloroethane | 400 | 40 U | 412 | 103 | 79-116 | |
| 1,1-Dichloroethene | 400 | 16 J | 428 | 103 | 74-135 | |
| 1,1-Dichloropropene | 400 | 40 U | 412 | 103 | 80-114 | |
| 1,2,3-Trichlorobenzene | 400 | 40 U | 363 | 91 | 45-129 | |
| 1,2,3-Trichloropropane | 400 | 40 U | 397 | 99 | 67-132 | |
| 1,2,3-Trimethylbenzene | 400 | 200 U | 333 | 83 | 70-130 | |
| 1,2,4-Trichlorobenzene | 400 | 40 U | 354 | 89 | 38-138 | |
| 1,2,4-Trimethylbenzene | 400 | 40 U | 388 | 97 | 67-124 | |
| 1,2-Dibromo-3-Chloropropane | 400 | 80 U | 381 | 95 | 32-139 | |
| 1,2-Dichlorobenzene | 400 | 40 U | 380 | 95 | 75-111 | |
| 1,2-Dichloroethane | 400 | 40 U | 432 | 108 | 68-129 | |
| 1,2-Dichloropropane | 400 | 40 U | 404 | 101 | 78-115 | |
| 1,3-Dichlorobenzene | 400 | 40 U | 387 | 97 | 73-110 | |
| 1,3-Dichloropropane | 400 | 40 U | 400 | 100 | 74-118 | |
| 1,4-Dichlorobenzene | 400 | 40 U | 379 | 95 | 75-110 | |
| 2,2-Dichloropropane | 400 | 40 U | 368 | 92 | 38-127 | |
| 2-Chloroethyl vinyl ether | 400 | 400 U | 400 U | 0 | 10-150 | F |
| 2-Chlorotoluene | 400 | 40 U | 386 | 97 | 69-117 | |
| 2-Hexanone | 800 | 400 U | 828 | 104 | 47-139 | |
| Bromobenzene | 400 | 40 U | 397 | 99 | 71-116 | |
| Bromochloromethane | 400 | 40 U | 395 | 99 | 73-121 | |
| 4-Chlorotoluene | 400 | 40 U | 393 | 98 | 71-116 | |
| p-Isopropyltoluene | 400 | 40 U | 393 | 98 | 64-122 | |
| Acetone | 800 | 400 U | 756 | 95 | 33-145 | |
| Benzene | 400 | 12 J | 416 | 101 | 72-121 | |
| Bromoform | 400 | 40 U | 368 | 92 | 32-128 | |
| Bromomethane | 400 | 40 U | 334 | 83 | 10-186 | |
| Carbon disulfide | 400 | 40 U | 391 | 98 | 57-147 | |
| Carbon tetrachloride | 400 | 40 U | 366 | 91 | 59-129 | |
| Chlorobenzene | 400 | 240 | 648 | 103 | 80-110 | |
| Chloroethane | 400 | 40 U | 345 | 86 | 21-165 | |
| Chloroform | 400 | 40 U | 397 | 99 | 76-118 | |
| Chloromethane | 400 | 40 U | 306 | 77 | 33-132 | |
| cis-1,2-Dichloroethene | 400 | 1400 | 1820 | 108 | 70-120 | E |
| cis-1,3-Dichloropropene | 400 | 40 U | 320 | 80 | 51-110 | |
| Hexachlorobutadiene | 400 | 40 U | 311 | 78 | 27-132 | |
| Dibromomethane | 400 | 40 U | 432 | 108 | 77-121 | |

# Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXM5716.D

Lab ID: 240-10837-D-5 MS Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|---|
| Bromodichloromethane | 400 | 40 U | 424 | 106 | 67-120 | |
| Dichlorodifluoromethane | 400 | 40 U | 219 | 55 | 17-128 | |
| Ethylbenzene | 400 | 40 U | 388 | 97 | 75-116 | |
| 1,2-Dibromoethane | 400 | 40 U | 399 | 100 | 74-113 | |
| Diisopropyl ether | 400 | 400 U | 385 J | 96 | 73-118 | |
| Naphthalene | 400 | 40 U | 369 | 92 | 15-158 | |
| m-Xylene & p-Xylene | 800 | 80 U | 788 | 99 | 75-117 | |
| n-Butylbenzene | 400 | 40 U | 374 | 94 | 56-127 | |
| Isopropylbenzene | 400 | 40 U | 384 | 96 | 68-116 | |
| n-Propylbenzene | 400 | 40 U | 393 | 98 | 64-124 | |
| 2-Butanone | 800 | 400 U | 400 U | 0 | 54-129 | F |
| 4-Methyl-2-pentanone | 800 | 400 U | 820 | 103 | 56-131 | |
| sec-Butylbenzene | 400 | 40 U | 368 | 92 | 60-119 | |
| Methyl tert-butyl ether | 400 | 200 U | 375 | 94 | 46-144 | |
| Methylene Chloride | 400 | 40 U | 386 | 97 | 63-128 | |
| o-Xylene | 400 | 40 U | 398 | 100 | 76-116 | |
| Styrene | 400 | 40 U | 408 | 102 | 71-117 | |
| tert-Butylbenzene | 400 | 40 U | 382 | 95 | 61-119 | |
| Tetrachloroethene | 400 | 40 U | 389 | 97 | 70-117 | |
| Toluene | 400 | 6.0 J | 404 | 100 | 78-114 | |
| trans-1,2-Dichloroethene | 400 | 14 J | 404 | 98 | 80-119 | |
| trans-1,3-Dichloropropene | 400 | 40 U | 355 | 89 | 46-116 | |
| Trichloroethene | 400 | 50 | 460 | 103 | 66-120 | |
| Trichlorofluoromethane | 400 | 40 U | 384 | 96 | 46-157 | |
| Vinyl acetate | 400 | 80 U | 376 | 94 | 43-157 | |
| Vinyl chloride | 400 | 910 | 1240 | 83 | 49-130 | |
| tert-Butyl alcohol | 8000 | 2000 U | 7820 | 98 | 70-130 | |
| Xylenes, Total | 1200 | 80 U | 1190 | 99 | 76-116 | |
| Dibromochloromethane | 400 | 40 U | 359 | 90 | 56-118 | |

# Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXM5717.D

Lab ID: 240-10837-E-5 MSD Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD % REC | % RPD | QC LIMITS RPD | QC LIMITS REC | # |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 400 | 391 | 98 | 6 | 30 | 64-118 | |
| 1,1,1-Trichloroethane | 400 | 412 | 103 | 3 | 30 | 68-121 | |
| 1,1,2,2-Tetrachloroethane | 400 | 408 | 102 | 3 | 30 | 63-122 | |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 400 | 424 | 106 | 3 | 30 | 70-152 | |
| 1,1-Dichloroethane | 400 | 420 | 105 | 2 | 30 | 79-116 | |
| 1,1-Dichloroethene | 400 | 440 | 106 | 3 | 30 | 74-135 | |
| 1,1-Dichloropropene | 400 | 404 | 101 | 2 | 30 | 80-114 | |
| 1,2,3-Trichlorobenzene | 400 | 386 | 97 | 6 | 30 | 45-129 | |
| 1,2,3-Trichloropropane | 400 | 412 | 103 | 4 | 30 | 67-132 | |
| 1,2,3-Trimethylbenzene | 400 | 345 | 86 | 4 | 30 | 70-130 | |
| 1,2,4-Trichlorobenzene | 400 | 368 | 92 | 4 | 30 | 38-138 | |
| 1,2,4-Trimethylbenzene | 400 | 408 | 102 | 5 | 30 | 67-124 | |
| 1,2-Dibromo-3-Chloropropane | 400 | 362 | 91 | 5 | 30 | 32-139 | |
| 1,2-Dichlorobenzene | 400 | 391 | 98 | 3 | 30 | 75-111 | |
| 1,2-Dichloroethane | 400 | 424 | 106 | 2 | 30 | 68-129 | |
| 1,2-Dichloropropane | 400 | 416 | 104 | 3 | 30 | 78-115 | |
| 1,3-Dichlorobenzene | 400 | 392 | 98 | 1 | 30 | 73-110 | |
| 1,3-Dichloropropane | 400 | 408 | 102 | 2 | 30 | 74-118 | |
| 1,4-Dichlorobenzene | 400 | 389 | 97 | 3 | 30 | 75-110 | |
| 2,2-Dichloropropane | 400 | 390 | 98 | 6 | 30 | 38-127 | |
| 2-Chloroethyl vinyl ether | 400 | 400 U | 0 | NC | 30 | 10-150 | F |
| 2-Chlorotoluene | 400 | 400 | 100 | 4 | 30 | 69-117 | |
| 2-Hexanone | 800 | 804 | 101 | 3 | 30 | 47-139 | |
| Bromobenzene | 400 | 408 | 102 | 3 | 30 | 71-116 | |
| Bromochloromethane | 400 | 412 | 103 | 4 | 30 | 73-121 | |
| 4-Chlorotoluene | 400 | 404 | 101 | 3 | 30 | 71-116 | |
| p-Isopropyltoluene | 400 | 408 | 102 | 4 | 30 | 64-122 | |
| Acetone | 800 | 780 | 98 | 3 | 30 | 33-145 | |
| Benzene | 400 | 416 | 101 | 0 | 30 | 72-121 | |
| Bromoform | 400 | 363 | 91 | 1 | 30 | 32-128 | |
| Bromomethane | 400 | 350 | 88 | 5 | 30 | 10-186 | |
| Carbon disulfide | 400 | 398 | 100 | 2 | 30 | 57-147 | |
| Carbon tetrachloride | 400 | 378 | 95 | 3 | 30 | 59-129 | |
| Chlorobenzene | 400 | 640 | 101 | 1 | 30 | 80-110 | |
| Chloroethane | 400 | 364 | 91 | 5 | 30 | 21-165 | |
| Chloroform | 400 | 404 | 101 | 2 | 30 | 76-118 | |
| Chloromethane | 400 | 315 | 79 | 3 | 30 | 33-132 | |
| cis-1,2-Dichloroethene | 400 | 1790 | 102 | 1 | 30 | 70-120 | E |
| cis-1,3-Dichloropropene | 400 | 350 | 88 | 9 | 30 | 51-110 | |
| Hexachlorobutadiene | 400 | 338 | 85 | 8 | 30 | 27-132 | |
| Dibromomethane | 400 | 432 | 108 | 0 | 30 | 77-121 | |

# Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXM5717.D

Lab ID: 240-10837-E-5 MSD Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD % REC | % RPD | QC LIMITS RPD | QC LIMITS REC | # |
|---|---|---|---|---|---|---|---|
| Bromodichloromethane | 400 | 420 | 105 | 1 | 30 | 67-120 | |
| Dichlorodifluoromethane | 400 | 214 | 54 | 2 | 30 | 17-128 | |
| Ethylbenzene | 400 | 400 | 100 | 3 | 30 | 75-116 | |
| 1,2-Dibromoethane | 400 | 397 | 99 | 1 | 30 | 74-113 | |
| Diisopropyl ether | 400 | 395 J | 99 | 2 | 30 | 73-118 | |
| Naphthalene | 400 | 392 | 98 | 6 | 30 | 15-158 | |
| m-Xylene & p-Xylene | 800 | 784 | 98 | 1 | 30 | 75-117 | |
| n-Butylbenzene | 400 | 388 | 97 | 4 | 30 | 56-127 | |
| Isopropylbenzene | 400 | 383 | 96 | 0 | 30 | 68-116 | |
| n-Propylbenzene | 400 | 408 | 102 | 4 | 30 | 64-124 | |
| 2-Butanone | 800 | 400 U | 0 | NC | 30 | 54-129 | F |
| 4-Methyl-2-pentanone | 800 | 856 | 107 | 4 | 30 | 56-131 | |
| sec-Butylbenzene | 400 | 384 | 96 | 4 | 30 | 60-119 | |
| Methyl tert-butyl ether | 400 | 395 | 99 | 5 | 30 | 46-144 | |
| Methylene Chloride | 400 | 393 | 98 | 2 | 30 | 63-128 | |
| o-Xylene | 400 | 396 | 99 | 1 | 30 | 76-116 | |
| Styrene | 400 | 400 | 100 | 2 | 30 | 71-117 | |
| tert-Butylbenzene | 400 | 398 | 100 | 4 | 30 | 61-119 | |
| Tetrachloroethene | 400 | 381 | 95 | 2 | 30 | 70-117 | |
| Toluene | 400 | 397 | 98 | 2 | 30 | 78-114 | |
| trans-1,2-Dichloroethene | 400 | 416 | 101 | 3 | 30 | 80-119 | |
| trans-1,3-Dichloropropene | 400 | 363 | 91 | 2 | 30 | 46-116 | |
| Trichloroethene | 400 | 460 | 103 | 0 | 30 | 66-120 | |
| Trichlorofluoromethane | 400 | 400 | 100 | 4 | 30 | 46-157 | |
| Vinyl acetate | 400 | 390 | 98 | 4 | 30 | 43-157 | |
| Vinyl chloride | 400 | 1240 | 82 | 0 | 30 | 49-130 | |
| tert-Butyl alcohol | 8000 | 8060 | 101 | 3 | 30 | 70-130 | |
| Xylenes, Total | 1200 | 1180 | 98 | 1 | 30 | 76-116 | |
| Dibromochloromethane | 400 | 362 | 91 | 1 | 30 | 56-118 | |

# Column to be used to flag recovery and RPD values

FORM III 8260C

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): RXI-5SILMS ID: 0.45 (mm)

| Client Sample ID | Lab Sample ID | 2FP # | PHL # | NBZ # | FBP # | TBP # | TPH # |
|---|---|---|---|---|---|---|---|
| GSP-MW5-043012 | 240-10808-2 | 57 | 60 | 52 | 57 | 82 | 66 |
| GSP-MW6-043012 | 240-10808-3 | 48 | 60 | 50 | 56 | 84 | 64 |
| MT-MW02S-043012 | 240-10808-4 | 56 | 64 | 64 | 51 | 77 | 59 |
| | MB 240-42901/22-A | 66 | 67 | 62 | 59 | 76 | 79 |
| | LCS 240-42901/23-A | 69 | 71 | 65 | 67 | 95 | 78 |
| | 240-10842-O-8-A MS | 62 | 66 | 58 | 56 | 83 | 64 |
| | 240-10837-Q-5-A MSD | 69 | 71 | 65 | 66 | 95 | 77 |
| | 240-10842-R-8-A MSD | 56 | 67 | 53 | 51 | 63 | 70 |

| | QC LIMITS |
|---|---|
| 2FP = 2-Fluorophenol (Surr) | 10-110 |
| PHL = Phenol-d5 (Surr) | 10-110 |
| NBZ = Nitrobenzene-d5 (Surr) | 27-111 |
| FBP = 2-Fluorobiphenyl (Surr) | 28-110 |
| TBP = 2,4,6-Tribromophenol (Surr) | 22-120 |
| TPH = Terphenyl-d14 (Surr) | 37-119 |

# Column to be used to flag recovery values

FORM II 8270C

FORM VIII

GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Sample No.: STD6 240-42463/10 Date Analyzed: 05/02/2012 12:54

Instrument ID: A4HP7 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 20502010.D Heated Purge: (Y/N) N

Calibration ID: 8490

| | | DCB | | NPT | | ANT | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | | 203831 | 3.51 | 750748 | 4.40 | 449631 | 5.66 |
| UPPER LIMIT | | 407662 | 4.01 | 1501496 | 4.90 | 899262 | 6.16 |
| LOWER LIMIT | | 101916 | 3.01 | 375374 | 3.90 | 224816 | 5.16 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| ICV 240-42463/11 | | 219450 | 3.51 | 793338 | 4.40 | 481824 | 5.66 |
| CCV 240-43126/2 CCVIS | | 203268 | 3.39 | 807358 | 4.28 | 443644 | 5.54 |

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270C

FORM VIII

GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Sample No.: STD6 240-42463/10 Date Analyzed: 05/02/2012 12:54

Instrument ID: A4HP7 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 20502010.D Heated Purge: (Y/N) N

Calibration ID: 8490

| | | PHN | | CRY | | PRY | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | | 701859 | 6.74 | 609578 | 8.73 | 444154 | 10.12 |
| UPPER LIMIT | | 1403718 | 7.24 | 1219156 | 9.23 | 888308 | 10.62 |
| LOWER LIMIT | | 350930 | 6.24 | 304789 | 8.23 | 222077 | 9.62 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| ICV 240-42463/11 | | 750463 | 6.74 | 697064 | 8.71 | 502891 | 10.10 |
| CCV 240-43126/2 CCVIS | | 728055 | 6.61 | 667024 | 8.58 | 498151 | 9.89 |

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270C

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Sample No.: CCV 240-43126/2 Date Analyzed: 05/08/2012 09:05

Instrument ID: A4HP7 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 20508002.D Heated Purge: (Y/N) N

Calibration ID: 8498

| | | DCB | | NPT | | ANT | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 203268 | 3.39 | 807358 | 4.28 | 443644 | 5.54 |
| UPPER LIMIT | | 406536 | 3.89 | 1614716 | 4.78 | 887288 | 6.04 |
| LOWER LIMIT | | 101634 | 2.89 | 403679 | 3.78 | 221822 | 5.04 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| MB 240-42901/22-A | | 215470 | 3.39 | 837951 | 4.28 | 473321 | 5.53 |
| LCS 240-42901/23-A | | 211516 | 3.39 | 825101 | 4.28 | 475505 | 5.54 |
| 240-10837-Q-5-A MSD | | 209412 | 3.40 | 839319 | 4.28 | 485920 | 5.54 |
| 240-10808-2 | GSP-MW5-043012 | 222949 | 3.39 | 924223 | 4.28 | 533114 | 5.54 |
| 240-10808-3 | GSP-MW6-043012 | 219954 | 3.39 | 911722 | 4.28 | 536229 | 5.54 |
| 240-10808-4 | MT-MW02S-043012 | 206091 | 3.39 | 873183 | 4.28 | 565534 | 5.55 |
| 240-10842-O-8-A MS | | 209225 | 3.40 | 835519 | 4.28 | 543280 | 5.54 |

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270C

FORM VIII

GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Sample No.: CCV 240-43126/2 Date Analyzed: 05/08/2012 09:05

Instrument ID: A4HP7 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 20508002.D Heated Purge: (Y/N) N

Calibration ID: 8498

| | | PHN | | CRY | | PRY | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 728055 | 6.61 | 667024 | 8.58 | 498151 | 9.89 |
| UPPER LIMIT | | 1456110 | 7.11 | 1334048 | 9.08 | 996302 | 10.39 |
| LOWER LIMIT | | 364028 | 6.11 | 333512 | 8.08 | 249076 | 9.39 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| MB 240-42901/22-A | | 751385 | 6.61 | 713440 | 8.57 | 527924 | 9.87 |
| LCS 240-42901/23-A | | 771734 | 6.61 | 721036 | 8.57 | 536929 | 9.87 |
| 240-10837-Q-5-A MSD | | 752567 | 6.61 | 706606 | 8.57 | 555213 | 9.87 |
| 240-10808-2 | GSP-MW5-043012 | 853317 | 6.61 | 820134 | 8.57 | 633850 | 9.87 |
| 240-10808-3 | GSP-MW6-043012 | 850410 | 6.61 | 804885 | 8.57 | 627018 | 9.87 |
| 240-10808-4 | MT-MW02S-043012 | 805307 | 6.61 | 785402 | 8.57 | 599972 | 9.87 |
| 240-10842-O-8-A MS | | 811563 | 6.62 | 773792 | 8.57 | 591505 | 9.88 |

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270C

FORM VIII

GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Sample No.: STD6 240-43665/10 Date Analyzed: 05/11/2012 11:47

Instrument ID: A4HP7 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 20511010.D Heated Purge: (Y/N) N

Calibration ID: 8680

| | | DCB | | NPT | | ANT | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | | 437336 | 3.45 | 1550128 | 4.35 | 857737 | 5.61 |
| UPPER LIMIT | | 874672 | 3.95 | 3100256 | 4.85 | 1715474 | 6.11 |
| LOWER LIMIT | | 218668 | 2.95 | 775064 | 3.85 | 428869 | 5.11 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| ICV 240-43665/11 | | 440902 | 3.45 | 1545336 | 4.35 | 858847 | 5.61 |
| 240-10842-R-8-A MSD | | 295486 | 3.45 | 1133322 | 4.35 | 755877 | 5.61 |

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270C

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Sample No.: STD6 240-43665/10 Date Analyzed: 05/11/2012 11:47

Instrument ID: A4HP7 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 20511010.D Heated Purge: (Y/N) N

Calibration ID: 8680

| | | PHN | | CRY | | PRY | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | | 1328211 | 6.69 | 1262099 | 8.67 | 1119020 | 10.02 |
| UPPER LIMIT | | 2656422 | 7.19 | 2524198 | 9.17 | 2238040 | 10.52 |
| LOWER LIMIT | | 664106 | 6.19 | 631050 | 8.17 | 559510 | 9.52 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| ICV 240-43665/11 | | 1301262 | 6.69 | 1208547 | 8.67 | 1044058 | 10.03 |
| 240-10842-R-8-A MSD | | 1034466 | 6.69 | 952330 | 8.66 | 891660 | 10.02 |

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270C

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Lab File ID: 20508011.D Lab Sample ID: MB 240-42901/22-A

Matrix: Water Date Extracted: 05/05/2012 09:23

Instrument ID: A4HP7 Date Analyzed: 05/08/2012 11:52

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| | LCS 240-42901/23-A | 20508012.D | 05/08/2012 12:11 |
| | 240-10837-Q-5-A MSD | 20508028.D | 05/08/2012 17:06 |
| GSP-MW5-043012 | 240-10808-2 | 20508035.D | 05/08/2012 19:16 |
| GSP-MW6-043012 | 240-10808-3 | 20508036.D | 05/08/2012 19:35 |
| MT-MW02S-043012 | 240-10808-4 | 20508037.D | 05/08/2012 19:53 |
| | 240-10842-O-8-A MS | 20508039.D | 05/08/2012 20:30 |
| | 240-10842-R-8-A MSD | 20511021.D | 05/11/2012 15:14 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-10808-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-42901/22-A

Matrix: Water | Lab File ID: 20508011.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3520C | Date Extracted: 05/05/2012 09:23

Sample wt/vol: 1000(mL) | Date Analyzed: 05/08/2012 11:52

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 43126 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 123-91-1 | 1,4-Dioxane | 1.0 | U | 1.0 | 0.49 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 321-60-8 | 2-Fluorobiphenyl (Surr) | 59 | | 28-110 |
| 367-12-4 | 2-Fluorophenol (Surr) | 66 | | 10-110 |
| 118-79-6 | 2,4,6-Tribromophenol (Surr) | 76 | | 22-120 |
| 4165-60-0 | Nitrobenzene-d5 (Surr) | 62 | | 27-111 |
| 4165-62-2 | Phenol-d5 (Surr) | 67 | | 10-110 |
| 1718-51-0 | Terphenyl-d14 (Surr) | 79 | | 37-119 |

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 20508012.D

Lab ID: LCS 240-42901/23-A Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| 1,4-Dioxane | 20.0 | 11.1 | 56 | 10-110 | |

# Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 20508039.D

Lab ID: 240-10842-O-8-A MS Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|---|
| 1,4-Dioxane | 19.0 | 14 | 22.9 | 44 | 10-110 | |

# Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 20508028.D

Lab ID: 240-10837-Q-5-A MSD Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD % REC | % RPD | QC LIMITS RPD | QC LIMITS REC | # |
|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 19.0 | 82.3 | 112 | 7 | 30 | 10-110 | F |

# Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 20511021.D

Lab ID: 240-10842-R-8-A MSD Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD % REC | % RPD | QC LIMITS RPD | QC LIMITS REC | # |
|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 19.0 | 15.0 | 3 | 41 | 30 | 10-110 | F |

# Column to be used to flag recovery and RPD values

FORM III 8270C

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Lab File ID: 20502001.D DFTPP Injection Date: 05/02/2012

Instrument ID: A4HP7 DFTPP Injection Time: 10:03

Analysis Batch No.: 42463

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 51 | 30.0- 80.0% of mass 198 | 60.2 | |
| 68 | Less than 2.0% of mass 69 | 0.0 | (0.0)1 |
| 69 | Mass 69 relative abundance | 45.5 | |
| 70 | Less than 2.0% of mass 69 | 0.2 | (0.5)1 |
| 127 | 25.0 - 75.0% of mass 198 | 50.3 | |
| 197 | Less than 1.0% of mass 198 | 0.0 | |
| 198 | Base Peak, 100% relative abundance | 100.0 | |
| 199 | 5.0 to 9.0% of mass 198 | 6.8 | |
| 275 | 10.0- 30.0% of mass 198 | 23.2 | |
| 365 | Greater than 0.75% of mass 198 | 2.0 | |
| 441 | Present, but less than mass 443 | 7.0 | |
| 442 | 40.0 - 110.0% of mass 198 | 44.8 | |
| 443 | 15.0 - 24.0% of mass 442 | 8.8 | (19.6)2 |

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | STD5 240-42463/2 | 20502002.D | 05/02/2012 | 10:23 |
| | STD4 240-42463/3 | 20502003.D | 05/02/2012 | 10:42 |
| | STD3 240-42463/4 | 20502004.D | 05/02/2012 | 11:01 |
| | STD2 240-42463/5 | 20502005.D | 05/02/2012 | 11:19 |
| | STD1 240-42463/6 | 20502006.D | 05/02/2012 | 11:38 |
| | STD9 240-42463/7 | 20502007.D | 05/02/2012 | 11:57 |
| | STD8 240-42463/8 | 20502008.D | 05/02/2012 | 12:16 |
| | STD7 240-42463/9 | 20502009.D | 05/02/2012 | 12:35 |
| | STD6 240-42463/10 | 20502010.D | 05/02/2012 | 12:54 |
| | ICV 240-42463/11 | 20502011.D | 05/02/2012 | 13:13 |

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-10808-1 Analy Batch No.: 42463

SDG No.:

Instrument ID: A4HP7 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/02/2012 10:23 Calibration End Date: 05/02/2012 12:54 Calibration ID: 8490

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-42463/6 | 20502006.D |
| Level 2 | STD2 240-42463/5 | 20502005.D |
| Level 3 | STD3 240-42463/4 | 20502004.D |
| Level 4 | STD4 240-42463/3 | 20502003.D |
| Level 5 | STD5 240-42463/2 | 20502002.D |
| Level 6 | STD6 240-42463/10 | 20502010.D |
| Level 7 | STD7 240-42463/9 | 20502009.D |
| Level 8 | STD8 240-42463/8 | 20502008.D |
| Level 9 | STD9 240-42463/7 | 20502007.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1 LVL 6 | LVL 2 LVL 7 | LVL 3 LVL 8 | LVL 4 LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 1,4-Dioxane | 0.5797 | 0.7266 0.5728 | 0.4617 0.6094 | 0.5087 0.5684 | 0.4851 | Ave | | 0.5640 | | | | 15.0 | | 15.0 | | | |
| N-Nitrosodimethylamine | 0.8841 | 0.7933 0.8811 | 0.7168 0.9316 | 0.7448 0.9112 | 0.7452 | Ave | | 0.8260 | | | | 10.0 | | 15.0 | | | |
| Pyridine | 1.5075 | 1.3258 1.5146 | 1.1707 1.6776 | 1.1870 1.6034 | 1.1707 | Ave | | 1.3947 | | | | 15.0 | | 15.0 | | | |
| Ethyl methacrylate | 1.1731 | 0.9728 1.1757 | 1.0484 1.2864 | 1.0037 1.2062 | 1.0290 | Ave | | 1.1119 | | | | 10.0 | | 15.0 | | | |
| Benzaldehyde | 1.3735 0.7433 | 1.0441 +++++ | 1.0548 +++++ | 1.0867 +++++ | 0.9578 | Ave | | 1.0434 | | | | 20.0 | * | 15.0 | | | |
| 3-Chloropropionitrile | 1.0012 | 0.9519 1.0222 | 0.9033 1.1093 | 0.8667 1.0492 | 0.8718 | Ave | | 0.9719 | | | | 9.1 | | 15.0 | | | |
| Malononitrile | 1.5032 | 1.4102 1.2671 | 1.3756 1.2102 | 1.4463 1.0266 | 1.4564 | Ave | | 1.3370 | | | | 12.0 | | 15.0 | | | |
| Benzoic acid | 0.2334 | +++++ 0.2441 | +++++ 0.2610 | 0.1647 0.2825 | 0.2322 | Qua | 0.0075 | 0.1951 | 0.0017 | | | | | | 0.9990 | | 0.9900 |
| Phenol | 1.7085 | 1.5885 1.7359 | 1.4815 1.9095 | 1.5782 1.8649 | 1.5731 | Ave | | 1.6800 | | | | 9.0 | | 15.0 | | | |
| Aniline | 2.1278 | 1.9210 2.1146 | 1.8743 2.3821 | 2.0349 2.3349 | 1.9327 | Ave | | 2.0903 | | | | 9.0 | | 15.0 | | | |
| Bis(2-chloroethyl)ether | 1.2927 | 1.2120 1.4453 | 1.3088 1.4464 | 1.1722 1.4211 | 1.1887 | Ave | | 1.3109 | | | | 8.8 | | 15.0 | | | |
| 2-Chlorophenol | 1.5020 | 1.3476 1.5269 | 1.3800 1.6760 | 1.4496 1.6251 | 1.4098 | Ave | | 1.4896 | | | | 7.8 | | 15.0 | | | |
| 1,3-Dichlorobenzene | 1.6350 | 1.3701 1.6113 | 1.5553 1.7820 | 1.5792 1.6988 | 1.5113 | Ave | | 1.5929 | | | | 7.8 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

ICV

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Lab Sample ID: ICV 240-42463/11 Calibration Date: 05/02/2012 13:13

Instrument ID: A4HP7 Calib Start Date: 05/02/2012 10:23

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 05/02/2012 12:54

Lab File ID: 20502011.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | Ave | 0.5640 | 0.5264 | | 9.33 | 10.0 | -6.7 | 50.0 |
| N-Nitrosodimethylamine | Ave | 0.8260 | 0.8251 | | 9.99 | 10.0 | -0.1 | 50.0 |
| Pyridine | Ave | 1.395 | 1.479 | | 10.6 | 10.0 | 6.0 | 50.0 |
| Ethyl methacrylate | Ave | 1.112 | 1.109 | | 9.97 | 10.0 | -0.3 | 50.0 |
| 3-Chloropropionitrile | Ave | 0.9719 | 0.9803 | | 10.1 | 10.0 | 0.9 | 50.0 |
| Malononitrile | Ave | 1.337 | 1.496 | | 11.2 | 10.0 | 11.9 | 50.0 |
| Benzaldehyde | Ave | 1.043 | 0.6145 | | 5.89 | 10.0 | -41.1 | 50.0 |
| Phenol | Ave | 1.680 | 1.722 | | 10.2 | 10.0 | 2.5 | 20.0 |
| Aniline | Ave | 2.090 | 2.144 | | 10.3 | 10.0 | 2.6 | 50.0 |
| Bis(2-chloroethyl)ether | Ave | 1.311 | 1.327 | | 10.1 | 10.0 | 1.2 | 50.0 |
| 2-Chlorophenol | Ave | 1.490 | 1.506 | | 10.1 | 10.0 | 1.1 | 50.0 |
| 1,3-Dichlorobenzene | Ave | 1.593 | 1.567 | | 9.84 | 10.0 | -1.6 | 50.0 |
| 1,4-Dichlorobenzene | Ave | 1.646 | 1.623 | | 9.86 | 10.0 | -1.4 | 20.0 |
| Benzyl alcohol | Ave | 0.8859 | 0.8898 | | 10.0 | 10.0 | 0.4 | 50.0 |
| 1,2-Dichlorobenzene | Ave | 1.544 | 1.517 | | 9.83 | 10.0 | -1.7 | 50.0 |
| 2-Methylphenol | Ave | 1.290 | 1.293 | | 10.0 | 10.0 | 0.2 | 50.0 |
| bis (2-chloroisopropyl) ether | Ave | 1.740 | 1.616 | | 9.29 | 10.0 | -7.1 | 50.0 |
| 3 & 4 Methylphenol | Ave | 1.324 | 1.366 | | 10.3 | 10.0 | 3.2 | 50.0 |
| N-Nitrosodi-n-propylamine | Ave | 0.8988 | 0.8701 | 0.0500 | 9.68 | 10.0 | -3.2 | 50.0 |
| Acetophenone | Ave | 1.873 | 1.869 | | 9.98 | 10.0 | -0.2 | 50.0 |
| Hexachloroethane | Ave | 0.5453 | 0.5299 | | 9.72 | 10.0 | -2.8 | 50.0 |
| Nitrobenzene | Ave | 0.3636 | 0.3573 | | 9.83 | 10.0 | -1.7 | 50.0 |
| Isophorone | Ave | 0.6461 | 0.6605 | | 10.2 | 10.0 | 2.2 | 50.0 |
| 2,4-Dimethylphenol | Ave | 0.3785 | 0.3876 | | 10.2 | 10.0 | 2.4 | 50.0 |
| 2-Nitrophenol | Ave | 0.2067 | 0.2181 | | 10.5 | 10.0 | 5.5 | 20.0 |
| 1,3,5-Trichlorobenzene | Ave | 0.3633 | 0.3733 | | 10.3 | 10.0 | 2.8 | 50.0 |
| Bis(2-chloroethoxy)methane | Ave | 0.3739 | 0.3789 | | 10.1 | 10.0 | 1.3 | 50.0 |
| Benzoic acid | Qua | | 0.2340 | | 20.3 | 20.0 | 1.5 | 50.0 |
| 2,4-Dichlorophenol | Ave | 0.3173 | 0.3295 | | 10.4 | 10.0 | 3.8 | 20.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.3480 | 0.3617 | | 10.4 | 10.0 | 3.9 | 50.0 |
| Naphthalene | Ave | 1.144 | 1.159 | | 10.1 | 10.0 | 1.3 | 50.0 |
| 4-Chloroaniline | Ave | 0.4747 | 0.4591 | | 9.67 | 10.0 | -3.3 | 50.0 |
| Hexachlorobutadiene | Ave | 0.1832 | 0.1824 | | 9.96 | 10.0 | -0.4 | 20.0 |
| 1,2,3-Trichlorobenzene | Ave | 0.3305 | 0.3260 | | 9.86 | 10.0 | -1.4 | 50.0 |
| Caprolactam | Qua | | 0.1203 | | 10.5 | 10.0 | 5.0 | 50.0 |
| 4-Chloro-3-methylphenol | Ave | 0.3023 | 0.3207 | | 10.6 | 10.0 | 6.1 | 20.0 |
| 2-Methylnaphthalene | Ave | 0.7358 | 0.7408 | | 10.1 | 10.0 | 0.7 | 50.0 |
| 1-Methylnaphthalene | Ave | 0.7008 | 0.7068 | | 10.1 | 10.0 | 0.8 | 50.0 |
| 1,2,3,5-Tetrachlorobenzene | Ave | 0.5580 | 0.5505 | | 9.87 | 10.0 | -1.3 | 50.0 |
| Hexachlorocyclopentadiene | Ave | 0.3259 | 0.3366 | 0.0500 | 10.3 | 10.0 | 3.3 | 50.0 |

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Lab File ID: 20508001.D DFTPP Injection Date: 05/08/2012

Instrument ID: A4HP7 DFTPP Injection Time: 08:46

Analysis Batch No.: 43126

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 51 | 30.0- 80.0% of mass 198 | 61.2 | |
| 68 | Less than 2.0% of mass 69 | 0.0 | (0.0)1 |
| 69 | Mass 69 relative abundance | 58.2 | |
| 70 | Less than 2.0% of mass 69 | 0.3 | (0.5)1 |
| 127 | 25.0 - 75.0% of mass 198 | 61.8 | |
| 197 | Less than 1.0% of mass 198 | 0.0 | |
| 198 | Base Peak, 100% relative abundance | 100.0 | |
| 199 | 5.0 to 9.0% of mass 198 | 6.8 | |
| 275 | 10.0- 30.0% of mass 198 | 26.3 | |
| 365 | Greater than 0.75% of mass 198 | 2.9 | |
| 441 | Present, but less than mass 443 | 11.9 | |
| 442 | 40.0 - 110.0% of mass 198 | 74.4 | |
| 443 | 15.0 - 24.0% of mass 442 | 14.6 | (19.6)2 |

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | CCV 240-43126/2 | 20508002.D | 05/08/2012 | 09:05 |
| | MB 240-42901/22-A | 20508011.D | 05/08/2012 | 11:52 |
| | LCS 240-42901/23-A | 20508012.D | 05/08/2012 | 12:11 |
| | 240-10837-Q-5-A MSD | 20508028.D | 05/08/2012 | 17:06 |
| GSP-MW5-043012 | 240-10808-2 | 20508035.D | 05/08/2012 | 19:16 |
| GSP-MW6-043012 | 240-10808-3 | 20508036.D | 05/08/2012 | 19:35 |
| MT-MW02S-043012 | 240-10808-4 | 20508037.D | 05/08/2012 | 19:53 |
| | 240-10842-O-8-A MS | 20508039.D | 05/08/2012 | 20:30 |

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Lab Sample ID: CCV 240-43126/2 Calibration Date: 05/08/2012 09:05

Instrument ID: A4HP7 Calib Start Date: 05/02/2012 10:23

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 05/02/2012 12:54

Lab File ID: 20508002.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | Ave | 0.5640 | 0.5272 | | 9.35 | 10.0 | -6.5 | 50.0 |
| N-Nitrosodimethylamine | Ave | 0.8260 | 0.7907 | | 9.57 | 10.0 | -4.3 | 50.0 |
| Pyridine | Ave | 1.395 | 1.390 | | 9.97 | 10.0 | -0.3 | 50.0 |
| Ethyl methacrylate | Ave | 1.112 | 1.104 | | 9.92 | 10.0 | -0.8 | 50.0 |
| 3-Chloropropionitrile | Ave | 0.9719 | 0.8004 | | 8.24 | 10.0 | -17.6 | 50.0 |
| Malononitrile | Ave | 1.337 | 1.340 | | 10.0 | 10.0 | 0.2 | 50.0 |
| Benzaldehyde | Ave | 1.043 | 0.7144 | | 6.85 | 10.0 | -31.5 | 50.0 |
| Phenol | Ave | 1.680 | 1.721 | | 10.2 | 10.0 | 2.4 | 20.0 |
| Aniline | Ave | 2.090 | 2.189 | | 10.5 | 10.0 | 4.7 | 50.0 |
| Bis(2-chloroethyl)ether | Ave | 1.311 | 1.311 | | 10.0 | 10.0 | 0.0 | 50.0 |
| 2-Chlorophenol | Ave | 1.490 | 1.473 | | 9.89 | 10.0 | -1.1 | 50.0 |
| 1,3-Dichlorobenzene | Ave | 1.593 | 1.599 | | 10.0 | 10.0 | 0.4 | 50.0 |
| 1,4-Dichlorobenzene | Ave | 1.646 | 1.662 | | 10.1 | 10.0 | 1.0 | 50.0 |
| Benzyl alcohol | Ave | 0.8859 | 0.8606 | | 9.71 | 10.0 | -2.9 | 50.0 |
| 1,2-Dichlorobenzene | Ave | 1.544 | 1.529 | | 9.91 | 10.0 | -0.9 | 50.0 |
| 2-Methylphenol | Ave | 1.290 | 1.300 | | 10.1 | 10.0 | 0.7 | 50.0 |
| bis (2-chloroisopropyl) ether | Ave | 1.740 | 1.634 | | 9.39 | 10.0 | -6.1 | 50.0 |
| 3 & 4 Methylphenol | Ave | 1.324 | 1.360 | | 10.3 | 10.0 | 2.7 | 50.0 |
| N-Nitrosodi-n-propylamine | Ave | 0.8988 | 0.9308 | 0.0500 | 10.4 | 10.0 | 3.6 | 50.0 |
| Acetophenone | Ave | 1.873 | 1.935 | | 10.3 | 10.0 | 3.3 | 50.0 |
| Hexachloroethane | Ave | 0.5453 | 0.5619 | | 10.3 | 10.0 | 3.0 | 50.0 |
| Nitrobenzene | Ave | 0.3636 | 0.3688 | | 10.1 | 10.0 | 1.4 | 50.0 |
| Isophorone | Ave | 0.6461 | 0.6574 | | 10.2 | 10.0 | 1.7 | 50.0 |
| 2-Nitrophenol | Ave | 0.2067 | 0.2114 | | 10.2 | 10.0 | 2.3 | 20.0 |
| 2,4-Dimethylphenol | Ave | 0.3785 | 0.3801 | | 10.0 | 10.0 | 0.4 | 50.0 |
| 1,3,5-Trichlorobenzene | Ave | 0.3633 | 0.3290 | | 9.06 | 10.0 | -9.4 | 50.0 |
| Bis(2-chloroethoxy)methane | Ave | 0.3739 | 0.3772 | | 10.1 | 10.0 | 0.9 | 50.0 |
| Benzoic acid | Qua | | 0.1909 | | 17.0 | 20.0 | -15.0 | 50.0 |
| 2,4-Dichlorophenol | Ave | 0.3173 | 0.2887 | | 9.10 | 10.0 | -9.0 | 20.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.3480 | 0.3214 | | 9.23 | 10.0 | -7.7 | 50.0 |
| Naphthalene | Ave | 1.144 | 1.081 | | 9.45 | 10.0 | -5.5 | 50.0 |
| 4-Chloroaniline | Ave | 0.4747 | 0.4497 | | 9.48 | 10.0 | -5.2 | 50.0 |
| Hexachlorobutadiene | Ave | 0.1832 | 0.1595 | | 8.71 | 10.0 | -12.9 | 20.0 |
| 1,2,3-Trichlorobenzene | Ave | 0.3305 | 0.2901 | | 8.78 | 10.0 | -12.2 | 50.0 |
| Caprolactam | Qua | | 0.1216 | | 10.6 | 10.0 | 6.0 | 50.0 |
| 4-Chloro-3-methylphenol | Ave | 0.3023 | 0.3096 | | 10.2 | 10.0 | 2.4 | 20.0 |
| 2-Methylnaphthalene | Ave | 0.7358 | 0.7177 | | 9.75 | 10.0 | -2.5 | 50.0 |
| 1-Methylnaphthalene | Ave | 0.7008 | 0.6679 | | 9.53 | 10.0 | -4.7 | 50.0 |
| 1,2,3,5-Tetrachlorobenzene | Ave | 0.5580 | 0.5324 | | 9.54 | 10.0 | -4.6 | 50.0 |
| Hexachlorocyclopentadiene | Ave | 0.3259 | 0.3328 | 0.0500 | 10.2 | 10.0 | 2.1 | 50.0 |

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Lab File ID: 20511001.D DFTPP Injection Date: 05/11/2012

Instrument ID: A4HP7 DFTPP Injection Time: 08:59

Analysis Batch No.: 43665

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 51 | 30.0- 80.0% of mass 198 | 47.8 | |
| 68 | Less than 2.0% of mass 69 | 0.0 | (0.0)1 |
| 69 | Mass 69 relative abundance | 36.2 | |
| 70 | Less than 2.0% of mass 69 | 0.1 | (0.4)1 |
| 127 | 25.0 - 75.0% of mass 198 | 47.8 | |
| 197 | Less than 1.0% of mass 198 | 0.0 | |
| 198 | Base Peak, 100% relative abundance | 100.0 | |
| 199 | 5.0 to 9.0% of mass 198 | 6.6 | |
| 275 | 10.0- 30.0% of mass 198 | 24.5 | |
| 365 | Greater than 0.75% of mass 198 | 2.9 | |
| 441 | Present, but less than mass 443 | 6.8 | |
| 442 | 40.0 - 110.0% of mass 198 | 85.6 | |
| 443 | 15.0 - 24.0% of mass 442 | 16.2 | (18.9)2 |

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | STD5 240-43665/2 | 20511002.D | 05/11/2012 | 09:17 |
| | STD4 240-43665/3 | 20511003.D | 05/11/2012 | 09:36 |
| | STD3 240-43665/4 | 20511004.D | 05/11/2012 | 09:54 |
| | STD2 240-43665/5 | 20511005.D | 05/11/2012 | 10:13 |
| | STD1 240-43665/6 | 20511006.D | 05/11/2012 | 10:32 |
| | STD9 240-43665/7 | 20511007.D | 05/11/2012 | 10:50 |
| | STD8 240-43665/8 | 20511008.D | 05/11/2012 | 11:09 |
| | STD7 240-43665/9 | 20511009.D | 05/11/2012 | 11:28 |
| | STD6 240-43665/10 | 20511010.D | 05/11/2012 | 11:47 |
| | ICV 240-43665/11 | 20511011.D | 05/11/2012 | 12:06 |
| | 240-10842-R-8-A MSD | 20511021.D | 05/11/2012 | 15:14 |

ND samples

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-10808-1  Analy Batch No.: 43665

SDG No.:

Instrument ID: A4HP7  GC Column: RXI-5SILMS  ID: 0.45(mm)  Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2012 09:17  Calibration End Date: 05/11/2012 11:47  Calibration ID: 8680

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-43665/6 | 20511006.D |
| Level 2 | STD2 240-43665/5 | 20511005.D |
| Level 3 | STD3 240-43665/4 | 20511004.D |
| Level 4 | STD4 240-43665/3 | 20511003.D |
| Level 5 | STD5 240-43665/2 | 20511002.D |
| Level 6 | STD6 240-43665/10 | 20511010.D |
| Level 7 | STD7 240-43665/9 | 20511009.D |
| Level 8 | STD8 240-43665/8 | 20511008.D |
| Level 9 | STD9 240-43665/7 | 20511007.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 1,4-Dioxane | 0.8214 | 0.7424<br>0.8345 | 0.8429<br>0.7791 | 0.7470<br>0.8123 | 0.6817 | Ave | | 0.7827 | | | | 7.1 | | 15.0 | | | |
| N-Nitrosodimethylamine | 1.3517 | 1.1966<br>1.3430 | 1.1696<br>1.3633 | 1.2470<br>1.2652 | 1.0985 | Ave | | 1.2544 | | | | 7.6 | | 15.0 | | | |
| Pyridine | 2.2974 | 1.9328<br>2.3707 | 1.9078<br>2.3286 | 1.9502<br>2.3534 | 1.8306 | Ave | | 2.1214 | | | | 11.0 | | 15.0 | | | |
| Ethyl methacrylate | 1.6866 | 1.3892<br>1.6940 | 1.4486<br>1.6548 | 1.5423<br>1.6320 | 1.3388 | Ave | | 1.5483 | | | | 9.1 | | 15.0 | | | |
| Benzaldehyde | 1.5333<br>0.8741 | 1.2294<br>+++++ | 1.1836<br>+++++ | 1.2281<br>+++++ | 1.1826 | Ave | | 1.2052 | | | | 17.0 | * | 15.0 | | | |
| 3-Chloropropionitrile | 1.4897 | 1.2595<br>1.4622 | 1.3006<br>1.4937 | 1.3044<br>1.3859 | 1.2124 | Ave | | 1.3636 | | | | 8.0 | | 15.0 | | | |
| Malononitrile | 2.2448 | 1.9935<br>1.8577 | 2.0845<br>1.6532 | 2.1475<br>1.3326 | 2.0596 | Qua | -0.921 | 2.8087 | -0.057 | | | | | | 0.9970 | | 0.9900 |
| Phenol | 1.8841 | 1.8281<br>1.8717 | 1.6617<br>1.9458 | 1.8052<br>1.8512 | 1.7580 | Ave | | 1.8257 | | | | 4.7 | | 15.0 | | | |
| Aniline | 2.4151 | 2.2639<br>2.3911 | 2.0794<br>2.6720 | 2.3016<br>2.4648 | 2.2573 | Ave | | 2.3556 | | | | 7.4 | | 15.0 | | | |
| Bis(2-chloroethyl)ether | 1.6894 | 1.5295<br>1.6002 | 1.6300<br>1.6117 | 1.5935<br>1.5697 | 1.4387 | Ave | | 1.5829 | | | | 4.7 | | 15.0 | | | |
| 2-Chlorophenol | 1.5079 | 1.4241<br>1.4922 | 1.3577<br>1.5327 | 1.4941<br>1.4601 | 1.4438 | Ave | | 1.4641 | | | | 3.8 | | 15.0 | | | |
| 1,3-Dichlorobenzene | 1.5599 | 1.5840<br>1.5209 | 1.5347<br>1.5599 | 1.5653<br>1.5199 | 1.4890 | Ave | | 1.5417 | | | | 2.0 | | 15.0 | | | |
| 1,4-Dichlorobenzene | 1.5862 | 1.5357<br>1.5490 | 1.5652<br>1.6083 | 1.5720<br>1.5963 | 1.5055 | Ave | | 1.5648 | | | | 2.2 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

ICV

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Lab Sample ID: ICV 240-43665/11 Calibration Date: 05/11/2012 12:06

Instrument ID: A4HP7 Calib Start Date: 05/11/2012 09:17

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 05/11/2012 11:47

Lab File ID: 20511011.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | Ave | 0.7827 | 1.792 | | 22.9 | 10.0 | 128.9* | 50.0 |
| N-Nitrosodimethylamine | Ave | 1.254 | 1.385 | | 11.0 | 10.0 | 10.4 | 50.0 |
| Pyridine | Ave | 2.121 | 2.312 | | 10.9 | 10.0 | 9.0 | 50.0 |
| Ethyl methacrylate | Ave | 1.548 | 1.663 | | 10.7 | 10.0 | 7.4 | 50.0 |
| 3-Chloropropionitrile | Ave | 1.364 | 1.513 | | 11.1 | 10.0 | 11.0 | 50.0 |
| Malononitrile | Qua | | 2.271 | | 10.8 | 10.0 | 8.0 | 50.0 |
| Benzaldehyde | Ave | 1.205 | 0.7368 | | 6.11 | 10.0 | -38.9 | 50.0 |
| Phenol | Ave | 1.826 | 1.912 | | 10.5 | 10.0 | 4.7 | 20.0 |
| Aniline | Ave | 2.356 | 2.457 | | 10.4 | 10.0 | 4.3 | 50.0 |
| Bis(2-chloroethyl)ether | Ave | 1.583 | 1.667 | | 10.5 | 10.0 | 5.3 | 50.0 |
| 2-Chlorophenol | Ave | 1.464 | 1.525 | | 10.4 | 10.0 | 4.2 | 50.0 |
| 1,3-Dichlorobenzene | Ave | 1.542 | 1.553 | | 10.1 | 10.0 | 0.7 | 50.0 |
| 1,4-Dichlorobenzene | Ave | 1.565 | 1.585 | | 10.1 | 10.0 | 1.3 | 20.0 |
| Benzyl alcohol | Ave | 0.9081 | 0.9464 | | 10.4 | 10.0 | 4.2 | 50.0 |
| 1,2-Dichlorobenzene | Ave | 1.430 | 1.443 | | 10.1 | 10.0 | 0.9 | 50.0 |
| 2-Methylphenol | Ave | 1.285 | 1.318 | | 10.3 | 10.0 | 2.6 | 50.0 |
| bis (2-chloroisopropyl) ether | Ave | 2.393 | 2.451 | | 10.2 | 10.0 | 2.4 | 50.0 |
| 3 & 4 Methylphenol | Ave | 1.345 | 1.375 | | 10.2 | 10.0 | 2.3 | 50.0 |
| N-Nitrosodi-n-propylamine | Ave | 0.9738 | 1.018 | 0.0500 | 10.5 | 10.0 | 4.6 | 50.0 |
| Acetophenone | Ave | 1.885 | 1.946 | | 10.3 | 10.0 | 3.2 | 50.0 |
| Hexachloroethane | Ave | 0.5545 | 0.5753 | | 10.4 | 10.0 | 3.7 | 50.0 |
| Nitrobenzene | Ave | 0.4062 | 0.4273 | | 10.5 | 10.0 | 5.2 | 50.0 |
| Isophorone | Ave | 0.7209 | 0.7540 | | 10.5 | 10.0 | 4.6 | 50.0 |
| 2,4-Dimethylphenol | Ave | 0.3697 | 0.3794 | | 10.3 | 10.0 | 2.6 | 50.0 |
| 2-Nitrophenol | Ave | 0.1894 | 0.1968 | | 10.4 | 10.0 | 3.9 | 20.0 |
| 1,3,5-Trichlorobenzene | Ave | 0.3433 | 0.3404 | | 9.92 | 10.0 | -0.8 | 50.0 |
| Bis(2-chloroethoxy)methane | Ave | 0.4323 | 0.4458 | | 10.3 | 10.0 | 3.1 | 50.0 |
| Benzoic acid | Qua | | 0.2483 | | 21.0 | 20.0 | 5.0 | 50.0 |
| 2,4-Dichlorophenol | Ave | 0.3052 | 0.3155 | | 10.3 | 10.0 | 3.4 | 20.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.3316 | 0.3285 | | 9.91 | 10.0 | -0.9 | 50.0 |
| Naphthalene | Ave | 1.108 | 1.114 | | 10.1 | 10.0 | 0.5 | 50.0 |
| 4-Chloroaniline | Ave | 0.4507 | 0.4746 | | 10.5 | 10.0 | 5.3 | 50.0 |
| Hexachlorobutadiene | Ave | 0.1695 | 0.1692 | | 9.98 | 10.0 | -0.2 | 20.0 |
| 1,2,3-Trichlorobenzene | Ave | 0.3021 | 0.3048 | | 10.1 | 10.0 | 0.9 | 50.0 |
| Caprolactam | Ave | 0.1145 | 0.1256 | | 11.0 | 10.0 | 9.6 | 50.0 |
| 4-Chloro-3-methylphenol | Ave | 0.2919 | 0.3026 | | 10.4 | 10.0 | 3.7 | 20.0 |
| 2-Methylnaphthalene | Ave | 0.6841 | 0.6838 | | 10.0 | 10.0 | -0.0 | 50.0 |
| 1-Methylnaphthalene | Ave | 0.6531 | 0.6428 | | 9.84 | 10.0 | -1.6 | 50.0 |
| 1,2,3,5-Tetrachlorobenzene | Ave | 0.5500 | 0.5470 | | 9.94 | 10.0 | -0.6 | 50.0 |
| Hexachlorocyclopentadiene | Ave | 0.3241 | 0.3370 | 0.0500 | 10.4 | 10.0 | 4.0 | 50.0 |

FORM II
GASOLINE RANGE ORGANICS SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): RTX-VRX ID: 0.45 (mm)

| Client Sample ID | Lab Sample ID | TFT1 # |
|---|---|---|
| GSP-MW5-043012 | 240-10808-2 | 60 |
| GSP-MW6-043012 | 240-10808-3 | 56 |
| MT-MW02S-043012 | 240-10808-4 | 94 |
| | MB 240-42995/6 | 58 |
| | LCS 240-42995/7 | 70 |
| GSP-MW5-043012 MS | 240-10808-2 MS | 73 |
| GSP-MW5-043012 MSD | 240-10808-2 MSD | 71 |

| | QC LIMITS |
|---|---|
| TFT = Trifluorotoluene (Surr) | 10-150 |

# Column to be used to flag recovery values

FORM II 8015B

FORM IV
GASOLINE RANGE ORGANICS METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Lab Sample ID: MB 240-42995/6

Matrix: Water Date Extracted: 05/07/2012 13:20

Lab File ID:(1) YF050706.D Lab File ID:(2)

Date Analyzed:(1) 05/07/2012 13:20 Date Analyzed:(2)

Instrument ID:(1) YPID Instrument ID:(2)

GC Column:(1) RTX-VRX ID: 0.45(mm) GC Column:(2) ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | DATE ANALYZED 1 | DATE ANALYZED 2 |
|---|---|---|---|
| | LCS 240-42995/7 | 05/07/2012 14:00 | |
| GSP-MW5-043012 | 240-10808-2 | 05/07/2012 14:40 | |
| GSP-MW5-043012 MS | 240-10808-2 MS | 05/07/2012 15:20 | |
| GSP-MW5-043012 MSD | 240-10808-2 MSD | 05/07/2012 16:00 | |
| GSP-MW6-043012 | 240-10808-3 | 05/07/2012 16:42 | |
| MT-MW02S-043012 | 240-10808-4 | 05/07/2012 17:23 | |

FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-42995/6

Matrix: Water Lab File ID: YF050706.D

Analysis Method: 8015B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 05/07/2012 13:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VRX ID: 0.45(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 42995 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 8006-61-9 | Total Petroleum Hydrocarbons (C6-C10) | 28.0 | J | 100 | 25 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 98-08-8 | Trifluorotoluene (Surr) | 58 | | 10-150 |

FORM III
GASOLINE RANGE ORGANICS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Matrix: Water Level: Low Lab File ID: YF050707.D

Lab ID: LCS 240-42995/7 Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C6-C10) | 800 | 942 | 118 | 72-140 | |

# Column to be used to flag recovery and RPD values

FORM III 8015B

FORM III
GASOLINE RANGE ORGANICS MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Matrix: Water Level: Low Lab File ID: YF050709.D

Lab ID: 240-10808-2 MS Client ID: GSP-MW5-043012 MS

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C6-C10) | 800 | 37 J | 962 | 116 | 63-143 | |

# Column to be used to flag recovery and RPD values

FORM III 8015B

FORM III
GASOLINE RANGE ORGANICS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Matrix: Water Level: Low Lab File ID: YF050710.D

Lab ID: 240-10808-2 MSD Client ID: GSP-MW5-043012 MSD

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD % REC | % RPD | QC LIMITS RPD | QC LIMITS REC | # |
|---|---|---|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C6-C10) | 800 | 953 | 115 | 1 | 20 | 63-143 | |

# Column to be used to flag recovery and RPD values

FORM III 8015B

FORM VIII
GASOLINE RANGE ORGANICS ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Sample No.: CCV 240-42995/5 Date Analyzed: 05/07/2012 12:40

Instrument ID: YPID GC Column: RTX-VRX ID: 0.45(mm)

Lab File ID (Standard): YF050705.D Heated Purge: (Y/N) N

Calibration ID: 6924

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

| | | | | TFT RT # | | |
|---|---|---|---|---|---|---|
| CONTINUING CALIBRATION SURROGATE | | | | 9.76 | | |
| UPPER LIMIT | | | | 9.86 | | |
| LOWER LIMIT | | | | 9.66 | | |
| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | LAB FILE ID | | | |
| CCV 240-42995/5 CCVRT | | 05/07/2012 12:40 | YF050705.D | 9.76 | | |
| MB 240-42995/6 | | 05/07/2012 13:20 | YF050706.D | 9.75 | | |
| LCS 240-42995/7 | | 05/07/2012 14:00 | YF050707.D | 9.75 | | |
| 240-10808-2 | GSP-MW5-043012 | 05/07/2012 14:40 | YF050708.D | 9.76 | | |
| 240-10808-2 MS | GSP-MW5-043012 MS | 05/07/2012 15:20 | YF050709.D | 9.76 | | |
| 240-10808-2 MSD | GSP-MW5-043012 MSD | 05/07/2012 16:00 | YF050710.D | 9.76 | | |
| 240-10808-3 | GSP-MW6-043012 | 05/07/2012 16:42 | YF050711.D | 9.75 | | |
| 240-10808-4 | MT-MW02S-043012 | 05/07/2012 17:23 | YF050712.D | 9.76 | | |
| CCV 240-42995/16 | | 05/07/2012 20:05 | YF050716.D | 9.76 | | |

TFT = Trifluorotoluene (Surr)

TFT RT Limit = ± 0.1 minutes of surrogate RT

# Column used to flag values outside QC limits

FORM VIII 8015B

GASOLINE RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Instrument ID: YPID Start Date: 02/10/2012 10:35

Analysis Batch Number: 33435 End Date: 02/10/2012 23:53

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| ZZZZZ | | 02/10/2012 10:35 | 1 | | RTX-VRX 0.45(mm) |
| STD1 240-33435/12 IC | | 02/10/2012 16:17 | 1 | YF021012.D | RTX-VRX 0.45(mm) |
| STD2 240-33435/13 IC | | 02/10/2012 16:55 | 1 | YF021013.D | RTX-VRX 0.45(mm) |
| STD3 240-33435/14 IC | | 02/10/2012 17:32 | 1 | YF021014.D | RTX-VRX 0.45(mm) |
| STD4 240-33435/15 ICRT | | 02/10/2012 18:11 | 1 | YF021015.D | RTX-VRX 0.45(mm) |
| STD5 240-33435/16 IC | | 02/10/2012 18:49 | 1 | YF021016.D | RTX-VRX 0.45(mm) |
| STD6 240-33435/17 IC | | 02/10/2012 19:27 | 1 | YF021017.D | RTX-VRX 0.45(mm) |
| ICV 240-33435/18 | | 02/10/2012 20:05 | 1 | YF021018.D | RTX-VRX 0.45(mm) |
| ZZZZZ | | 02/10/2012 20:43 | 1 | | RTX-VRX 0.45(mm) |
| ZZZZZ | | 02/10/2012 21:21 | 1 | | RTX-VRX 0.45(mm) |
| ZZZZZ | | 02/10/2012 21:59 | 10 | | RTX-VRX 0.45(mm) |
| ZZZZZ | | 02/10/2012 22:37 | 10 | | RTX-VRX 0.45(mm) |
| ZZZZZ | | 02/10/2012 23:15 | 10 | | RTX-VRX 0.45(mm) |
| CCV 240-33435/24 | | 02/10/2012 23:53 | 1 | | RTX-VRX 0.45(mm) |

FORM VI
GASOLINE RANGE ORGANICS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-10808-1 Analy Batch No.: 33435

SDG No.:

Instrument ID: YPID GC Column: RTX-VRX ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/10/2012 16:17 Calibration End Date: 02/10/2012 19:27 Calibration ID: 6924

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-33435/12 | YF021012.D |
| Level 2 | STD2 240-33435/13 | YF021013.D |
| Level 3 | STD3 240-33435/14 | YF021014.D |
| Level 4 | STD4 240-33435/15 | YF021015.D |
| Level 5 | STD5 240-33435/16 | YF021016.D |
| Level 6 | STD6 240-33435/17 | YF021017.D |

| ANALYTE | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 6 | | | | | RT WINDOW | AVG RT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C6-C10) | 11.810 | 11.810 | 11.810 | 11.810 | 11.810 | 11.810 | | | | | 4.817 - 18.802 | 11.810 |
| C6-C12 | 13.469 | 13.469 | 13.469 | 13.469 | 13.469 | 13.469 | | | | | 4.917 - 22.022 | 13.469 |
| Trifluorotoluene (Surr) | 9.768 | 9.772 | 9.769 | 9.772 | 9.771 | 9.774 | | | | | 9.522 - 10.022 | 9.771 |

FORM VI
GASOLINE RANGE ORGANICS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-10808-1 Analy Batch No.: 33435

SDG No.:

Instrument ID: YPID GC Column: RTX-VRX ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/10/2012 16:17 Calibration End Date: 02/10/2012 19:27 Calibration ID: 6924

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-33435/12 | YF021012.D |
| Level 2 | STD2 240-33435/13 | YF021013.D |
| Level 3 | STD3 240-33435/14 | YF021014.D |
| Level 4 | STD4 240-33435/15 | YF021015.D |
| Level 5 | STD5 240-33435/16 | YF021016.D |
| Level 6 | STD6 240-33435/17 | YF021017.D |

| ANALYTE | CF | | | | CURVE TYPE | COEFFICIENT | | | # | MIN CF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1 LVL 5 | LVL 2 LVL 6 | LVL 3 | LVL 4 | | B | M1 | M2 | | | | | | | | |
| Total Petroleum Hydrocarbons (C6-C10) | 318103 289067 | 320460 294590 | 282575 | 294457 | Ave | | 299875.299 | | | | 5.2 | | 20.0 | | | |
| C6-C12 | 375472 318195 | 363940 323226 | 316555 | 324196 | Ave | | 336930.834 | | | | 7.7 | | 20.0 | | | |
| Trifluorotoluene (Surr) | 384133 460736 | 375012 483108 | 395882 | 424093 | Ave | | 420494.083 | | | | 10.0 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VII
GASOLINE RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Lab Sample ID: ICV 240-33435/18 Calibration Date: 02/10/2012 20:05

Instrument ID: YPID Calib Start Date: 02/10/2012 16:17

GC Column: RTX-VRX ID: 0.45(mm) Calib End Date: 02/10/2012 19:27

Lab File ID: YF021018.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C6-C10) | Ave | 299875 | 333932 | | 891 | 800 | 11.4 | 20.0 |
| C6-C12 | Ave | 336931 | 375679 | | 892 | 800 | 11.5 | 20.0 |
| Trifluorotoluene (Surr) | Ave | 420494 | 416828 | | 9.91 | 10.0 | -0.9 | 20.0 |

GASOLINE RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Instrument ID: YPID Start Date: 05/07/2012 11:20

Analysis Batch Number: 42995 End Date: 05/07/2012 21:23

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| ZZZZZ | | 05/07/2012 11:20 | 1 | | RTX-VRX 0.45(mm) |
| CCV 240-42995/5 CCVRT | | 05/07/2012 12:40 | 1 | YF050705.D | RTX-VRX 0.45(mm) |
| MB 240-42995/6 | | 05/07/2012 13:20 | 1 | YF050706.D | RTX-VRX 0.45(mm) |
| LCS 240-42995/7 | | 05/07/2012 14:00 | 1 | YF050707.D | RTX-VRX 0.45(mm) |
| 240-10808-2 | GSP-MW5-043012 | 05/07/2012 14:40 | 1 | YF050708.D | RTX-VRX 0.45(mm) |
| 240-10808-2 MS | GSP-MW5-043012 MS | 05/07/2012 15:20 | 1 | YF050709.D | RTX-VRX 0.45(mm) |
| 240-10808-2 MSD | GSP-MW5-043012 MSD | 05/07/2012 16:00 | 1 | YF050710.D | RTX-VRX 0.45(mm) |
| 240-10808-3 | GSP-MW6-043012 | 05/07/2012 16:42 | 1 | YF050711.D | RTX-VRX 0.45(mm) |
| 240-10808-4 | MT-MW02S-043012 | 05/07/2012 17:23 | 1 | YF050712.D | RTX-VRX 0.45(mm) |
| ZZZZZ | | 05/07/2012 18:04 | 1 | | RTX-VRX 0.45(mm) |
| ZZZZZ | | 05/07/2012 18:45 | 1 | | RTX-VRX 0.45(mm) |
| ZZZZZ | | 05/07/2012 19:26 | 1 | | RTX-VRX 0.45(mm) |
| CCV 240-42995/16 | | 05/07/2012 20:05 | 1 | YF050716.D | RTX-VRX 0.45(mm) |
| ZZZZZ | | 05/07/2012 20:45 | 1 | | RTX-VRX 0.45(mm) |
| CCV 240-42995/18 | | 05/07/2012 21:23 | 1 | | RTX-VRX 0.45(mm) |

FORM VII
GASOLINE RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Lab Sample ID: CCV 240-42995/5 Calibration Date: 05/07/2012 12:40

Instrument ID: YPID Calib Start Date: 02/10/2012 16:17

GC Column: RTX-VRX ID: 0.45(mm) Calib End Date: 02/10/2012 19:27

Lab File ID: YF050705.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C6-C10) | Ave | 299875 | 319991 | | 854 | 800 | 6.7 | 15.0 |
| C6-C12 | Ave | 336931 | 352680 | | 837 | 800 | 4.7 | 15.0 |
| Trifluorotoluene (Surr) | Ave | 420494 | 308604 | | 7.34 | 10.0 | -26.6* | 15.0 |

FORM VII
GASOLINE RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Lab Sample ID: CCV 240-42995/16 Calibration Date: 05/07/2012 20:05

Instrument ID: YPID Calib Start Date: 02/10/2012 16:17

GC Column: RTX-VRX ID: 0.45(mm) Calib End Date: 02/10/2012 19:27

Lab File ID: YF050716.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C6-C10) | Ave | 299875 | 325536 | | 869 | 800 | 8.6 | 15.0 |
| C6-C12 | Ave | 336931 | 359447 | | 854 | 800 | 6.7 | 15.0 |
| Trifluorotoluene (Surr) | Ave | 420494 | 291877 | | 6.94 | 10.0 | -30.6* | 15.0 |

FORM II
DIESEL RANGE ORGANICS SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): ID:

| Client Sample ID | Lab Sample ID | C91 # |
|---|---|---|
| GSP-MW5-043012 | 240-10808-2 | 69 |
| GSP-MW6-043012 | 240-10808-3 | 67 |
| MT-MW02S-043012 | 240-10808-4 | 57 |
| | MB 240-42831/9-A | 64 |
| | LCS 240-42831/10-A | 74 |

| | QC LIMITS |
|---|---|
| C9 = n-Nonane | 10-110 |

# Column to be used to flag recovery values

FORM II 8015B

FORM IV
DIESEL RANGE ORGANICS METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Lab Sample ID: MB 240-42831/9-A

Matrix: Water Date Extracted: 05/04/2012 12:16

Lab File ID:(1) P5F05083.D Lab File ID:(2)

Date Analyzed:(1) 05/07/2012 14:15 Date Analyzed:(2)

Instrument ID:(1) A2HP5F Instrument ID:(2)

GC Column:(1) ID: GC Column:(2) ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | DATE ANALYZED 1 | DATE ANALYZED 2 |
|---|---|---|---|
| GSP-MW5-043012 | 240-10808-2 | 05/07/2012 10:16 | |
| GSP-MW6-043012 | 240-10808-3 | 05/07/2012 10:46 | |
| MT-MW02S-043012 | 240-10808-4 | 05/07/2012 11:16 | |
| | LCS 240-42831/10-A | 05/07/2012 14:45 | |

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-10808-1

SDG No.:

Client Sample ID:  Lab Sample ID: MB 240-42831/9-A

Matrix: Water  Lab File ID: P5F05083.D

Analysis Method: 8015B  Date Collected:

Extraction Method: 3510C  Date Extracted: 05/04/2012 12:16

Sample wt/vol: 1000(mL)  Date Analyzed: 05/07/2012 14:15

Con. Extract Vol.: 5(mL)  Dilution Factor: 1

Injection Volume: 1(uL)  GC Column:  ID:

% Moisture:  GPC Cleanup:(Y/N) N

Analysis Batch No.: 42964  Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| STL00141 | Total Petroleum Hydrocarbons (C10-C32) | 500 | U | 500 | 240 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 111-84-2 | n-Nonane | 64 | | 10-110 |

FORM III
DIESEL RANGE ORGANICS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P5F05084.D

Lab ID: LCS 240-42831/10-A Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| Diesel | 2500 | 2230 | 89 | 36-124 | |

# Column to be used to flag recovery and RPD values

FORM III 8015B

FORM VIII
DIESEL RANGE ORGANICS ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Sample No.: CCVRT 240-42964/4 Date Analyzed: 05/07/2012 09:46

Instrument ID: A2HP5F GC Column: ID: ()

Lab File ID (Standard): P5F05074.D Heated Purge: (Y/N) N

Calibration ID: 8059

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

| | | | | C9 RT # | | |
|---|---|---|---|---|---|---|
| CONTINUING CALIBRATION SURROGATE | | | | 3.80 | | |
| UPPER LIMIT | | | | 3.90 | | |
| LOWER LIMIT | | | | 3.70 | | |
| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | LAB FILE ID | | | |
| CCVRT 240-42964/4 | | 05/07/2012 09:46 | P5F05074.D | 3.80 | | |
| 240-10808-2 | GSP-MW5-043012 | 05/07/2012 10:16 | P5F05075.D | 3.80 | | |
| 240-10808-3 | GSP-MW6-043012 | 05/07/2012 10:46 | P5F05076.D | 3.80 | | |
| 240-10808-4 | MT-MW02S-043012 | 05/07/2012 11:16 | P5F05077.D | 3.80 | | |
| MB 240-42831/9-A | | 05/07/2012 14:15 | P5F05083.D | 3.80 | | |
| LCS 240-42831/10-A | | 05/07/2012 14:45 | P5F05084.D | 3.80 | | |
| CCV 240-42964/15 | | 05/07/2012 15:15 | P5F05085.D | 3.80 | | |

C9 = n-Nonane

C9 RT Limit = ± 0.1 minutes of surrogate RT

# Column used to flag values outside QC limits

FORM VIII 8015B

DIESEL RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Instrument ID: A2HP5F Start Date: 04/13/2012 10:08

Analysis Batch Number: 40180 End Date: 04/13/2012 15:36

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| STD1 240-40180/4 IC | | 04/13/2012 10:08 | 1 | P5F04134.D | |
| STD2 240-40180/5 IC | | 04/13/2012 10:38 | 1 | P5F04135.D | |
| STD3 240-40180/6 IC | | 04/13/2012 11:08 | 1 | P5F04136.D | |
| STD4 240-40180/7 IC | | 04/13/2012 11:38 | 1 | P5F04137.D | |
| STD5 240-40180/8 IC | | 04/13/2012 12:08 | 1 | P5F04138.D | |
| ICV 240-40180/9 | | 04/13/2012 12:38 | 1 | P5F04139.D | |
| STD1 240-40180/10 IC | | 04/13/2012 13:08 | 1 | | |
| STD2 240-40180/11 IC | | 04/13/2012 13:38 | 1 | | |
| STD3 240-40180/12 IC | | 04/13/2012 14:08 | 1 | | |
| STD4 240-40180/13 IC | | 04/13/2012 14:37 | 1 | | |
| STD5 240-40180/14 IC | | 04/13/2012 15:06 | 1 | | |
| ICV 240-40180/15 | | 04/13/2012 15:36 | 1 | | |

FORM VI
DIESEL RANGE ORGANICS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-10808-1 Analy Batch No.: 40180

SDG No.:

Instrument ID: A2HP5F GC Column: ID: Heated Purge: (Y/N) N

Calibration Start Date: 04/13/2012 10:08 Calibration End Date: 04/13/2012 12:08 Calibration ID: 8059

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-40180/4 | P5F04134.D |
| Level 2 | STD2 240-40180/5 | P5F04135.D |
| Level 3 | STD3 240-40180/6 | P5F04136.D |
| Level 4 | STD4 240-40180/7 | P5F04137.D |
| Level 5 | STD5 240-40180/8 | P5F04138.D |

| ANALYTE | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | | | | | RT WINDOW | AVG RT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel | 9.179 | 9.179 | 9.179 | 9.179 | 9.179 | | | | | | 4.893 - 13.468 | 9.179 |
| n-Nonane | 3.798 | 3.796 | 3.795 | 3.799 | 3.802 | | | | | | 3.728 - 3.868 | 3.798 |

FORM VI
DIESEL RANGE ORGANICS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-10808-1 Analy Batch No.: 40180

SDG No.:

Instrument ID: A2HP5F GC Column: ID: Heated Purge: (Y/N) N

Calibration Start Date: 04/13/2012 10:08 Calibration End Date: 04/13/2012 12:08 Calibration ID: 8059

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-40180/4 | P5F04134.D |
| Level 2 | STD2 240-40180/5 | P5F04135.D |
| Level 3 | STD3 240-40180/6 | P5F04136.D |
| Level 4 | STD4 240-40180/7 | P5F04137.D |
| Level 5 | STD5 240-40180/8 | P5F04138.D |

| ANALYTE | CF | | | | CURVE TYPE | COEFFICIENT | | | # | MIN CF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 5 | LVL 2 | LVL 3 | LVL 4 | | B | M1 | M2 | | | | | | | | |
| Diesel | 197527<br>183497 | 194334 | 179644 | 186362 | Ave | | 188272.909 | | | | 4.0 | | 20.0 | | | |
| n-Nonane | 222434<br>217668 | 222225 | 205767 | 214296 | Ave | | 216478.041 | | | | 3.2 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Lab Sample ID: ICV 240-40180/9 Calibration Date: 04/13/2012 12:38

Instrument ID: A2HP5F Calib Start Date: 04/13/2012 10:08

GC Column: ID: Calib End Date: 04/13/2012 12:08

Lab File ID: P5F04139.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Diesel | Ave | 188273 | 191992 | | 510 | 500 | 2.0 | 20.0 |

DIESEL RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Instrument ID: A2HP5F Start Date: 05/07/2012 09:46

Analysis Batch Number: 42964 End Date: 05/07/2012 15:15

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| CCVRT 240-42964/4 | | 05/07/2012 09:46 | 1 | P5F05074.D | |
| 240-10808-2 | GSP-MW5-043012 | 05/07/2012 10:16 | 1 | P5F05075.D | |
| 240-10808-3 | GSP-MW6-043012 | 05/07/2012 10:46 | 1 | P5F05076.D | |
| 240-10808-4 | MT-MW02S-043012 | 05/07/2012 11:16 | 1 | P5F05077.D | |
| ZZZZZ | | 05/07/2012 11:45 | 1 | | |
| ZZZZZ | | 05/07/2012 12:15 | 1 | | |
| ZZZZZ | | 05/07/2012 12:45 | 1 | | |
| ZZZZZ | | 05/07/2012 13:15 | 1 | | |
| ZZZZZ | | 05/07/2012 13:45 | 1 | | |
| MB 240-42831/9-A | | 05/07/2012 14:15 | 1 | P5F05083.D | |
| LCS 240-42831/10-A | | 05/07/2012 14:45 | 1 | P5F05084.D | |
| CCV 240-42964/15 | | 05/07/2012 15:15 | 1 | P5F05085.D | |

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Lab Sample ID: CCVRT 240-42964/4 Calibration Date: 05/07/2012 09:46

Instrument ID: A2HP5F Calib Start Date: 04/13/2012 10:08

GC Column: ID: Calib End Date: 04/13/2012 12:08

Lab File ID: P5F05074.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Diesel | Ave | 188273 | 195069 | | 518 | 500 | 3.6 | 15.0 |
| n-Nonane | Ave | 216478 | 235449 | | 54.4 | 50.0 | 8.8 | 15.0 |

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Lab Sample ID: CCV 240-42964/15 Calibration Date: 05/07/2012 15:15

Instrument ID: A2HP5F Calib Start Date: 04/13/2012 10:08

GC Column: ID: Calib End Date: 04/13/2012 12:08

Lab File ID: P5F05085.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Diesel | Ave | 188273 | 207212 | | 550 | 500 | 10.1 | 15.0 |
| n-Nonane | Ave | 216478 | 240161 | | 55.5 | 50.0 | 10.9 | 15.0 |

# HOLDTIME

**SDG** 240-10808-1

| SORT | UNITS | NSAMPLE | LAB_ID | QC_TYPE | SAMP_DATE | EXTR_DATE | ANAL_DATE | SMP_EXTR | EXTR_ANL | SMP_ANL |
|---|---|---|---|---|---|---|---|---|---|---|
| HG | UG/L | GSP-MW5-043012 | 240-10808-2 | NM | 4/30/2012 | 5/3/2012 | 5/4/2012 | 3 | 1 | 4 |
| HG | UG/L | GSP-MW6-043012 | 240-10808-3 | NM | 4/30/2012 | 5/7/2012 | 5/8/2012 | 7 | 1 | 8 |
| HG | UG/L | MT-MW02S-043012 | 240-10808-4 | NM | 4/30/2012 | 5/7/2012 | 5/8/2012 | 7 | 1 | 8 |
| M | UG/L | MT-MW02S-043012 | 240-10808-4 | NM | 4/30/2012 | 5/2/2012 | 5/3/2012 | 2 | 1 | 3 |
| M | UG/L | GSP-MW5-043012 | 240-10808-2 | NM | 4/30/2012 | 5/2/2012 | 5/3/2012 | 2 | 1 | 3 |
| M | UG/L | GSP-MW6-043012 | 240-10808-3 | NM | 4/30/2012 | 5/2/2012 | 5/3/2012 | 2 | 1 | 3 |
| HGF | UG/L | MT-MW02S-043012 | 240-10808-4 | NM | 4/30/2012 | 5/7/2012 | 5/8/2012 | 7 | 1 | 8 |
| HGF | UG/L | GSP-MW5-043012 | 240-10808-2 | NM | 4/30/2012 | 5/3/2012 | 5/4/2012 | 3 | 1 | 4 |
| HGF | UG/L | GSP-MW6-043012 | 240-10808-3 | NM | 4/30/2012 | 5/7/2012 | 5/8/2012 | 7 | 1 | 8 |
| MF | UG/L | GSP-MW5-043012 | 240-10808-2 | NM | 4/30/2012 | 5/2/2012 | 5/3/2012 | 2 | 1 | 3 |
| MF | UG/L | MT-MW02S-043012 | 240-10808-4 | NM | 4/30/2012 | 5/2/2012 | 5/3/2012 | 2 | 1 | 3 |
| MF | UG/L | GSP-MW6-043012 | 240-10808-3 | NM | 4/30/2012 | 5/2/2012 | 5/3/2012 | 2 | 1 | 3 |
| PCL | UG/L | MT-MW02S-043012 | 240-10808-4 | NM | 4/30/2012 | 5/7/2012 | 5/15/2012 | 7 | 8 | 15 |
| PCL | UG/L | GSP-MW6-043012 | 240-10808-3 | NM | 4/30/2012 | 5/7/2012 | 5/15/2012 | 7 | 8 | 15 |
| PCL | UG/L | GSP-MW5-043012 | 240-10808-2 | NM | 4/30/2012 | 5/7/2012 | 5/15/2012 | 7 | 8 | 15 |

| SORT | UNITS | NSAMPLE | LAB_ID | QC_TYPE | SAMP_DATE | EXTR_DATE | ANAL_DATE | SMP_EXTR | EXTR_ANL | SMP_ANL |
|---|---|---|---|---|---|---|---|---|---|---|
| OS | UG/L | GSP-MW5-043012 | 240-10808-2 | NM | 4/30/2012 | 5/5/2012 | 5/8/2012 | 5 | 3 | 8 |
| OS | UG/L | MT-MW02S-043012 | 240-10808-4 | NM | 4/30/2012 | 5/5/2012 | 5/8/2012 | 5 | 3 | 8 |
| OS | UG/L | GSP-MW6-043012 | 240-10808-3 | NM | 4/30/2012 | 5/5/2012 | 5/8/2012 | 5 | 3 | 8 |
| OV | UG/L | TB-043012 | 240-10808-1 | NM | 4/30/2012 | 5/10/2012 | 5/10/2012 | 10 | 0 | 10 |
| OV | UG/L | GSP-MW5-043012 | 240-10808-2 | NM | 4/30/2012 | 5/10/2012 | 5/10/2012 | 10 | 0 | 10 |
| OV | UG/L | GSP-MW6-043012 | 240-10808-3 | NM | 4/30/2012 | 5/10/2012 | 5/10/2012 | 10 | 0 | 10 |
| OV | UG/L | MT-MW02S-043012 | 240-10808-4 | NM | 4/30/2012 | 5/10/2012 | 5/10/2012 | 10 | 0 | 10 |
| OV | UG/L | TB-043012 | 240-10808-1 | TB | 4/30/2012 | 5/10/2012 | 5/10/2012 | 10 | 0 | 10 |
| DRO | UG/L | GSP-MW5-043012 | 240-10808-2 | NM | 4/30/2012 | 5/4/2012 | 5/7/2012 | 4 | 3 | 7 |
| DRO | UG/L | MT-MW02S-043012 | 240-10808-4 | NM | 4/30/2012 | 5/4/2012 | 5/7/2012 | 4 | 3 | 7 |
| DRO | UG/L | GSP-MW6-043012 | 240-10808-3 | NM | 4/30/2012 | 5/4/2012 | 5/7/2012 | 4 | 3 | 7 |
| GRO | UG/L | MT-MW02S-043012 | 240-10808-4 | NM | 4/30/2012 | 5/7/2012 | 5/7/2012 | 7 | 0 | 7 |
| GRO | UG/L | GSP-MW6-043012 | 240-10808-3 | NM | 4/30/2012 | 5/7/2012 | 5/7/2012 | 7 | 0 | 7 |
| GRO | UG/L | GSP-MW5-043012 | 240-10808-2 | NM | 4/30/2012 | 5/7/2012 | 5/7/2012 | 7 | 0 | 7 |

**Tetra Tech** **INTERNAL CORRESPONDENCE**

**TO:** **T. APANAVAGE** **DATE: JUNE 29, 2012**

**FROM:** **TERRI L. SOLOMON** **COPIES: DV FILE**

**SUBJECT:** **ORGANIC / INORGANIC DATA VALIDATION – SELECT METALS, PERCHLORATE**
**MARTIN STATE AIRPORT – GROUNDWATER**
**SAMPLE DELIVERY GROUP (SDG) – 240-10808-1**

**SAMPLES:** 3/Aqueous/

GSP-MW5-043012 GSP-MW6-043012
MT-MW02S-043012

Overview

The sample set for Martin State Airport - Groundwater, SDG 240-10808-1, consists of three (3) aqueous environmental samples. No field duplicate pairs were included within this SDG.

All samples were analyzed for perchlorate and select total and dissolved metals including antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, tungsten, vanadium and zinc. The samples were collected by Tetra Tech on April 30, 2012 and analyzed by TestAmerica. Metals analyses were conducted using SW-846 method 6020. Mercury analyses were conducted using SW-846 method 7470A. Perchlorate analyses were conducted using SW-846 method 6850.

The findings offered in this report are based upon a general review of all available data. The data review was based on data completeness, holding times, initial and continuing calibration verification results, laboratory method / preparation blank results, ICP interference results, laboratory control sample recoveries, matrix spike/matrix spike duplicate recoveries, ICP serial dilution results, internal standard recoveries, detection limits and analyte quantitation.

Areas of concern with respect to data quality are listed below.

Major Problems

None.

Minor Problems

- The contract required detection limit (CRDL) percent recoveries for cadmium, cobalt, lead and nickel were > 110% quality control limit affecting all samples. Positive results < 2X CRDL for cadmium, cobalt, lead and nickel were qualified as either biased high, "K" or estimated, "J", as a result of conflicting noncompliances.

- The following contaminants were detected in the laboratory method/preparation blanks at the following maximum concentrations:

| Analyte | Maximum Concentration | Action Level |
|---|---|---|
| Antimony[(1)] | 0.138 ug/L | 0.69 ug/L |
| Cobalt[(1)] | 0.0610 ug/L | 0.305 ug/L |
| Molybdenum[(1)] | 0.678 ug/L | 3.39 ug/L |
| Thallium[(1)] | 0.554 ug/L | 2.77 ug/L |
| Tungsten[(1)] | 0.868 ug/L | 4.34 ug/L |
| Barium[(2)] | 0.541 ug/L | 2.705 ug/L |
| Copper[(2)] | 0.388 ug/L | 1.94 ug/L |
| Zinc[(2)] | 4.57 ug/L | 22.85 ug/L |

  [(1)] Maximum concentration present in a method blank affecting all samples.
  [(2)] Maximum concentration present in a preparation blank affecting all samples.

  An action level of 5X the maximum contaminant level has been used to evaluate sample data for blank contamination. Sample aliquot and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. The positive results less than the blank action level reported for copper, molybdenum and thallium were qualified "B" as a result of laboratory blank contamination.

- Positive results reported below the reporting limit (RL) but above the method detection limit (MDL) were qualified as estimated, "J".

Notes

Nondetected results are reported to the method detection limits.

The contract required detection limit (CRDL) percent recoveries for barium, copper, silver and thallium were > 110% quality control limit affecting all samples. However, no validation actions were required as all sample results were either > 2X CRDL, nondetects or were qualified as a result of blank contamination.

Executive Summary

**Laboratory Performance:** Several contaminants were present in the laboratory method / preparation blanks. The CRDL percent recovery for several analytes was > 110% quality control limit affecting all samples.

**Other Factors Affecting Data Quality:** Positive results reported below the RL but above the MDL were qualified as estimated.

The data for these analyses were reviewed with reference to Region III modifications to the "National Functional Guidelines for Inorganic Data Validation", April 1993 and the Region III modifications to U.S. EPA National Functional Guidelines for Organic Data Validation (Sept. 1994).

The text of this report has been formulated to address only those problem areas affecting data quality.

Tetra Tech
Terri L. Solomon
Environmental Scientist

Tetra Tech
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

# APPENDIX A
# QUALIFIED ANALYTICAL RESULTS

**Qualifier Codes:**

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = ICP PDS Recovery Noncompliance; MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = RPD between columns/detectors >40% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity
Z1 = Tentatively Identified Compound considered presumptively present
Z2 = Tentatively Identified Compound column bleed

| PROJ_NO: 04021 | NSAMPLE | GSP-MW5-043012 | | | GSP-MW6-043012 | | | MT-MW02S-043012 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-10808-1 | LAB_ID | 240-10808-2 | | | 240-10808-3 | | | 240-10808-4 | | |
| FRACTION: M | SAMP_DATE | 4/30/2012 | | | 4/30/2012 | | | 4/30/2012 | | |
| MEDIA: WATER | QC_TYPE | NM | | | NM | | | NM | | |
| | UNITS | UG/L | | | UG/L | | | UG/L | | |
| | PCT_SOLIDS | 0.0 | | | 0.0 | | | 0.0 | | |
| | DUP_OF | | | | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| ANTIMONY | | 0.13 | U | | 0.92 | J | P | 0.13 | U | |
| ARSENIC | | 3.4 | J | P | 4 | J | P | 2.3 | J | P |
| BARIUM | | 21 | | | 42 | | | 120 | | |
| BERYLLIUM | | 1.3 | | | 0.2 | U | | 0.74 | J | P |
| CADMIUM | | 0.32 | J | CP | 0.13 | U | | 0.13 | U | |
| CHROMIUM | | 2.2 | | | 0.71 | U | | 0.71 | U | |
| COBALT | | 26 | | | 0.56 | J | CP | 30 | | |
| COPPER | | 4.9 | | | 5 | | | 1.4 | B | A |
| LEAD | | 0.39 | J | CP | 0.18 | U | | 1.3 | K | C |
| MERCURY | | 0.12 | U | | 0.12 | U | | 0.12 | U | |
| MOLYBDENUM | | 0.34 | B | A | 2.7 | B | A | 0.093 | U | |
| NICKEL | | 17 | | | 1.3 | J | CP | 48 | | |
| SELENIUM | | 2.2 | J | P | 14 | | | 0.57 | U | |
| SILVER | | 0.08 | U | | 0.08 | U | | 0.08 | U | |
| THALLIUM | | 0.14 | U | | 0.25 | B | A | 0.15 | B | A |
| TUNGSTEN | | 0.37 | U | | 0.37 | U | | 0.37 | U | |
| VANADIUM | | 4.4 | J | P | 8.5 | J | P | 0.44 | U | |
| ZINC | | 28 | | | 530 | | | 100 | | |

| PROJ_NO: 04021 | NSAMPLE | GSP-MW5-043012 | | | GSP-MW6-043012 | | | MT-MW02S-043012 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-10808-1 | LAB_ID | 240-10808-2 | | | 240-10808-3 | | | 240-10808-4 | | |
| FRACTION: MF | SAMP_DATE | 4/30/2012 | | | 4/30/2012 | | | 4/30/2012 | | |
| MEDIA: WATER | QC_TYPE | NM | | | NM | | | NM | | |
| | UNITS | UG/L | | | UG/L | | | UG/L | | |
| | PCT_SOLIDS | 0.0 | | | 0.0 | | | 0.0 | | |
| | DUP_OF | | | | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| ANTIMONY | | 0.13 | U | | 0.76 | J | P | 0.13 | U | |
| ARSENIC | | 3.5 | J | P | 2.1 | J | P | 1.7 | J | P |
| BARIUM | | 21 | | | 40 | | | 110 | | |
| BERYLLIUM | | 1.4 | | | 0.2 | U | | 0.68 | J | P |
| CADMIUM | | 0.31 | J | CP | 0.13 | U | | 0.13 | U | |
| CHROMIUM | | 0.78 | J | P | 0.71 | U | | 0.71 | U | |
| COBALT | | 29 | | | 0.45 | J | CP | 23 | | |
| COPPER | | 0.34 | B | A | 4.1 | | | 0.62 | B | A |
| LEAD | | 0.18 | U | | 0.18 | U | | 1 | K | C |
| MERCURY | | 0.12 | U | | 0.12 | U | | 0.12 | U | |
| MOLYBDENUM | | 0.35 | B | A | 2.2 | B | A | 0.093 | U | |
| NICKEL | | 19 | | | 1.2 | J | CP | 39 | | |
| SELENIUM | | 2.7 | J | P | 13 | | | 0.57 | U | |
| SILVER | | 0.08 | U | | 0.08 | U | | 0.08 | U | |
| THALLIUM | | 0.26 | B | A | 0.2 | B | A | 0.14 | U | |
| TUNGSTEN | | 0.37 | U | | 0.37 | U | | 0.37 | U | |
| VANADIUM | | 1.8 | J | P | 6.5 | J | P | 0.44 | U | |
| ZINC | | 25 | | | 460 | | | 57 | | |

| PROJ_NO: 04021 | NSAMPLE | GSP-MW5-043012 | | | GSP-MW6-043012 | | | MT-MW02S-043012 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-10808-1 | LAB_ID | 240-10808-2 | | | 240-10808-3 | | | 240-10808-4 | | |
| FRACTION: MISC | SAMP_DATE | 4/30/2012 | | | 4/30/2012 | | | 4/30/2012 | | |
| MEDIA: WATER | QC_TYPE | NM | | | NM | | | NM | | |
| | UNITS | UG/L | | | UG/L | | | UG/L | | |
| | PCT_SOLIDS | 0.0 | | | 0.0 | | | 0.0 | | |
| | DUP_OF | | | | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| PERCHLORATE | | 0.16 | J | P | 0.082 | U | | 0.082 | U | |

# APPENDIX B
# RESULTS AS REPORTED BY THE LABORATORY

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: GSP-MW5-043012 Lab Sample ID: 240-10808-2

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG ID.:

Matrix: Water Date Sampled: 04/30/2012 10:30

Reporting Basis: WET Date Received: 05/01/2012 09:30

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 2.0 | 2.0 | 0.13 | ug/L | U | | 1 | 6020 |
| 7440-38-2 | Arsenic | 3.4 | 5.0 | 0.40 | ug/L | J | | 1 | 6020 |
| 7440-39-3 | Barium | 21 | 5.0 | 0.19 | ug/L | | B | 1 | 6020 |
| 7440-41-7 | Beryllium | 1.3 | 1.0 | 0.20 | ug/L | | | 1 | 6020 |
| 7440-43-9 | Cadmium | 0.32 | 1.0 | 0.13 | ug/L | J | | 1 | 6020 |
| 7440-47-3 | Chromium | 2.2 | 2.0 | 0.71 | ug/L | | | 1 | 6020 |
| 7440-48-4 | Cobalt | 26 | 1.0 | 0.058 | ug/L | | | 1 | 6020 |
| 7440-50-8 | Copper | 4.9 | 2.0 | 0.29 | ug/L | | B | 1 | 6020 |
| 7439-92-1 | Lead | 0.39 | 1.0 | 0.18 | ug/L | J | | 1 | 6020 |
| 7439-98-7 | Molybdenum | 0.34 | 10 | 0.093 | ug/L | J | B | 1 | 6020 |
| 7440-02-0 | Nickel | 17 | 2.0 | 0.20 | ug/L | | ^ | 1 | 6020 |
| 7782-49-2 | Selenium | 2.2 | 5.0 | 0.57 | ug/L | J | | 1 | 6020 |
| 7440-22-4 | Silver | 1.0 | 1.0 | 0.080 | ug/L | U | | 1 | 6020 |
| 7440-28-0 | Thallium | 2.0 | 2.0 | 0.14 | ug/L | U | | 1 | 6020 |
| 7440-33-7 | Tungsten | 10 | 10 | 0.37 | ug/L | U | | 1 | 6020 |
| 7440-62-2 | Vanadium | 4.4 | 20 | 0.44 | ug/L | J | | 1 | 6020 |
| 7440-66-6 | Zinc | 28 | 20 | 2.3 | ug/L | | B | 1 | 6020 |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: GSP-MW5-043012 Lab Sample ID: 240-10808-2

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG ID.:

Matrix: Water Date Sampled: 04/30/2012 10:30

Reporting Basis: WET Date Received: 05/01/2012 09:30

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.20 | 0.20 | 0.12 | ug/L | U | | 1 | 7470A |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: GSP-MW6-043012 Lab Sample ID: 240-10808-3

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG ID.:

Matrix: Water Date Sampled: 04/30/2012 11:45

Reporting Basis: WET Date Received: 05/01/2012 09:30

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 0.92 | 2.0 | 0.13 | ug/L | J | | 1 | 6020 |
| 7440-38-2 | Arsenic | 4.0 | 5.0 | 0.40 | ug/L | J | | 1 | 6020 |
| 7440-39-3 | Barium | 42 | 5.0 | 0.19 | ug/L | | B | 1 | 6020 |
| 7440-41-7 | Beryllium | 1.0 | 1.0 | 0.20 | ug/L | U | | 1 | 6020 |
| 7440-43-9 | Cadmium | 1.0 | 1.0 | 0.13 | ug/L | U | | 1 | 6020 |
| 7440-47-3 | Chromium | 2.0 | 2.0 | 0.71 | ug/L | U | | 1 | 6020 |
| 7440-48-4 | Cobalt | 0.56 | 1.0 | 0.058 | ug/L | J | | 1 | 6020 |
| 7440-50-8 | Copper | 5.0 | 2.0 | 0.29 | ug/L | | B | 1 | 6020 |
| 7439-92-1 | Lead | 1.0 | 1.0 | 0.18 | ug/L | U | | 1 | 6020 |
| 7439-98-7 | Molybdenum | 2.7 | 10 | 0.093 | ug/L | J | B | 1 | 6020 |
| 7440-02-0 | Nickel | 1.3 | 2.0 | 0.20 | ug/L | J | ^ | 1 | 6020 |
| 7782-49-2 | Selenium | 14 | 5.0 | 0.57 | ug/L | | | 1 | 6020 |
| 7440-22-4 | Silver | 1.0 | 1.0 | 0.080 | ug/L | U | | 1 | 6020 |
| 7440-28-0 | Thallium | 0.25 | 2.0 | 0.14 | ug/L | J | B | 1 | 6020 |
| 7440-33-7 | Tungsten | 10 | 10 | 0.37 | ug/L | U | | 1 | 6020 |
| 7440-62-2 | Vanadium | 8.5 | 20 | 0.44 | ug/L | J | | 1 | 6020 |
| 7440-66-6 | Zinc | 530 | 20 | 2.3 | ug/L | | B | 1 | 6020 |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: GSP-MW6-043012 Lab Sample ID: 240-10808-3

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG ID.:

Matrix: Water Date Sampled: 04/30/2012 11:45

Reporting Basis: WET Date Received: 05/01/2012 09:30

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.20 | 0.20 | 0.12 | ug/L | U | | 1 | 7470A |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: MT-MW02S-043012 Lab Sample ID: 240-10808-4

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG ID.:

Matrix: Water Date Sampled: 04/30/2012 13:05

Reporting Basis: WET Date Received: 05/01/2012 09:30

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 2.0 | 2.0 | 0.13 | ug/L | U | | 1 | 6020 |
| 7440-38-2 | Arsenic | 2.3 | 5.0 | 0.40 | ug/L | J | | 1 | 6020 |
| 7440-39-3 | Barium | 120 | 5.0 | 0.19 | ug/L | | B | 1 | 6020 |
| 7440-41-7 | Beryllium | 0.74 | 1.0 | 0.20 | ug/L | J | | 1 | 6020 |
| 7440-43-9 | Cadmium | 1.0 | 1.0 | 0.13 | ug/L | U | | 1 | 6020 |
| 7440-47-3 | Chromium | 2.0 | 2.0 | 0.71 | ug/L | U | | 1 | 6020 |
| 7440-48-4 | Cobalt | 30 | 1.0 | 0.058 | ug/L | | | 1 | 6020 |
| 7440-50-8 | Copper | 1.4 | 2.0 | 0.29 | ug/L | J | B | 1 | 6020 |
| 7439-92-1 | Lead | 1.3 | 1.0 | 0.18 | ug/L | | | 1 | 6020 |
| 7439-98-7 | Molybdenum | 10 | 10 | 0.093 | ug/L | U | | 1 | 6020 |
| 7440-02-0 | Nickel | 48 | 2.0 | 0.20 | ug/L | | ^ | 1 | 6020 |
| 7782-49-2 | Selenium | 5.0 | 5.0 | 0.57 | ug/L | U | | 1 | 6020 |
| 7440-22-4 | Silver | 1.0 | 1.0 | 0.080 | ug/L | U | | 1 | 6020 |
| 7440-28-0 | Thallium | 0.15 | 2.0 | 0.14 | ug/L | J | B | 1 | 6020 |
| 7440-33-7 | Tungsten | 10 | 10 | 0.37 | ug/L | U | | 1 | 6020 |
| 7440-62-2 | Vanadium | 20 | 20 | 0.44 | ug/L | U | | 1 | 6020 |
| 7440-66-6 | Zinc | 100 | 20 | 2.3 | ug/L | | B | 1 | 6020 |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MT-MW02S-043012 Lab Sample ID: 240-10808-4

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG ID.:

Matrix: Water Date Sampled: 04/30/2012 13:05

Reporting Basis: WET Date Received: 05/01/2012 09:30

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.20 | 0.20 | 0.12 | ug/L | U | | 1 | 7470A |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: GSP-MW5-043012 Lab Sample ID: 240-10808-2

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG ID.:

Matrix: Water Date Sampled: 04/30/2012 10:30

Reporting Basis: WET Date Received: 05/01/2012 09:30

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 2.0 | 2.0 | 0.13 | ug/L | U | | 1 | 6020 |
| 7440-38-2 | Arsenic | 3.5 | 5.0 | 0.40 | ug/L | J | | 1 | 6020 |
| 7440-39-3 | Barium | 21 | 5.0 | 0.19 | ug/L | | B | 1 | 6020 |
| 7440-41-7 | Beryllium | 1.4 | 1.0 | 0.20 | ug/L | | | 1 | 6020 |
| 7440-43-9 | Cadmium | 0.31 | 1.0 | 0.13 | ug/L | J | | 1 | 6020 |
| 7440-47-3 | Chromium | 0.78 | 2.0 | 0.71 | ug/L | J | | 1 | 6020 |
| 7440-48-4 | Cobalt | 29 | 1.0 | 0.058 | ug/L | | | 1 | 6020 |
| 7440-50-8 | Copper | 0.34 | 2.0 | 0.29 | ug/L | J | B | 1 | 6020 |
| 7439-92-1 | Lead | 1.0 | 1.0 | 0.18 | ug/L | U | | 1 | 6020 |
| 7439-98-7 | Molybdenum | 0.35 | 10 | 0.093 | ug/L | J | B | 1 | 6020 |
| 7440-02-0 | Nickel | 19 | 2.0 | 0.20 | ug/L | | ^ | 1 | 6020 |
| 7782-49-2 | Selenium | 2.7 | 5.0 | 0.57 | ug/L | J | | 1 | 6020 |
| 7440-22-4 | Silver | 1.0 | 1.0 | 0.080 | ug/L | U | | 1 | 6020 |
| 7440-28-0 | Thallium | 0.26 | 2.0 | 0.14 | ug/L | J | B | 1 | 6020 |
| 7440-62-2 | Vanadium | 1.8 | 20 | 0.44 | ug/L | J | | 1 | 6020 |
| 7440-66-6 | Zinc | 25 | 20 | 2.3 | ug/L | | B | 1 | 6020 |
| 7440-33-7 | Tungsten | 10 | 10 | 0.37 | ug/L | U | | 1 | 6020 |
| 7439-97-6 | Mercury | 0.20 | 0.20 | 0.12 | ug/L | U | | 1 | 7470A |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: GSP-MW6-043012 Lab Sample ID: 240-10808-3

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG ID.:

Matrix: Water Date Sampled: 04/30/2012 11:45

Reporting Basis: WET Date Received: 05/01/2012 09:30

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 0.76 | 2.0 | 0.13 | ug/L | J | | 1 | 6020 |
| 7440-38-2 | Arsenic | 2.1 | 5.0 | 0.40 | ug/L | J | | 1 | 6020 |
| 7440-39-3 | Barium | 40 | 5.0 | 0.19 | ug/L | | B | 1 | 6020 |
| 7440-41-7 | Beryllium | 1.0 | 1.0 | 0.20 | ug/L | U | | 1 | 6020 |
| 7440-43-9 | Cadmium | 1.0 | 1.0 | 0.13 | ug/L | U | | 1 | 6020 |
| 7440-47-3 | Chromium | 2.0 | 2.0 | 0.71 | ug/L | U | | 1 | 6020 |
| 7440-48-4 | Cobalt | 0.45 | 1.0 | 0.058 | ug/L | J | | 1 | 6020 |
| 7440-50-8 | Copper | 4.1 | 2.0 | 0.29 | ug/L | | B | 1 | 6020 |
| 7439-92-1 | Lead | 1.0 | 1.0 | 0.18 | ug/L | U | | 1 | 6020 |
| 7439-98-7 | Molybdenum | 2.2 | 10 | 0.093 | ug/L | J | B | 1 | 6020 |
| 7440-02-0 | Nickel | 1.2 | 2.0 | 0.20 | ug/L | J | ^ | 1 | 6020 |
| 7782-49-2 | Selenium | 13 | 5.0 | 0.57 | ug/L | | | 1 | 6020 |
| 7440-22-4 | Silver | 1.0 | 1.0 | 0.080 | ug/L | U | | 1 | 6020 |
| 7440-28-0 | Thallium | 0.20 | 2.0 | 0.14 | ug/L | J | B | 1 | 6020 |
| 7440-62-2 | Vanadium | 6.5 | 20 | 0.44 | ug/L | J | | 1 | 6020 |
| 7440-66-6 | Zinc | 460 | 20 | 2.3 | ug/L | | B | 1 | 6020 |
| 7440-33-7 | Tungsten | 10 | 10 | 0.37 | ug/L | U | | 1 | 6020 |
| 7439-97-6 | Mercury | 0.20 | 0.20 | 0.12 | ug/L | U | | 1 | 7470A |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MT-MW02S-043012 Lab Sample ID: 240-10808-4

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG ID.:

Matrix: Water Date Sampled: 04/30/2012 13:05

Reporting Basis: WET Date Received: 05/01/2012 09:30

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 2.0 | 2.0 | 0.13 | ug/L | U | | 1 | 6020 |
| 7440-38-2 | Arsenic | 1.7 | 5.0 | 0.40 | ug/L | J | | 1 | 6020 |
| 7440-39-3 | Barium | 110 | 5.0 | 0.19 | ug/L | | B | 1 | 6020 |
| 7440-41-7 | Beryllium | 0.68 | 1.0 | 0.20 | ug/L | J | | 1 | 6020 |
| 7440-43-9 | Cadmium | 1.0 | 1.0 | 0.13 | ug/L | U | | 1 | 6020 |
| 7440-47-3 | Chromium | 2.0 | 2.0 | 0.71 | ug/L | U | | 1 | 6020 |
| 7440-48-4 | Cobalt | 23 | 1.0 | 0.058 | ug/L | | | 1 | 6020 |
| 7440-50-8 | Copper | 0.62 | 2.0 | 0.29 | ug/L | J | B | 1 | 6020 |
| 7439-92-1 | Lead | 1.0 | 1.0 | 0.18 | ug/L | | | 1 | 6020 |
| 7439-98-7 | Molybdenum | 10 | 10 | 0.093 | ug/L | U | | 1 | 6020 |
| 7440-02-0 | Nickel | 39 | 2.0 | 0.20 | ug/L | | ^ | 1 | 6020 |
| 7782-49-2 | Selenium | 5.0 | 5.0 | 0.57 | ug/L | U | | 1 | 6020 |
| 7440-22-4 | Silver | 1.0 | 1.0 | 0.080 | ug/L | U | | 1 | 6020 |
| 7440-28-0 | Thallium | 2.0 | 2.0 | 0.14 | ug/L | U | | 1 | 6020 |
| 7440-62-2 | Vanadium | 20 | 20 | 0.44 | ug/L | U | | 1 | 6020 |
| 7440-66-6 | Zinc | 57 | 20 | 2.3 | ug/L | | B | 1 | 6020 |
| 7440-33-7 | Tungsten | 10 | 10 | 0.37 | ug/L | U | | 1 | 6020 |
| 7439-97-6 | Mercury | 0.20 | 0.20 | 0.12 | ug/L | U | | 1 | 7470A |

TestAmerica Canton

Client Sample ID: GSP-MW5-043012

Dissolved HPLC - Mass. Spec.

| | | | | | |
|---|---|---|---|---|---|
| Lot-Sample #...: | G2E030413-001 | Work Order #...: | MTC2Q1AA | Matrix.....: | WATER |
| Date Sampled...: | 04/30/12 | Date Received..: | 05/02/12 | | |
| Prep Date.....: | 05/07/12 | Analysis Date..: | 05/15/12 | | |
| Prep Batch #...: | 2128058 | | | | |
| Dilution Factor: | 1 | Method.....: | SW846 6850 | | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---|---|---|---|---|
| Perchlorate | 0.16 J | 1.0 | ug/L | 0.082 |

NOTE(S):

J Estimated result. Result is less than RL.

TestAmerica Canton

Client Sample ID: GSP-MW6-043012

Dissolved HPLC - Mass. Spec.

| | | | | |
|---|---|---|---|---|
| Lot-Sample #...: G2E030413-002 | Work Order #...: MTC2R1AA | | Matrix.....: WATER | |
| Date Sampled...: 04/30/12 | Date Received..: 05/02/12 | | | |
| Prep Date.....: 05/07/12 | Analysis Date..: 05/15/12 | | | |
| Prep Batch #...: 2128058 | | | | |
| Dilution Factor: 1 | Method.....: SW846 6850 | | | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---|---|---|---|---|
| Perchlorate | ND | 1.0 | ug/L | 0.082 |

TestAmerica Canton

Client Sample ID: MT-MW02S-043012

Dissolved HPLC - Mass. Spec.

| | | | | | |
|---|---|---|---|---|---|
| **Lot-Sample #...:** | G2E030413-003 | **Work Order #...:** | MTC2T1AA | **Matrix.....:** | WATER |
| **Date Sampled...:** | 04/30/12 | **Date Received..:** | 05/02/12 | | |
| **Prep Date.....:** | 05/07/12 | **Analysis Date..:** | 05/15/12 | | |
| **Prep Batch #...:** | 2128058 | | | | |
| **Dilution Factor:** | 1 | **Method.....:** | SW846 6850 | | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---|---|---|---|---|
| Perchlorate | ND | 1.0 | ug/L | 0.082 |

# APPENDIX C
# SUPPORT DOCUMENTATION

## CASE NARRATIVE

## Client: Tetra Tech, Inc formerly Tetra Tech NUS

## Project: MSA Groundwater Sampling

## Report Number: 240-10808-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

The 6850 Perchlorate analysis was performed at the TestAmerica West Sacramento Laboratory.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

**RECEIPT**

The samples were received on 05/01/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.9 and 3.2 C.

**VOLATILE ORGANIC COMPOUNDS (GC MS)**

Samples TB-043012 (240-10808-1), GSP-MW5-043012 (240-10808-2), GSP-MW6-043012 (240-10808-3) and MT-MW02S-043012 (240-10808-4) were analyzed for volatile organic compounds (GC MS) in accordance with EPA SW-846 Method 8260C. The samples were analyzed on 05/10/2012.

1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene and Hexachlorobutadiene were detected in method blank MB 240-43549/5 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

2-Butanone and 2-Chloroethyl vinyl ether failed the recovery criteria low for the MS/MSD of sample 240-10837-5 in batch 240-43549. Refer to the QC report for details.

Sample MT-MW02S-043012 (240-10808-4)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the VOCs analyses. All other quality control parameters were within the acceptance limits.

**SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)**

Samples GSP-MW5-043012 (240-10808-2), GSP-MW6-043012 (240-10808-3) and MT-MW02S-043012 (240-10808-4) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 05/05/2012 and analyzed on 05/08/2012.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out and no corrective action is required.

1,4-Dioxane failed the recovery criteria high for the MSD of sample 240-10837-5 in batch 240-43126.

1,4-Dioxane failed the recovery criteria low for the MSD of sample 240-10842-8 in batch 240-43665. 1,4-Dioxane exceeded the rpd limit.

Refer to the QC report for details.

No other difficulties were encountered during the SVOCs analyses. All other quality control parameters were within the acceptance limits.

**GASOLINE RANGE ORGANICS (GRO)**
Samples GSP-MW5-043012 (240-10808-2), GSP-MW6-043012 (240-10808-3) and MT-MW02S-043012 (240-10808-4) were analyzed for gasoline range organics (GRO) in accordance with EPA SW-846 Method 8015B - GRO. The samples were analyzed on 05/07/2012.

Total Petroleum Hydrocarbons (C6-C10) was detected in method blank MB 240-42995/6 at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

No other difficulties were encountered during the GRO analyses. All other quality control parameters were within the acceptance limits.

**DIESEL RANGE ORGANICS (DRO)**
Samples GSP-MW5-043012 (240-10808-2), GSP-MW6-043012 (240-10808-3) and MT-MW02S-043012 (240-10808-4) were analyzed for diesel range organics (DRO) in accordance with EPA SW-846 Method 8015B - DRO. The samples were prepared on 05/04/2012 and analyzed on 05/07/2012.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required.

No difficulties were encountered during the DRO analyses. All quality control parameters were within the acceptance limits.

**DISSOLVED METALS (ICPMS)**
Samples GSP-MW5-043012 (240-10808-2), GSP-MW6-043012 (240-10808-3) and MT-MW02S-043012 (240-10808-4) were analyzed for dissolved metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 05/02/2012 and analyzed on 05/03/2012.

No difficulties were encountered during the metals analyses. All quality control parameters were within the acceptance limits.

**TOTAL RECOVERABLE METALS (ICPMS)**
Samples GSP-MW5-043012 (240-10808-2), GSP-MW6-043012 (240-10808-3) and MT-MW02S-043012 (240-10808-4) were analyzed for total recoverable metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 05/02/2012 and analyzed on 05/03/2012.

Several analytes were detected in method blank MB 240-42485/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

No other difficulties were encountered during the metals analyses. All other quality control parameters were within the acceptance limits.

**DISSOLVED MERCURY (CVAA)**
Samples GSP-MW5-043012 (240-10808-2), GSP-MW6-043012 (240-10808-3) and MT-MW02S-043012 (240-10808-4) were analyzed for dissolved mercury (CVAA) in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 05/03/2012 and 05/07/2012 and analyzed on 05/04/2012 and 05/08/2012.

No difficulties were encountered during the mercury analyses. All quality control parameters were within the acceptance limits.

**TOTAL MERCURY**
Samples GSP-MW5-043012 (240-10808-2), GSP-MW6-043012 (240-10808-3) and MT-MW02S-043012 (240-10808-4) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 05/03/2012 and 05/07/2012 and analyzed on 05/04/2012 and 05/08/2012.

No difficulties were encountered during the mercury analyses. All quality control parameters were within the acceptance limits.

# Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

| Client Contact | | | | |
|---|---|---|---|---|
| Company Name: Tetra Tech | Client Project Manager: Tony Aparicio | Site Contact: Stu Cameron | Lab Contact: | COC No: 006079 |
| Address: 20251 Century Blvd Ste 200 | Telephone: (301)528-5552 | Telephone: (703)341-8389 | Telephone: | 1 of 1 COCs |
| City/State/Zip: Germantown MD, 20874 | Email: Tony.Aparicio@tetratech.com | Analysis Turnaround Time (in BUS days) | Analyses | For lab use only: Walk-in client: ☐ Lab pickup: ☐ Lab sampling: ☐ |
| Phone: (301) 528-5552 | | TAT if different from below _____ ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day | | Job/SDG No.: |
| Project Name: MSA GW Sampling | Method of Shipment/Carrier: | | | |
| Project Number: 112I CO 4021 | Shipping/Tracking No: | | | |
| PO# | | | | |

| Sample Identification | Sample Date | Sample Time | Matrix: Air | Aqueous | Sediment | Solid | Other: | Containers & Preservatives: H2SO4 | HNO3 | HCl | NaOH | ZnAc/NaOH | Unpres | Other: | Filtered Sample (Y/N) | Composite (C) / Grab (G) | VOCs | Total Metals | Dissolved Metals | Perchlorate | 1,4-Dioxane | TPH-GRO | TPH-DRO | Sample Specific Notes / Special Instructions: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TB-043012 | — | — | | X | | | | | | 2 | | | | | | | X | | | | | | | |
| GSP-MW5-043012 | 4/30/12 | 1030 | | X | | | | | 2 | 5 | | | 5 | | | G | X | X | X | X | X | X | X | |
| GSP-MW6-043012 | ↓ | 1145 | | X | | | | | 2 | 5 | | | 5 | | | G | X | X | X | X | X | X | X | |
| MT-MW02S-043012 | ↓ | 1305 | | X | | | | | 2 | 5 | | | 5 | | | G | X | X | X | X | X | X | X | |

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

| | | | | | |
|---|---|---|---|---|---|
| Relinquished by: Stu Cameron | Company: Tetra Tech | Date/Time: 4-30-12/1445 | Received by: Paul Gaylord | Company: TestAmerica | Date/Time: 4/30/12 1446 |
| Relinquished by: | Company: TestAmerica | Date/Time: 4-30-2012/1530 | Received by: | Company: | Date/Time: |
| Relinquished by: | Company: | Date/Time: | Received in Laboratory by: | Company: | Date/Time: 5-1-12 930 |

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05/29/2012

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# HOLDTIME

**SDG** 240-10808-1

| SORT | UNITS | NSAMPLE | LAB_ID | QC_TYPE | SAMP_DATE | EXTR_DATE | ANAL_DATE | SMP_EXTR | EXTR_ANL | SMP_ANL |
|---|---|---|---|---|---|---|---|---|---|---|
| HG | UG/L | GSP-MW5-043012 | 240-10808-2 | NM | 4/30/2012 | 5/3/2012 | 5/4/2012 | 3 | 1 | 4 |
| HG | UG/L | GSP-MW6-043012 | 240-10808-3 | NM | 4/30/2012 | 5/7/2012 | 5/8/2012 | 7 | 1 | 8 |
| HG | UG/L | MT-MW02S-043012 | 240-10808-4 | NM | 4/30/2012 | 5/7/2012 | 5/8/2012 | 7 | 1 | 8 |
| M | UG/L | MT-MW02S-043012 | 240-10808-4 | NM | 4/30/2012 | 5/2/2012 | 5/3/2012 | 2 | 1 | 3 |
| M | UG/L | GSP-MW5-043012 | 240-10808-2 | NM | 4/30/2012 | 5/2/2012 | 5/3/2012 | 2 | 1 | 3 |
| M | UG/L | GSP-MW6-043012 | 240-10808-3 | NM | 4/30/2012 | 5/2/2012 | 5/3/2012 | 2 | 1 | 3 |
| HGF | UG/L | MT-MW02S-043012 | 240-10808-4 | NM | 4/30/2012 | 5/7/2012 | 5/8/2012 | 7 | 1 | 8 |
| HGF | UG/L | GSP-MW5-043012 | 240-10808-2 | NM | 4/30/2012 | 5/3/2012 | 5/4/2012 | 3 | 1 | 4 |
| HGF | UG/L | GSP-MW6-043012 | 240-10808-3 | NM | 4/30/2012 | 5/7/2012 | 5/8/2012 | 7 | 1 | 8 |
| MF | UG/L | GSP-MW5-043012 | 240-10808-2 | NM | 4/30/2012 | 5/2/2012 | 5/3/2012 | 2 | 1 | 3 |
| MF | UG/L | MT-MW02S-043012 | 240-10808-4 | NM | 4/30/2012 | 5/2/2012 | 5/3/2012 | 2 | 1 | 3 |
| MF | UG/L | GSP-MW6-043012 | 240-10808-3 | NM | 4/30/2012 | 5/2/2012 | 5/3/2012 | 2 | 1 | 3 |
| PCL | UG/L | MT-MW02S-043012 | 240-10808-4 | NM | 4/30/2012 | 5/7/2012 | 5/15/2012 | 7 | 8 | 15 |
| PCL | UG/L | GSP-MW6-043012 | 240-10808-3 | NM | 4/30/2012 | 5/7/2012 | 5/15/2012 | 7 | 8 | 15 |
| PCL | UG/L | GSP-MW5-043012 | 240-10808-2 | NM | 4/30/2012 | 5/7/2012 | 5/15/2012 | 7 | 8 | 15 |

## SAMPLE SUMMARY

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-10808-1

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|---|---|---|---|---|
| 240-10808-1TB | TB-043012 | Water | 04/30/2012 0000 | 05/01/2012 0930 |
| 240-10808-2 | GSP-MW5-043012 | Water | 04/30/2012 1030 | 05/01/2012 0930 |
| 240-10808-3 | GSP-MW6-043012 | Water | 04/30/2012 1145 | 05/01/2012 0930 |
| 240-10808-4 | MT-MW02S-043012 | Water | 04/30/2012 1305 | 05/01/2012 0930 |

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

ICV Source: MTMSICVW_00014 Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW_00039

| Analyte | ICV 240-42666/5 05/03/2012 06:17 | | | | CCV 240-42666/22 05/03/2012 07:54 | | | | CCV 240-42666/34 05/03/2012 09:03 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Antimony** | 82.2 | | 80.0 | 103 | 98.3 | | 100 | 98 | 96.3 | | 100 | 96 |
| **Arsenic** | 80.9 | | 80.0 | 101 | 98.9 | | 100 | 99 | 98.8 | | 100 | 99 |
| **Barium** | 80.9 | | 80.0 | 101 | 97.7 | | 100 | 98 | 97.5 | | 100 | 98 |
| **Beryllium** | 81.5 | | 80.0 | 102 | 97.5 | | 100 | 97 | 97.4 | | 100 | 97 |
| **Cadmium** | 80.4 | | 80.0 | 101 | 99.6 | | 100 | 100 | 98.7 | | 100 | 99 |
| **Chromium** | 79.7 | | 80.0 | 100 | 96.9 | | 100 | 97 | 98.0 | | 100 | 98 |
| **Cobalt** | 81.2 | | 80.0 | 102 | 99.0 | | 100 | 99 | 100 | | 100 | 100 |
| **Copper** | 83.2 | | 80.0 | 104 | 101 | | 100 | 101 | 101 | | 100 | 101 |
| **Lead** | 82.4 | | 80.0 | 103 | 99.3 | | 100 | 99 | 96.7 | | 100 | 97 |
| **Molybdenum** | 83.6 | | 80.0 | 105 | 103 | | 100 | 103 | 101 | | 100 | 101 |
| **Nickel** | 83.1 | | 80.0 | 104 | 101 | | 100 | 101 | 102 | | 100 | 102 |
| **Selenium** | 80.7 | | 80.0 | 101 | 101 | | 100 | 101 | 99.9 | | 100 | 100 |
| **Silver** | 82.7 | | 80.0 | 103 | 101 | | 100 | 101 | 98.9 | | 100 | 99 |
| **Thallium** | 81.3 | | 80.0 | 102 | 100 | | 100 | 100 | 100 | | 100 | 100 |
| **Tungsten** | 80.4 | | 80.0 | 101 | 98.4 | | 100 | 98 | 97.0 | | 100 | 97 |
| **Vanadium** | 79.7 | | 80.0 | 100 | 96.7 | | 100 | 97 | 96.8 | | 100 | 97 |
| **Zinc** | 81.5 | | 80.0 | 102 | 99.8 | | 100 | 100 | 99.5 | | 100 | 100 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton  Job No.: 240-10808-1

SDG No.:

ICV Source: MTMSICVW_00014  Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW_00039

| Analyte | CCV 240-42666/46 05/03/2012 10:08 | | | | CCV 240-42666/53 05/03/2012 10:45 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Antimony** | 96.7 | | 100 | 97 | 95.8 | | 100 | 96 | | | | |
| **Arsenic** | 99.6 | | 100 | 100 | 99.1 | | 100 | 99 | | | | |
| **Barium** | 97.3 | | 100 | 97 | 97.5 | | 100 | 97 | | | | |
| **Beryllium** | 98.3 | | 100 | 98 | 96.9 | | 100 | 97 | | | | |
| **Cadmium** | 97.6 | | 100 | 98 | 96.9 | | 100 | 97 | | | | |
| **Chromium** | 98.7 | | 100 | 99 | 96.9 | | 100 | 97 | | | | |
| **Cobalt** | 99.6 | | 100 | 100 | 100 | | 100 | 100 | | | | |
| **Copper** | 102 | | 100 | 102 | 101 | | 100 | 101 | | | | |
| **Lead** | 94.3 | | 100 | 94 | 94.2 | | 100 | 94 | | | | |
| **Molybdenum** | 101 | | 100 | 101 | 99.5 | | 100 | 100 | | | | |
| **Nickel** | 101 | | 100 | 101 | 101 | | 100 | 101 | | | | |
| **Selenium** | 101 | | 100 | 101 | 101 | | 100 | 101 | | | | |
| **Silver** | 99.1 | | 100 | 99 | 98.9 | | 100 | 99 | | | | |
| **Thallium** | 101 | | 100 | 101 | 101 | | 100 | 101 | | | | |
| **Tungsten** | 96.5 | | 100 | 96 | 96.7 | | 100 | 97 | | | | |
| **Vanadium** | 98.7 | | 100 | 99 | 97.5 | | 100 | 98 | | | | |
| **Zinc** | 101 | | 100 | 101 | 101 | | 100 | 101 | | | | |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

ICV Source: MTHGICVW_00289 Concentration Units: ug/L

CCV Source: MTHGCALW_00189

| Analyte | ICV 240-42622/7-A 05/04/2012 10:43 | | | | CCVL 240-42622/10-A 05/04/2012 10:53 | | | | CCV 240-42622/12-A 05/04/2012 12:07 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Mercury** | 2.29 | | 2.50 | 92 | 5.09 | | 5.00 | 102 | 5.15 | | 5.00 | 103 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

ICV Source: MTHGICVW_00289 Concentration Units: ug/L

CCV Source: MTHGCALW_00189

| Analyte | CCV 240-42622/12-A 05/04/2012 12:34 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Mercury** | 5.12 | | 5.00 | 102 | | | | | | | | |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton  Job No.: 240-10808-1

SDG No.:

ICV Source: MTHGICVW_00292  Concentration Units: ug/L

CCV Source: MTHGCALW_00190

| Analyte | ICV 240-43145/7-A 05/08/2012 14:43 | | | | CCVL 240-43145/10-A 05/08/2012 14:49 | | | | CCV 240-43145/12-A 05/08/2012 15:39 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Mercury** | 2.43 | | 2.50 | 97 | 5.20 | | 5.00 | 104 | 5.32 | | 5.00 | 106 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

ICV Source: MTHGICVW_00292 Concentration Units: ug/L

CCV Source: MTHGCALW_00190

| Analyte | CCV 240-43145/12-A 05/08/2012 16:04 | | | | CCV 240-43145/12-A 05/08/2012 16:29 | | | | CCV 240-43145/12-A 05/08/2012 16:55 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Mercury** | 5.31 | | 5.00 | 106 | 5.11 | | 5.00 | 102 | 5.12 | | 5.00 | 102 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Method: 6020 Instrument ID: I8

Lab Sample ID: CRI 240-42666/8 Concentration Units: ug/L

CRQL Check Standard Source: MTMSCRIW_00016

| Analyte | CRQL Check Standard | | | | |
|---|---|---|---|---|---|
| | True | Found | Qualifiers | %R(1) | Limits |
| Antimony | 2.00 | 1.96 | J | 98 | 50-150 |
| Arsenic | 2.00 | 2.19 | J | 110 | 50-150 |
| Barium | 1.00 | 1.33 | J | 133 | 50-150 |
| Beryllium | 1.00 | 1.08 | | 108 | 50-150 |
| Cadmium | 0.500 | 0.658 | J | 132 | 50-150 |
| Chromium | 2.00 | 2.08 | | 104 | 50-150 |
| Cobalt | 1.00 | 1.20 | | 120 | 50-150 |
| Copper | 2.00 | 2.72 | | 136 | 50-150 |
| Lead | 1.00 | 1.22 | | 122 | 50-150 |
| Molybdenum | 10.0 | 9.90 | J | 99 | 50-150 |
| Nickel | 2.00 | 3.13 | ^ | 156 | 50-150 |
| Selenium | 2.00 | 2.16 | J | 108 | 50-150 |
| Silver | 0.500 | 0.603 | J | 121 | 50-150 |
| Thallium | 1.00 | 1.20 | J | 120 | 50-150 |
| Vanadium | 5.00 | 4.78 | J | 96 | 50-150 |
| Tungsten | 10.0 | 9.47 | J | 95 | 50-150 |
| Zinc | 10.0 | 10.6 | J | 106 | 50-150 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Method: 7470A Instrument ID: H4

Lab Sample ID: CRA 240-42622/9-A Concentration Units: ug/L

CRQL Check Standard Source: MTHGCALW_00189

| Analyte | CRQL Check Standard | | | | |
|---|---|---|---|---|---|
| | True | Found | Qualifiers | %R(1) | Limits |
| Mercury | 0.200 | 0.186 | J | 93 | 50-150 |

Lab Sample ID: CRA 240-43145/9-A Concentration Units: ug/L

CRQL Check Standard Source: MTHGCALW_00190

| Analyte | CRQL Check Standard | | | | |
|---|---|---|---|---|---|
| | True | Found | Qualifiers | %R(1) | Limits |
| Mercury | 0.200 | 0.224 | | 112 | 50-150 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Concentration Units: ug/L

| Analyte | RL | ICB 240-42666/6 05/03/2012 06:22 | | CCB 240-42666/23 05/03/2012 08:00 | | CCB 240-42666/35 05/03/2012 09:08 | | CCB 240-42666/47 05/03/2012 10:13 | |
|---|---|---|---|---|---|---|---|---|---|
| | | Found | C | Found | C | Found | C | Found | C |
| **Antimony** | 2.0 | 0.149 | J | 0.322 | J | 0.131 | J | 0.138 | J |
| **Arsenic** | 5.0 | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| **Barium** | 5.0 | 5.0 | U | 0.239 | J | 5.0 | U | 5.0 | U |
| **Beryllium** | 1.0 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| **Cadmium** | 1.0 | 1.0 | U | 0.172 | J | 1.0 | U | 1.0 | U |
| **Chromium** | 2.0 | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U |
| **Cobalt** | 1.0 | 0.0800 | J | 0.169 | J | 0.0610 | J | 1.0 | U |
| **Copper** | 2.0 | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U |
| **Lead** | 1.0 | 1.0 | U | 0.191 | J | 1.0 | U | 1.0 | U |
| **Molybdenum** | 10 | 0.858 | J | 0.854 | J | 0.632 | J | 0.678 | J |
| **Nickel** | 2.0 | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U |
| **Selenium** | 5.0 | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| **Silver** | 1.0 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| **Thallium** | 2.0 | 0.496 | J | 0.686 | J | 0.554 | J | 0.489 | J |
| **Tungsten** | 10 | 1.07 | J | 0.956 | J | 0.868 | J | 0.833 | J |
| **Vanadium** | 20 | 20 | U | 20 | U | 20 | U | 20 | U |
| **Zinc** | 20 | 20 | U | 20 | U | 20 | U | 20 | U |

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Concentration Units: ug/L

| Analyte | RL | CCB 240-42666/54 05/03/2012 10:51 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Found | C | Found | C | Found | C | Found | C |
| **Antimony** | 2.0 | 0.133 | J | | | | | | |
| **Arsenic** | 5.0 | 5.0 | U | | | | | | |
| **Barium** | 5.0 | 5.0 | U | | | | | | |
| **Beryllium** | 1.0 | 1.0 | U | | | | | | |
| **Cadmium** | 1.0 | 1.0 | U | | | | | | |
| **Chromium** | 2.0 | 2.0 | U | | | | | | |
| **Cobalt** | 1.0 | 1.0 | U | | | | | | |
| **Copper** | 2.0 | 2.0 | U | | | | | | |
| **Lead** | 1.0 | 1.0 | U | | | | | | |
| **Molybdenum** | 10 | 0.662 | J | | | | | | |
| **Nickel** | 2.0 | 2.0 | U | | | | | | |
| **Selenium** | 5.0 | 5.0 | U | | | | | | |
| **Silver** | 1.0 | 1.0 | U | | | | | | |
| **Thallium** | 2.0 | 0.476 | J | | | | | | |
| **Tungsten** | 10 | 0.810 | J | | | | | | |
| **Vanadium** | 20 | 20 | U | | | | | | |
| **Zinc** | 20 | 20 | U | | | | | | |

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Concentration Units: ug/L

| Analyte | RL | ICB 240-42622/8-A 05/04/2012 10:45 | | CCB 240-42622/11-A 05/04/2012 12:09 | | CCB 240-42622/11-A 05/04/2012 12:35 | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Found | C | Found | C | Found | C | Found | C |
| **Mercury** | 0.20 | 0.20 | U | 0.20 | U | 0.20 | U | | |

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Concentration Units: ug/L

| Analyte | RL | ICB 240-43145/8-A 05/08/2012 14:45 | | CCB 240-43145/11-A 05/08/2012 15:40 | | CCB 240-43145/11-A 05/08/2012 16:06 | | CCB 240-43145/11-A 05/08/2012 16:31 | |
|---|---|---|---|---|---|---|---|---|---|
| | | Found | C | Found | C | Found | C | Found | C |
| **Mercury** | 0.20 | 0.20 | U | 0.20 | U | 0.20 | U | 0.20 | U |

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Concentration Units: ug/L

| Analyte | RL | CCB 240-43145/11-A 05/08/2012 16:57 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Found | C | Found | C | Found | C | Found | C |
| **Mercury** | 0.20 | 0.20 | U | | | | | | |

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 240-42485/1-A

Instrument Code: I8 Batch No.: 42666

| CAS No. | Analyte | Concentration | C | Q | Method |
|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 2.0 | U | | 6020 |
| 7440-38-2 | Arsenic | 5.0 | U | | 6020 |
| 7440-39-3 | Barium | 0.541 | J | | 6020 |
| 7440-41-7 | Beryllium | 1.0 | U | | 6020 |
| 7440-43-9 | Cadmium | 1.0 | U | | 6020 |
| 7440-47-3 | Chromium | 2.0 | U | | 6020 |
| 7440-48-4 | Cobalt | 1.0 | U | | 6020 |
| 7440-50-8 | Copper | 0.388 | J | | 6020 |
| 7439-92-1 | Lead | 1.0 | U | | 6020 |
| 7439-98-7 | Molybdenum | 0.312 | J | | 6020 |
| 7440-02-0 | Nickel | 2.0 | U | ^ | 6020 |
| 7782-49-2 | Selenium | 5.0 | U | | 6020 |
| 7440-22-4 | Silver | 1.0 | U | | 6020 |
| 7440-28-0 | Thallium | 0.332 | J | | 6020 |
| 7440-62-2 | Vanadium | 20 | U | | 6020 |
| 7440-33-7 | Tungsten | 10 | U | | 6020 |
| 7440-66-6 | Zinc | 4.57 | J | | 6020 |

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Canton  Job No.: 240-10808-1

SDG No.:

Concentration Units: ug/L  Lab Sample ID: MB 240-42671/1-A

Instrument Code: H4  Batch No.: 42975

| CAS No. | Analyte | Concentration | C | Q | Method |
|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.20 | U | | 7470A |

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 240-43054/1-A

Instrument Code: H4 Batch No.: 43362

| CAS No. | Analyte | Concentration | C | Q | Method |
|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.20 | U | | 7470A |

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton  Job No.: 240-10808-1

SDG No.:

Lab Sample ID: ICSA 240-42666/9  Instrument ID: I8

Lab File ID: I8050312A.csv  ICS Source: MTMSICSAW_00014

Concentration Units: ug/L

| Analyte | True Solution A | Found Solution A | Percent Recovery |
|---|---|---|---|
| **Antimony** | | **0.163** | |
| **Arsenic** | | **0.572** | |
| **Barium** | | **0.131** | |
| **Beryllium** | | **0.0050** | |
| **Cadmium** | | **-0.414** | |
| **Chromium** | | **0.479** | |
| **Cobalt** | | **0.118** | |
| **Copper** | | **0.523** | |
| **Lead** | | **0.0560** | |
| **Molybdenum** | **1000** | **1018** | **102** |
| **Nickel** | | **0.562** | |
| **Selenium** | | **0.0360** | |
| **Silver** | | **0.0380** | |
| **Thallium** | | **0.111** | |
| **Tungsten** | | **0.347** | |
| **Vanadium** | | **0.0780** | |
| **Zinc** | | **1.08** | |
| *Aluminum* | *50000* | *48650* | *97* |
| *Boron* | | *0.397* | |
| *Calcium* | *50000* | *50780* | *102* |
| *Iron* | *50000* | *50610* | *101* |
| *Magnesium* | *50000* | *50890* | *102* |
| *Manganese* | | *0.237* | |
| *Potassium* | *50000* | *50870* | *102* |
| *Sodium* | *50000* | *51340* | *103* |
| *Strontium* | | *0.331* | |
| *Tin* | | *0.0580* | |
| *Titanium* | *1000* | *1045* | *105* |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton  Job No.: 240-10808-1

SDG No.:

Lab Sample ID: ICSAB 240-42666/10  Instrument ID: I8

Lab File ID: I8050312A.csv  ICS Source: MTMSICSABW_00014

Concentration Units: ug/L

| Analyte | True Solution AB | Found Solution AB | Percent Recovery |
|---|---|---|---|
| **Antimony** | **100** | **100** | **100** |
| **Arsenic** | **100** | **98.6** | **99** |
| **Barium** | **100** | **101** | **101** |
| **Beryllium** | **100** | **104** | **104** |
| **Cadmium** | **100** | **98.5** | **98** |
| **Chromium** | **100** | **105** | **105** |
| **Cobalt** | **100** | **100** | **100** |
| **Copper** | **100** | **101** | **101** |
| **Lead** | **100** | **106** | **106** |
| **Molybdenum** | **1100** | **1138** | **103** |
| **Nickel** | **100** | **107** | **107** |
| **Selenium** | **100** | **101** | **101** |
| **Silver** | **100** | **101** | **101** |
| **Thallium** | **100** | **104** | **104** |
| **Tungsten** | **100** | **99.6** | **100** |
| **Vanadium** | **100** | **99.2** | **99** |
| **Zinc** | **100** | **103** | **103** |
| *Aluminum* | *50000* | *48390* | *97* |
| *Boron* | *100* | *99.3* | *99* |
| *Calcium* | *50000* | *51380* | *103* |
| *Iron* | *50000* | *50960* | *102* |
| *Magnesium* | *50000* | *50690* | *101* |
| *Manganese* | *100* | *107* | *107* |
| *Potassium* | *50000* | *50370* | *101* |
| *Sodium* | *50000* | *51610* | *103* |
| *Strontium* | *100* | *95.2* | *95* |
| *Tin* | *100* | *98.8* | *99* |
| *Titanium* | *1100* | *1153* | *105* |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS - TOTAL RECOVERABLE

NOT IN SDG

Client ID: _____ Lab ID: 240-10807-B-5-B MS

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.: _____

Matrix: Water Concentration Units: ug/L

% Solids: _____

| Analyte | SSR | C | Sample Result (SR) | C | Spike Added (SA) | %R | Control Limit %R | Q | Method |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 95.7 | | 0.42 | J | 100 | 95 | 44-153 | | 6020 |
| Arsenic | 959 | | 2.7 | J | 1000 | 96 | 82-123 | | 6020 |
| Barium | 1360 | | 370 | | 1000 | 99 | 45-144 | | 6020 |
| Beryllium | 980 | | 1.0 | U | 1000 | 98 | 77-124 | | 6020 |
| Cadmium | 933 | | 0.14 | J | 1000 | 93 | 78-117 | | 6020 |
| Chromium | 974 | | 2.6 | | 1000 | 97 | 72-110 | | 6020 |
| Cobalt | 968 | | 2.6 | | 1000 | 97 | 67-114 | | 6020 |
| Copper | 931 | | 0.63 | J | 1000 | 93 | 60-123 | | 6020 |
| Lead | 984 | | 0.19 | J | 1000 | 98 | 73-115 | | 6020 |
| Molybdenum | 104 | | 0.87 | J | 100 | 103 | 80-110 | | 6020 |
| Nickel | 962 | | 10 | | 1000 | 95 | 72-111 | ^ | 6020 |
| Selenium | 948 | | 0.87 | J | 1000 | 95 | 72-148 | | 6020 |
| Silver | 92.5 | | 1.0 | U | 100 | 92 | 10-139 | | 6020 |
| Thallium | 244 | | 0.66 | J | 250 | 97 | 69-117 | | 6020 |
| Vanadium | 978 | | 20 | U | 1000 | 98 | 70-112 | | 6020 |
| Tungsten | 96.9 | | 2.2 | J | 100 | 95 | 43-133 | | 6020 |
| Zinc | 921 | | 3.7 | J | 1000 | 92 | 49-156 | | 6020 |

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

NOT IN SDG

Client ID: _____ Lab ID: 240-10770-H-3-C MS

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.: _____

Matrix: Water Concentration Units: ug/L

% Solids: _____

| Analyte | SSR | C | Sample Result (SR) | C | Spike Added (SA) | %R | Control Limit %R | Q | Method |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.913 | | 0.20 | U | 1.00 | 91 | 69-134 | | 7470A |

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

POT 1.2 SDG

Client ID: _____ Lab ID: 240-10837-N-5-C MS

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.: _____

Matrix: Water Concentration Units: ug/L

% Solids: _____

| Analyte | SSR C | | Sample Result (SR) C | | Spike Added (SA) | %R | Control Limit %R | Q | Method |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 1.04 | | 0.20 | U | 1.00 | 104 | 69-134 | | 7470A |

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS - DISSOLVED

PUT IN SDG

Client ID: _____ Lab ID: 240-10837-M-5-C MS

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.: _____

Matrix: Water Concentration Units: ug/L

% Solids: _____

| Analyte | SSR C | | Sample Result (SR) C | | Spike Added (SA) | %R | Control Limit %R | Q | Method |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.921 | | 0.12 | J | 1.00 | 92 | 69-134 | | 7470A |

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS - TOTAL RECOVERABLE

Not in SDG

Client ID: _____ Lab ID: 240-10807-B-5-C MSD

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.: _____

Matrix: Water Concentration Units: ug/L

% Solids: _____

| Analyte | (SDR) C | | Spike Added (SA) | %R | Control Limit %R | RPD | RPD Limit | Q | Method |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 95.8 | | 100 | 95 | 44-153 | 0 | 20 | | 6020 |
| Arsenic | 958 | | 1000 | 96 | 82-123 | 0 | 20 | | 6020 |
| Barium | 1350 | | 1000 | 98 | 45-144 | 1 | 20 | | 6020 |
| Beryllium | 964 | | 1000 | 96 | 77-124 | 2 | 20 | | 6020 |
| Cadmium | 918 | | 1000 | 92 | 78-117 | 2 | 20 | | 6020 |
| Chromium | 973 | | 1000 | 97 | 72-110 | 0 | 20 | | 6020 |
| Cobalt | 963 | | 1000 | 96 | 67-114 | 1 | 20 | | 6020 |
| Copper | 932 | | 1000 | 93 | 60-123 | 0 | 20 | | 6020 |
| Lead | 981 | | 1000 | 98 | 73-115 | 0 | 20 | | 6020 |
| Molybdenum | 103 | | 100 | 103 | 80-110 | 0 | 20 | | 6020 |
| Nickel | 957 | | 1000 | 95 | 72-111 | 1 | 20 | ^ | 6020 |
| Selenium | 947 | | 1000 | 95 | 72-148 | 0 | 20 | | 6020 |
| Silver | 92.4 | | 100 | 92 | 10-139 | 0 | 20 | | 6020 |
| Thallium | 247 | | 250 | 98 | 69-117 | 1 | 20 | | 6020 |
| Vanadium | 979 | | 1000 | 98 | 70-112 | 0 | 20 | | 6020 |
| Tungsten | 97.8 | | 100 | 96 | 43-133 | 1 | 20 | | 6020 |
| Zinc | 920 | | 1000 | 92 | 49-156 | 0 | 20 | | 6020 |

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

NOT IN SDG

Client ID: _____ Lab ID: 240-10770-H-3-D MSD

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.: _____

Matrix: Water Concentration Units: ug/L

% Solids: _____

| Analyte | (SDR) C | | Spike Added (SA) | %R | Control Limit %R | RPD | RPD Limit | Q | Method |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.918 | | 1.00 | 92 | 69-134 | 1 | 20 | | 7470A |

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VD - IN

6-IN
DUPLICATES
METALS

Client ID: Lab ID: 240-10837-N-5-B DU

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

% Solids for Sample: % Solids for Duplicate:

Matrix: Water Concentration Units: ug/L

| Analyte | Control Limit | Sample (S) | C | Duplicate (D) | C | RPD | Q | Method |
|---|---|---|---|---|---|---|---|---|
| Mercury | 0.20 | 0.20 | U | 0.20 | U | NC | | 7470A |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

6-IN
DUPLICATES
METALS - DISSOLVED

POT IP SOG

Client ID: _____ Lab ID: 240-10837-M-5-B DU

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.: _____

% Solids for Sample: _____ % Solids for Duplicate: _____

Matrix: Water Concentration Units: ug/L

| Analyte | Control Limit | Sample (S) | C | Duplicate (D) | C | RPD | Q | Method |
|---|---|---|---|---|---|---|---|---|
| Mercury | 0.20 | 0.12 | J | 0.20 | U | NC | | 7470A |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
METALS - TOTAL RECOVERABLE

Lab ID: LCS 240-42485/2-A

Lab Name: TestAmerica Canton  Job No.: 240-10808-1

Sample Matrix: Water  LCS Source: MTICPMSB_00008

| Analyte | Water(ug/L) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | True | Found | C | %R | Limits | | Q | Method |
| Antimony | 100 | 92.0 | | 92 | 80 | 120 | | 6020 |
| Arsenic | 1000 | 918 | | 92 | 80 | 120 | | 6020 |
| Barium | 1000 | 918 | | 92 | 80 | 120 | | 6020 |
| Beryllium | 1000 | 905 | | 91 | 80 | 120 | | 6020 |
| Cadmium | 1000 | 934 | | 93 | 80 | 120 | | 6020 |
| Chromium | 1000 | 943 | | 94 | 80 | 120 | | 6020 |
| Cobalt | 1000 | 951 | | 95 | 80 | 120 | | 6020 |
| Copper | 1000 | 975 | | 98 | 80 | 120 | | 6020 |
| Lead | 1000 | 1010 | | 101 | 80 | 120 | | 6020 |
| Molybdenum | 100 | 92.2 | | 92 | 80 | 120 | | 6020 |
| Nickel | 1000 | 979 | | 98 | 80 | 120 | ^ | 6020 |
| Selenium | 1000 | 939 | | 94 | 80 | 120 | | 6020 |
| Silver | 100 | 97.5 | | 98 | 80 | 120 | | 6020 |
| Thallium | 250 | 242 | | 97 | 80 | 120 | | 6020 |
| Vanadium | 1000 | 921 | | 92 | 80 | 120 | | 6020 |
| Tungsten | 100 | 88.0 | | 88 | 80 | 120 | | 6020 |
| Zinc | 1000 | 962 | | 96 | 80 | 120 | | 6020 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 240-42671/2-A

Lab Name: TestAmerica Canton  Job No.: 240-10808-1

Sample Matrix: Water  LCS Source: MTHGICVW_00289

| Analyte | Water(ug/L) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | True | Found | C | %R | Limits | | Q | Method |
| Mercury | 5.00 | 4.45 | | 89 | 81 | 123 | | 7470A |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 240-43054/2-A

Lab Name: TestAmerica Canton  Job No.: 240-10808-1

Sample Matrix: Water  LCS Source: MTHGICVW_00291

| Analyte | Water(ug/L) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | True | Found | C | %R | Limits | | Q | Method |
| Mercury | 5.00 | 4.81 | | 96 | 81 | 123 | | 7470A |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS - TOTAL RECOVERABLE

POT IP SDG

Lab ID: 240-10807-B-5-A SD ^5

SDG No:

Lab Name: TestAmerica Canton Job No: 240-10808-1

Matrix: Water Concentration Units: ug/L

| Analyte | Initial Sample Result (I) | C | Serial Dilution Result (S) | C | % Difference | Q | Method |
|---|---|---|---|---|---|---|---|
| Antimony | 0.42 | J | 0.670 | J | NC | | 6020 |
| Arsenic | 2.7 | J | 3.93 | J | NC | | 6020 |
| Barium | 370 | | 371 | | NC | | 6020 |
| Beryllium | 1.0 | U | 5.0 | U | NC | | 6020 |
| Cadmium | 0.14 | J | 5.0 | U | NC | | 6020 |
| Chromium | 2.6 | | 10 | U | NC | | 6020 |
| Cobalt | 2.6 | | 2.89 | J | NC | | 6020 |
| Copper | 0.63 | J | 10 | U | NC | | 6020 |
| Lead | 0.19 | J | 5.0 | U | NC | | 6020 |
| Molybdenum | 0.87 | J | 1.34 | J | NC | | 6020 |
| Nickel | 10 | | 11.6 | | NC | ^ | 6020 |
| Selenium | 0.87 | J | 25 | U | NC | | 6020 |
| Silver | 1.0 | U | 5.0 | U | NC | | 6020 |
| Thallium | 0.66 | J | 1.64 | J | NC | | 6020 |
| Vanadium | 20 | U | 100 | U | NC | | 6020 |
| Tungsten | 2.2 | J | 3.01 | J | NC | | 6020 |
| Zinc | 3.7 | J | 100 | U | NC | | 6020 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job Number: 240-10808-1

SDG Number:

Matrix: Water Instrument ID: I8

Method: 6020 MDL Date: 02/09/2010 15:53

Prep Method: 3005A

| Analyte | Wavelength/ Mass | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| Antimony | 121.00 | 2 | 0.13 |
| Arsenic | 75.00 | 5 | 0.4 |
| Barium | 137.00 | 5 | 0.19 |
| Beryllium | 9.00 | 1 | 0.2 |
| Cadmium | 111.00 | 1 | 0.13 |
| Chromium | 52.00 | 2 | 0.71 |
| Cobalt | 59.00 | 1 | 0.058 |
| Copper | 65.00 | 2 | 0.29 |
| Lead | 208.00 | 1 | 0.18 |
| Molybdenum | 95.00 | 10 | 0.093 |
| Nickel | 60.00 | 2 | 0.2 |
| Selenium | 78.00 | 5 | 0.57 |
| Silver | 107.00 | 1 | 0.08 |
| Thallium | 205.00 | 2 | 0.14 |
| Tungsten | 182.00 | 10 | 0.37 |
| Vanadium | 51.00 | 20 | 0.44 |
| Zinc | 66.00 | 20 | 2.3 |

9-IN
DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Canton  Job Number: 240-10808-1

SDG Number:

Matrix: Water  Instrument ID: I8

Method: 6020  MDL Date: 02/09/2010 15:53

Prep Method: 3005A

| Analyte | Wavelength/ Mass | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| Antimony | 121.00 | 2 | 0.13 |
| Arsenic | 75.00 | 5 | 0.4 |
| Barium | 137.00 | 5 | 0.19 |
| Beryllium | 9.00 | 1 | 0.2 |
| Cadmium | 111.00 | 1 | 0.13 |
| Chromium | 52.00 | 2 | 0.71 |
| Cobalt | 59.00 | 1 | 0.058 |
| Copper | 65.00 | 2 | 0.29 |
| Lead | 208.00 | 1 | 0.18 |
| Molybdenum | 95.00 | 10 | 0.093 |
| Nickel | 60.00 | 2 | 0.2 |
| Selenium | 78.00 | 5 | 0.57 |
| Silver | 107.00 | 1 | 0.08 |
| Thallium | 205.00 | 2 | 0.14 |
| Tungsten | 182.00 | 10 | 0.37 |
| Vanadium | 51.00 | 20 | 0.44 |
| Zinc | 66.00 | 20 | 2.3 |

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Canton Job Number: 240-10808-1

SDG Number:

Matrix: Water Instrument ID: H4

Method: 7470A MDL Date: 02/08/2010 16:06

Prep Method: 7470A

| Analyte | Wavelength/ Mass | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| Mercury | 253.7 | 0.2 | 0.12 |

9-IN
DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Canton  Job Number: 240-10808-1

SDG Number:

Matrix: Water  Instrument ID: H4

Method: 7470A  MDL Date: 02/08/2010 16:06

Prep Method: 7470A

| Analyte | Wavelength/ Mass | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| Mercury | 253.7 | 0.2 | 0.12 |

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Prep Method: 3005A

| Lab Sample ID | Preparation Date | Prep Batch | Initial Weight | Initial Volume (mL) | Final Volume (mL) |
|---|---|---|---|---|---|
| MB 240-42485/1-A | 05/02/2012 10:01 | 42485 | | 50 | 50 |
| LCS 240-42485/2-A | 05/02/2012 10:01 | 42485 | | 50 | 50 |
| 240-10807-B-5-B MS | 05/02/2012 10:01 | 42485 | | 50 | 50 |
| 240-10807-B-5-C MSD | 05/02/2012 10:01 | 42485 | | 50 | 50 |
| 240-10808-2 | 05/02/2012 10:01 | 42485 | | 50 | 50 |
| 240-10808-2 | 05/02/2012 10:01 | 42485 | | 50 | 50 |
| 240-10808-3 | 05/02/2012 10:01 | 42485 | | 50 | 50 |
| 240-10808-3 | 05/02/2012 10:01 | 42485 | | 50 | 50 |
| 240-10808-4 | 05/02/2012 10:01 | 42485 | | 50 | 50 |
| 240-10808-4 | 05/02/2012 10:01 | 42485 | | 50 | 50 |

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Prep Method: 7470A

| Lab Sample ID | Preparation Date | Prep Batch | Initial Weight | Initial Volume (mL) | Final Volume (mL) |
|---|---|---|---|---|---|
| MB 240-42671/1-A | 05/03/2012 15:55 | 42671 | | 100 | 100 |
| LCS 240-42671/2-A | 05/03/2012 15:55 | 42671 | | 100 | 100 |
| 240-10770-H-3-C MS | 05/03/2012 15:55 | 42671 | | 100 | 100 |
| 240-10770-H-3-D MSD | 05/03/2012 15:55 | 42671 | | 100 | 100 |
| 240-10808-2 | 05/03/2012 15:55 | 42671 | | 100 | 100 |
| 240-10808-2 | 05/03/2012 15:55 | 42671 | | 100 | 100 |

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Prep Method: 7470A

| Lab Sample ID | Preparation Date | Prep Batch | Initial Weight | Initial Volume (mL) | Final Volume (mL) |
|---|---|---|---|---|---|
| MB 240-43054/1-A | 05/07/2012 14:15 | 43054 | | 100 | 100 |
| LCS 240-43054/2-A | 05/07/2012 14:15 | 43054 | | 100 | 100 |
| 240-10837-N-5-B DU | 05/07/2012 14:15 | 43054 | | 100 | 100 |
| 240-10837-N-5-C MS | 05/07/2012 14:15 | 43054 | | 100 | 100 |
| 240-10837-M-5-B DU | 05/07/2012 14:15 | 43054 | | 100 | 100 |
| 240-10837-M-5-C MS | 05/07/2012 14:15 | 43054 | | 100 | 100 |
| 240-10808-3 | 05/07/2012 14:15 | 43054 | | 100 | 100 |
| 240-10808-4 | 05/07/2012 14:15 | 43054 | | 100 | 100 |
| 240-10808-3 | 05/07/2012 14:15 | 43054 | | 100 | 100 |
| 240-10808-4 | 05/07/2012 14:15 | 43054 | | 100 | 100 |

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

ICP-MS Instrument ID: I8 Start Date: 05/03/2012 End Date: 05/03/2012

| Lab Sample ID | Time | Internal Standards %RI For: | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Element Li | Q | Element Sc | Q | Element Sc | Q | Element Ge | Q | Element In | Q |
| STD2 240-42666/2 IC | 06:00 | 95 | | 94 | | 97 | | 94 | | 95 | |
| STD3 240-42666/3 IC | 06:05 | 94 | | 93 | | 92 | | 88 | | 91 | |
| STD4 240-42666/4 IC | 06:12 | 102 | | 112 | | 104 | | 106 | | 104 | |
| ICV 240-42666/5 | 06:17 | 98 | | 102 | | 99 | | 97 | | 97 | |
| ICB 240-42666/6 | 06:22 | 104 | | 113 | | 105 | | 103 | | 103 | |
| CRI 240-42666/8 | 06:33 | 104 | | 112 | | 103 | | 102 | | 102 | |
| ICSA 240-42666/9 | 06:39 | 86 | | 92 | | 87 | | 88 | | 91 | |
| ICSAB 240-42666/10 | 06:44 | 70 | | 84 | | 84 | | 85 | | 89 | |
| CCV 240-42666/22 | 07:54 | 83 | | 93 | | 90 | | 87 | | 89 | |
| CCB 240-42666/23 | 08:00 | 93 | | 105 | | 95 | | 95 | | 95 | |
| MB 240-42485/1-A | 08:05 | 95 | | 106 | | 98 | | 96 | | 95 | |
| LCS 240-42485/2-A | 08:11 | 92 | | 101 | | 94 | | 92 | | 94 | |
| 240-10807-B-5-A SD | 08:23 | 89 | | 102 | | 93 | | 90 | | 90 | |
| 240-10807-B-5-B MS | 08:28 | 75 | | 82 | | 77 | | 73 | | 76 | |
| 240-10807-B-5-C MSD | 08:34 | 75 | | 83 | | 77 | | 72 | | 77 | |
| CCV 240-42666/34 | 09:03 | 85 | | 96 | | 89 | | 86 | | 86 | |
| CCB 240-42666/35 | 09:08 | 95 | | 107 | | 97 | | 94 | | 94 | |
| 240-10808-2 | 10:02 | 89 | | 103 | | 92 | | 89 | | 88 | |
| CCV 240-42666/46 | 10:08 | 85 | | 97 | | 86 | | 83 | | 83 | |
| CCB 240-42666/47 | 10:13 | 93 | | 107 | | 94 | | 92 | | 90 | |
| 240-10808-2 | 10:19 | 91 | | 103 | | 92 | | 88 | | 86 | |
| 240-10808-3 | 10:24 | 87 | | 98 | | 86 | | 82 | | 82 | |
| 240-10808-3 | 10:29 | 85 | | 96 | | 85 | | 81 | | 81 | |
| 240-10808-4 | 10:35 | 87 | | 100 | | 91 | | 89 | | 88 | |
| 240-10808-4 | 10:40 | 85 | | 99 | | 90 | | 88 | | 88 | |
| CCV 240-42666/53 | 10:45 | 80 | | 92 | | 85 | | 80 | | 80 | |
| CCB 240-42666/54 | 10:51 | 89 | | 101 | | 90 | | 89 | | 87 | |

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

ICP-MS Instrument ID: I8 Start Date: 05/03/2012 End Date: 05/03/2012

| Lab Sample ID | Time | Internal Standards %RI For: | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Element Tb | Q | Element Ho | Q | Element Bi | Q | Element | Q | Element | Q |
| STD2 240-42666/2 IC | 06:00 | | | 98 | | | | | | | |
| STD3 240-42666/3 IC | 06:05 | | | 94 | | | | | | | |
| STD4 240-42666/4 IC | 06:12 | | | 103 | | | | | | | |
| ICV 240-42666/5 | 06:17 | | | 99 | | | | | | | |
| ICB 240-42666/6 | 06:22 | | | 101 | | | | | | | |
| CRI 240-42666/8 | 06:33 | | | 102 | | | | | | | |
| ICSA 240-42666/9 | 06:39 | | | 91 | | | | | | | |
| ICSAB 240-42666/10 | 06:44 | | | 91 | | | | | | | |
| CCV 240-42666/22 | 07:54 | | | 90 | | | | | | | |
| CCB 240-42666/23 | 08:00 | | | 94 | | | | | | | |
| MB 240-42485/1-A | 08:05 | | | 95 | | | | | | | |
| LCS 240-42485/2-A | 08:11 | | | 95 | | | | | | | |
| 240-10807-B-5-A SD | 08:23 | | | 91 | | | | | | | |
| 240-10807-B-5-B MS | 08:28 | | | 80 | | | | | | | |
| 240-10807-B-5-C MSD | 08:34 | | | 79 | | | | | | | |
| CCV 240-42666/34 | 09:03 | | | 86 | | | | | | | |
| CCB 240-42666/35 | 09:08 | | | 90 | | | | | | | |
| 240-10808-2 | 10:02 | | | 91 | | | | | | | |
| CCV 240-42666/46 | 10:08 | | | 81 | | | | | | | |
| CCB 240-42666/47 | 10:13 | | | 86 | | | | | | | |
| 240-10808-2 | 10:19 | | | 91 | | | | | | | |
| 240-10808-3 | 10:24 | | | 82 | | | | | | | |
| 240-10808-3 | 10:29 | | | 80 | | | | | | | |
| 240-10808-4 | 10:35 | | | 86 | | | | | | | |
| 240-10808-4 | 10:40 | | | 86 | | | | | | | |
| CCV 240-42666/53 | 10:45 | | | 80 | | | | | | | |
| CCB 240-42666/54 | 10:51 | | | 83 | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Instrument ID: I8 Method: 6020

Start Date: 05/03/2012 05:54 End Date: 05/03/2012 10:51

| Lab Sample ID | D/F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Ag | As | Ba | Be | Cd | Co | Cr | Cu | Mo | Ni | Pb | Sb | Se | Tl | V | W | Zn | | | |
| ICIS 240-42666/1 | | | 05:54 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| STD2 240-42666/2 IC | 1 | | 06:00 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| STD3 240-42666/3 IC | 1 | | 06:05 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| STD4 240-42666/4 IC | 1 | | 06:12 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ICV 240-42666/5 | 1 | | 06:17 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ICB 240-42666/6 | 1 | | 06:22 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CRI 240-42666/7 | | | 06:28 | | | | | | | | | | | | | | | | | | | | |
| CRI 240-42666/8 | 1 | | 06:33 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ICSA 240-42666/9 | 1 | | 06:39 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ICSAB 240-42666/10 | 1 | | 06:44 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CCV 240-42666/11 | | | 06:50 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-42666/12 | | | 06:55 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42666/13 | | | 07:04 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-42666/14 | | | 07:10 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 07:15 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 07:21 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 07:26 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 07:31 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 07:37 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 07:42 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 07:49 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42666/22 | 1 | | 07:54 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CCB 240-42666/23 | 1 | | 08:00 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| MB 240-42485/1-A | 1 | R | 08:05 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| LCS 240-42485/2-A | 1 | R | 08:11 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ZZZZZZ | | | 08:17 | | | | | | | | | | | | | | | | | | | | |
| 240-10807-B-5-A SD ^5 | 5 | R | 08:23 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| 240-10807-B-5-B MS | 1 | R | 08:28 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| 240-10807-B-5-C MSD | 1 | R | 08:34 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ZZZZZZ | | | 08:41 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:46 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:52 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:57 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42666/34 | 1 | | 09:03 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CCB 240-42666/35 | 1 | | 09:08 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ZZZZZZ | | | 09:14 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:19 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:24 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:30 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:41 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:46 | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Instrument ID: I8 Method: 6020

Start Date: 05/03/2012 05:54 End Date: 05/03/2012 10:51

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Ag | As | Ba | Be | Cd | Co | Cr | Cu | Mo | Ni | Pb | Sb | Se | Tl | V | W | Zn | | | |
| ZZZZZZ | | | 09:52 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:57 | | | | | | | | | | | | | | | | | | | | |
| 240-10808-2 | 1 | R | 10:02 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CCV 240-42666/46 | 1 | | 10:08 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CCB 240-42666/47 | 1 | | 10:13 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| 240-10808-2 | 1 | D | 10:19 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| 240-10808-3 | 1 | R | 10:24 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| 240-10808-3 | 1 | D | 10:29 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| 240-10808-4 | 1 | R | 10:35 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| 240-10808-4 | 1 | D | 10:40 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CCV 240-42666/53 | 1 | | 10:45 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CCB 240-42666/54 | 1 | | 10:51 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |

Prep Types
D = Dissolved
R = Total Recoverable

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Instrument ID: H4 Method: 7470A

Start Date: 05/04/2012 10:31 End Date: 05/04/2012 18:44

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Hg | | | | | | | | | | | | | | | | | | | | |
| IC 240-42622/1-A | | | 10:31 | X | | | | | | | | | | | | | | | | | | | | |
| IC 240-42622/2-A | | | 10:33 | X | | | | | | | | | | | | | | | | | | | | |
| IC 240-42622/3-A | | | 10:35 | X | | | | | | | | | | | | | | | | | | | | |
| IC 240-42622/4-A | | | 10:37 | X | | | | | | | | | | | | | | | | | | | | |
| IC 240-42622/5-A | | | 10:39 | X | | | | | | | | | | | | | | | | | | | | |
| IC 240-42622/6-A | | | 10:41 | X | | | | | | | | | | | | | | | | | | | | |
| ICV 240-42622/7-A | 1 | | 10:43 | X | | | | | | | | | | | | | | | | | | | | |
| ICB 240-42622/8-A | 1 | | 10:45 | X | | | | | | | | | | | | | | | | | | | | |
| CRA 240-42622/9-A | 1 | | 10:48 | X | | | | | | | | | | | | | | | | | | | | |
| CCVL 240-42622/10-A | 1 | | 10:53 | X | | | | | | | | | | | | | | | | | | | | |
| CCB 240-42622/11-A | | | 10:55 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:56 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:58 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:00 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:02 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:04 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:06 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:09 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:11 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:13 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:15 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42622/12-A | | | 11:17 | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-42622/11-A | | | 11:19 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:21 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:24 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:26 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:28 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:30 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:32 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:34 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:36 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:38 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:40 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42622/12-A | | | 11:42 | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-42622/11-A | | | 11:44 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:46 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:48 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:50 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:53 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:55 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:57 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:59 | | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Instrument ID: H4 Method: 7470A

Start Date: 05/04/2012 10:31 End Date: 05/04/2012 18:44

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Hg | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:00 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:03 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:05 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42622/12-A | 1 | | 12:07 | X | | | | | | | | | | | | | | | | | | | | |
| CCB 240-42622/11-A | 1 | | 12:09 | X | | | | | | | | | | | | | | | | | | | | |
| MB 240-42671/1-A | 1 | T | 12:12 | X | | | | | | | | | | | | | | | | | | | | |
| LCS 240-42671/2-A | 1 | T | 12:14 | X | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:16 | | | | | | | | | | | | | | | | | | | | | |
| 240-10770-H-3-C MS | 1 | T | 12:18 | X | | | | | | | | | | | | | | | | | | | | |
| 240-10770-H-3-D MSD | 1 | T | 12:20 | X | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:22 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:25 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:27 | | | | | | | | | | | | | | | | | | | | | |
| 240-10808-2 | 1 | T | 12:29 | X | | | | | | | | | | | | | | | | | | | | |
| 240-10808-2 | 1 | D | 12:31 | X | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42622/12-A | 1 | | 12:34 | X | | | | | | | | | | | | | | | | | | | | |
| CCB 240-42622/11-A | 1 | | 12:35 | X | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:37 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:39 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:41 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:43 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:46 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:47 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:49 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:51 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:53 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:55 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42622/12-A | | | 12:59 | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-42622/11-A | | | 13:00 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:03 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:06 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42622/12-A | | | 13:09 | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-42622/11-A | | | 13:11 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42622/12-A | | | 14:41 | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-42622/11-A | | | 14:43 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:45 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:47 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:49 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:51 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:53 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:55 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:57 | | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Instrument ID: H4 Method: 7470A

Start Date: 05/04/2012 10:31 End Date: 05/04/2012 18:44

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | | |
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| | | | | Hg | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:59 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:01 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:03 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42622/12-A | | | 15:05 | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-42622/11-A | | | 15:07 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:09 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:11 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42622/12-A | | | 15:13 | | | | | | | | | | | | | | | | | | | | | |
| CRA 240-42622/9-A | | | 15:15 | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-42622/11-A | | | 15:18 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:20 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:22 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:24 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:26 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:28 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:30 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:33 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:34 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:36 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:39 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42622/12-A | | | 15:40 | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-42622/11-A | | | 15:42 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:44 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:46 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:48 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:50 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:52 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:54 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:57 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:58 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:01 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:04 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42622/12-A | | | 16:06 | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-42622/11-A | | | 16:08 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:10 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:12 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:14 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:16 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:18 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:19 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:21 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:23 | | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Instrument ID: H4 Method: 7470A

Start Date: 05/04/2012 10:31 End Date: 05/04/2012 18:44

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Hg | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:25 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:27 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42622/12-A | | | 16:29 | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-42622/11-A | | | 16:31 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:33 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:35 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:37 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:39 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:41 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:43 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42622/12-A | | | 16:46 | | | | | | | | | | | | | | | | | | | | | |
| CRA 240-42622/9-A | | | 16:48 | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-42622/11-A | | | 16:50 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:52 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:54 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:56 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:58 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:00 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:02 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:04 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:07 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:10 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:12 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42622/12-A | | | 17:14 | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-42622/11-A | | | 17:17 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:20 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:22 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:24 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:25 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:27 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:29 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:31 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:33 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:35 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:38 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42622/12-A | | | 17:40 | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-42622/11-A | | | 17:42 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:44 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:46 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:48 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:49 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:52 | | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Instrument ID: H4 Method: 7470A

Start Date: 05/04/2012 10:31 End Date: 05/04/2012 18:44

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Hg | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:54 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:56 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:58 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:00 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:03 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42622/12-A | | | 18:05 | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-42622/11-A | | | 18:07 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:09 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:11 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:13 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:15 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:17 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:20 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:21 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:25 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:27 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:29 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42622/12-A | | | 18:31 | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-42622/11-A | | | 18:33 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:35 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:37 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-42622/12-A | | | 18:39 | | | | | | | | | | | | | | | | | | | | | |
| CRA 240-42622/9-A | | | 18:41 | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-42622/11-A | | | 18:44 | | | | | | | | | | | | | | | | | | | | | |

Prep Types
D = Dissolved
T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Instrument ID: H4 Method: 7470A

Start Date: 05/08/2012 14:30 End Date: 05/08/2012 17:03

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Hg | | | | | | | | | | | | | | | | | | | | |
| IC 240-43145/1-A | | | 14:30 | X | | | | | | | | | | | | | | | | | | | | |
| IC 240-43145/2-A | | | 14:33 | X | | | | | | | | | | | | | | | | | | | | |
| IC 240-43145/3-A | | | 14:35 | X | | | | | | | | | | | | | | | | | | | | |
| IC 240-43145/4-A | | | 14:37 | X | | | | | | | | | | | | | | | | | | | | |
| IC 240-43145/5-A | | | 14:39 | X | | | | | | | | | | | | | | | | | | | | |
| IC 240-43145/6-A | | | 14:41 | X | | | | | | | | | | | | | | | | | | | | |
| ICV 240-43145/7-A | 1 | | 14:43 | X | | | | | | | | | | | | | | | | | | | | |
| ICB 240-43145/8-A | 1 | | 14:45 | X | | | | | | | | | | | | | | | | | | | | |
| CRA 240-43145/9-A | 1 | | 14:47 | X | | | | | | | | | | | | | | | | | | | | |
| CCVL 240-43145/10-A | 1 | | 14:49 | X | | | | | | | | | | | | | | | | | | | | |
| CCB 240-43145/11-A | | | 14:51 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:53 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:55 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:57 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:00 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:01 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:04 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:06 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:08 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:09 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:12 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-43145/12-A | | | 15:13 | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-43145/11-A | | | 15:15 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:18 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:20 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:22 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:23 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:25 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:28 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:30 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:32 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:34 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:36 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-43145/12-A | 1 | | 15:39 | X | | | | | | | | | | | | | | | | | | | | |
| CCB 240-43145/11-A | 1 | | 15:40 | X | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:42 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:45 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:47 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:49 | | | | | | | | | | | | | | | | | | | | | |
| MB 240-43054/1-A | 1 | T | 15:51 | X | | | | | | | | | | | | | | | | | | | | |
| LCS 240-43054/2-A | 1 | T | 15:54 | X | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:56 | | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-10808-1

SDG No.:

Instrument ID: H4 Method: 7470A

Start Date: 05/08/2012 14:30 End Date: 05/08/2012 17:03

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Hg | | | | | | | | | | | | | | | | | | | |
| 240-10837-N-5-B DU | 1 | T | 15:58 | X | | | | | | | | | | | | | | | | | | | |
| 240-10837-N-5-C MS | 1 | T | 16:00 | X | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:02 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-43145/12-A | 1 | | 16:04 | X | | | | | | | | | | | | | | | | | | | |
| CCB 240-43145/11-A | 1 | | 16:06 | X | | | | | | | | | | | | | | | | | | | |
| 240-10837-M-5-B DU | 1 | D | 16:08 | X | | | | | | | | | | | | | | | | | | | |
| 240-10837-M-5-C MS | 1 | D | 16:10 | X | | | | | | | | | | | | | | | | | | | |
| 240-10808-3 | 1 | T | 16:13 | X | | | | | | | | | | | | | | | | | | | |
| 240-10808-4 | 1 | T | 16:15 | X | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:16 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:19 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:21 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:23 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:25 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:27 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-43145/12-A | 1 | | 16:29 | X | | | | | | | | | | | | | | | | | | | |
| CCB 240-43145/11-A | 1 | | 16:31 | X | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:33 | | | | | | | | | | | | | | | | | | | | |
| 240-10808-3 | 1 | D | 16:35 | X | | | | | | | | | | | | | | | | | | | |
| 240-10808-4 | 1 | D | 16:37 | X | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:39 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:41 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:43 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:45 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:48 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:50 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:52 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-43145/12-A | 1 | | 16:55 | X | | | | | | | | | | | | | | | | | | | |
| CCB 240-43145/11-A | 1 | | 16:57 | X | | | | | | | | | | | | | | | | | | | |
| CRA 240-43145/9-A | | | 16:59 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-43145/12-A | | | 17:01 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-43145/11-A | | | 17:03 | | | | | | | | | | | | | | | | | | | | |

Prep Types
D = Dissolved
T = Total/NA

Sample GSP-MW5-043012 Arsenic rep result 3.4 ug/L

240-10808-h-2-a, 5/3/2012 10:02:46 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

| Run | Time | 6Li | 9Be | 10B |
|---|---|---|---|---|
| | | ppb | ppb | ppb |
| x | | 88.899% | 1.291 | 145.100 |
| %RSD | | 3.358 | 3.521 | 4.185 |
| Run | Time | 23Na | 25Mg | 27Al |
| | | ppb | ppb | ppb |
| x | | T 22910.000 | 29720.000 | M 1882.000 |
| %RSD | | T 0.610 | 1.116 | M 1.593 |
| Run | Time | 35Cl | 39K | 43Ca |
| | | ppb | ppb | ppb |
| x | | T 0.000 | T 7130.000 | 39970.000 |
| %RSD | | T 0.000 | T 1.338 | 0.963 |
| Run | Time | 45Sc | 45Sc | 47Ti |
| | | ppb | ppb | ppb |
| x | | T 102.927% | 91.766% | 9.978 |
| %RSD | | T 3.285 | 0.615 | 87.350 |
| Run | Time | 51V | 52Cr | 53Cl Cl |
| | | ppb | ppb | ppb |
| x | | 4.422 | 2.158 | -1.078 |
| %RSD | | 2.924 | 1.423 | 63.520 |
| Run | Time | 55Mn | 56Fe | 59Co |
| | | ppb | ppb | ppb |
| x | | T 724.000 | 3085.000 | 26.260 |
| %RSD | | T 0.118 | 0.626 | 0.579 |
| Run | Time | 60Ni | 65Cu | 66Zn |
| | | ppb | ppb | ppb |
| x | | 17.070 | 4.879 | 27.900 |
| %RSD | | 3.691 | 2.414 | 1.032 |
| Run | Time | 72Ge | 75As | 77Ar Cl |
| | | ppb | ppb | ppb |
| x | | 89.055% | 3.427 | 0.410 |
| %RSD | | 0.656 | 5.055 | 8.212 |
| Run | Time | 78Se | 88Sr | 95Mo |
| | | ppb | ppb | ppb |
| x | | 2.237 | 180.500 | 0.337 |
| %RSD | | 12.880 | 0.921 | 25.110 |
| Run | Time | 105Pd | 107Ag | 108Mo O |
| | | ppb | ppb | ppb |
| x | | 0.000 | 0.011 | -25.870 |
| %RSD | | 0.000 | 28.770 | 14.450 |
| Run | Time | 111Cd | 115In | 118Sn |
| | | ppb | ppb | ppb |
| x | | 0.323 | 87.649% | 0.103 |
| %RSD | | 20.830 | 0.703 | 21.390 |
| Run | Time | 121Sb | 137Ba | 159Tb |
| | | ppb | ppb | ppb |
| x | | 0.090 | 20.820 | 0.000 |
| %RSD | | 19.370 | 0.871 | 0.000 |
| Run | Time | 165Ho | 182W | 205Tl |
| | | ppb | ppb | ppb |
| x | | 91.414% | 0.027 | 0.114 |
| %RSD | | 1.992 | 10.410 | 13.610 |
| Run | Time | 208Pb | 209Bi | |
| | | ppb | ppb | |
| x | | 0.388 | 0.000 | |
| %RSD | | 11.960 | 0.000 | |

# Case Narrative

# TestAmerica West Sacramento Project Number G2E030413

**WATER, 6850, Perchlorate**
Samples: 1, 2, 3
In accordance with the requirements of Method 6850, both a Laboratory Control Sample (LCS) and a Synthetic Matrix Check Sample (SMCS) were analyzed with the associated samples. Both are reported on the LCS data evaluation and recovery reports, and are differentiated from one another by their workorder number:

LCS: MTELA1AC
SMCS: MTELA1AD

There are no other anomalies associated with this project.

# ANALYTICAL METHODS SUMMARY

G2E030413

| PARAMETER | ANALYTICAL METHOD |
|---|---|
| Perchlorate by 6850 | SW846 6850 |

**References:**

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

METHOD BLANK REPORT

HPLC - Mass. Spec.

Client Lot #...: G2E030413 Work Order #...: MTELA1AA Matrix.....: WATER
MB Lot-Sample #: G2E070000-058

Prep Date.....: 05/07/12
Analysis Date..: 05/14/12 Prep Batch #...: 2128058
Dilution Factor: 1

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---|---|---|---|---|
| Perchlorate | ND | 1.0 | ug/L | SW846 6850 |

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC - Mass. Spec.

Client Lot #...: G2E030413 Work Order #...: MTELA1AC Matrix.....: WATER
LCS Lot-Sample#: G2E070000-058
Prep Date.....: 05/07/12 Analysis Date..: 05/15/12
Prep Batch #...: 2128058
Dilution Factor: 1

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD |
|---|---|---|---|
| Perchlorate | 92 | (80 - 120) | SW846 6850 |

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

HPLC - Mass. Spec.

Client Lot #...: G2E030413 Work Order #...: MTELA1AC Matrix.....: WATER
LCS Lot-Sample#: G2E070000-058
Prep Date.....: 05/07/12 Analysis Date..: 05/15/12
Prep Batch #...: 2128058
Dilution Factor: 1

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCENT RECOVERY | METHOD |
|---|---|---|---|---|---|
| Perchlorate | 5.00 | 4.62 | ug/L | 92 | SW846 6850 |

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC - Mass. Spec.

Client Lot #...: G2E030413 Work Order #...: MTELA1AD Matrix.....: WATER
LCS Lot-Sample#: G2E070000-058
Prep Date.....: 05/07/12 Analysis Date..: 05/15/12
Prep Batch #...: 2128058
Dilution Factor: 1

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD |
|---|---|---|---|
| Perchlorate | 97 | (80 - 120) | SW846 6850 |

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

HPLC - Mass. Spec.

Client Lot #...: G2E030413 Work Order #...: MTELA1AD Matrix.....: WATER
LCS Lot-Sample#: G2E070000-058
Prep Date.....: 05/07/12 Analysis Date..: 05/15/12
Prep Batch #...: 2128058
Dilution Factor: 1

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCENT RECOVERY | METHOD |
|---|---|---|---|---|---|
| Perchlorate | 5.00 | 4.86 | ug/L | 97 | SW846 6850 |

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

HPLC - Mass. Spec.

Client Lot #...: G2E030413 Work Order #...: MTDHX1AC-MS Matrix.....: WATER
MS Lot-Sample #: G2E030450-004 MTDHX1AD-MSD
Date Sampled...: 05/01/12 Date Received..: 05/03/12
Prep Date.....: 05/07/12 Analysis Date..: 05/16/12
Prep Batch #...: 2128058
Dilution Factor: 1

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD | RPD LIMITS | METHOD |
|---|---|---|---|---|---|
| Perchlorate | 99 | (80 - 120) | | | SW846 6850 |
| | 97 | (80 - 120) | 1.8 | (0-15) | SW846 6850 |

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## MATRIX SPIKE SAMPLE DATA REPORT

### HPLC - Mass. Spec.

Client Lot #...: G2E030413 Work Order #...: MTDHX1AC-MS Matrix.....: WATER
MS Lot-Sample #: G2E030450-004 MTDHX1AD-MSD
Date Sampled...: 05/01/12 Date Received..: 05/03/12
Prep Date.....: 05/07/12 Analysis Date..: 05/16/12
Prep Batch #...: 2128058
Dilution Factor: 1

| PARAMETER | SAMPLE AMOUNT | SPIKE AMT | MEASRD AMOUNT | UNITS | PERCNT RECVRY | RPD | METHOD |
|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 5.00 | 4.95 | ug/L | 99 | | SW846 6850 |
| | ND | 5.00 | 4.86 | ug/L | 97 | 1.8 | SW846 6850 |

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

**Tetra Tech INC** **INTERNAL CORRESPONDENCE**

| | | | |
|---|---|---|---|
| **TO:** | **T. APANAVAGE** | **DATE:** | **OCTOBER 1, 2012** |
| **FROM:** | **J. KALINYAK** | **COPIES:** | **DV FILE** |

**SUBJECT:** **ORGANIC DATA VALIDATION - VOC / SVOC / PCB / TPH (C06-C10) & (C10-C32)**
**LOCKHEED - MSA**
**SAMPLE DELIVERY GROUP (SDG) 240-13043-1**

**SAMPLES:** 1 / Aqueous / VOC

TB-070912

6 / Soil / VOC/ SVOC / PCB / GRO / DRO

| | | |
|---|---|---|
| MT-SS19-0-2 | MT-SS19-8-10 | MT-SS20-0-2 |
| MT-SS20-8-10 | MT-SS21-0-2 | MT-SS21-8-10 |

Overview

The sample set for Lockheed - MSA, SDG 240-13043-1, consisted of one (1) aqueous sample six (6) soil samples including one (1) aqueous trip blank sample. All samples were analyzed for volatile organic compounds (VOC) as listed above. The six (6) soil samples were analyzed for semi-volatile organic compounds, polychlorinated biphenyls (PCB), and total petroleum hydrocarbons (TPH) C06-C10 & C10-C32, as listed above. No field duplicate sample pairs were included in the sample delivery group (SDG).

The samples were collected by Tetra Tech on July 9, 2012 and analyzed by TestAmerica Laboratories, Inc., Canton for all analyses. All analyses were conducted in accordance with EPA SW-846 Methods 8260B for VOCs, 8270D for SVOCs, 8015C for GRO, 8015C for DRO, and 8082A for PCBs, analytical and reporting protocols.

The data contained in this SDG were validated with regard to the following parameters: data completeness, holding times, GC/MS tuning, initial/continuing calibrations, laboratory method blank results, surrogate spike recoveries, blank spike/blank spike duplicate results, matrix spike/matrix spike duplicate results, internal standard recoveries, chromatographic resolution, compound identification, compound quantitation, and detection limits. Areas of concern are listed below.

Major Problems

- The VOC initial calibration average relative response factor (RRF) was less than the 0.05 criteria for vinyl acetate and tert-butyl alcohol on instrument A3UX10 on 06/29/12 and on instrument A2UX8 on 06/01/12. The continuing calibration verification (CCV) RRFs for tert-butyl alcohol and vinyl acetate were also less than the 0.05 criteria for instrument A3UX10 on 07/13/12 @ 14:45.
  **Affected Samples:** All samples
  **Action:** The sample non-detected results for tert-butyl alcohol and vinyl acetate were qualified rejected, (UR).

- The VOC CCV RRF for acetone was less than the 0.05 criteria for instrument A3UX10 on 07/13/12 @ 14:45.
  **Affected Samples:** TB-070912
  **Action:** The sample non-detected result for acetone was qualified rejected, (UR).

- The VOC initial calibration average RRF was less than the 0.05 criteria for 2-chloroethyl vinyl ether on instrument A3UX8 on 06/01/12. The CCV RRFs for 2-chloroethyl vinyl ether was also less than the 0.05 criteria for instrument A3UX8 on 07/12/12 @ 00:20.

  **Affected Samples:**

  | | | |
  |---|---|---|
  | MT-SS19-0-2 | MT-SS19-8-10 | MT-SS20-0-2 |
  | MT-SS20-8-10 | MT-SS21-0-2 | MT-SS21-8-10 |

  **Action:** The sample non-detected results for 2-chloroethyl vinyl ether were qualified rejected, (UR).

- Octamethyl-cyclotetrasiloxane was detected as a tentatively identified compound (TIC) by the laboratory for all soil samples.

  **Action:** Octamethyl-cyclotetrasiloxane is considered present due to column bleed on the laboratory instrument. The positive TIC octamethyl-cyclotetrasiloxane results for these samples were qualified rejected, (R).

Minor Problems

- The following laboratory VOC contaminants were detected in the method blanks at the following maximum concentrations affecting samples as listed.

| Analytes | Maximum Conc. | Action Level |
|---|---|---|
| Acetone [1] | 6.35 µg/kg | 63.50 µg/kg |
| Naphthalene [1] | 0.505 µg/kg | 2.525 µg/kg |
| Methylene Chloride [1] | 3.62 µg/kg | 36.20 µg/kg |

  [1] Method blank MB 240-50546/7 affecting all soil samples.

  An action level of ten times the maximum level for acetone and methylene chloride and five times the maximum level for naphthalene has been used to evaluate sample data for blank contamination. Sample aliquot, percent solids, and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. Samples were qualified (B) for naphthalene and methylene chloride method blank contamination.

- The following laboratory SVOC contaminant was detected in the method blank at the following maximum concentration affecting samples as listed.

| Analytes | Maximum Conc. | Action Level |
|---|---|---|
| Bis(2-ethylhexyl)phthalate [1] | 30.3 µg/kg | 303.0 µg/kg |

  [1] Method blank MB 240-51193/23-A affecting soil samples MT-SS19-8-10, MT-SS20-0-2, MT-SS20-8-10, MT-SS21-0-2, and MT-SS21-8-10.

  An action level of ten times the maximum level for bis(2-ethylhexyl)phthalate has been used to evaluate sample data for blank contamination. Sample aliquot, percent solids, and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. Samples were qualified (B) for bis(2-ethylhexyl)phthalate method blank contamination.

- All soil samples had positive VOC hexane results reported as TICs. The sample positive hexane results were qualified as estimated, (J), presumptively present, as a TIC analyte.

- TPH (C10-C32) was detected in the method blank at the following maximum concentration affecting all samples.

| Analytes | Maximum Conc. mg/kg | Action Level mg/kg |
|---|---|---|
| TPH (C10-C32) [1] | 16.5 | 82.5 |

[1] Method blank MB 240-51014/22-A affecting all soil samples.

An action level of five times the maximum level for TPH (C10-C32) has been used to evaluate sample data for blank contamination. Sample aliquot, percent solids, and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. Sample TPH (C10-C32) results if less than the action level were qualified (B), for method blank contamination. Sample MT-SS19-0-2 was qualified for method blank contamination.

- Positive results reported below the quantitation limit but above the method detection limit were qualified as estimated, (J).

Notes

The following laboratory VOC contaminants were detected in the method blanks at the following maximum concentrations affecting samples as listed.

| Analytes | Maximum Conc. | Action Level |
|---|---|---|
| 1,2,3-Trichlorobenzene [1] | 0.580 µg/l | 2.900 µg/l |
| Naphthalene [1] | 0.761 µg/l | 3.805 µg/l |
| Tert-Butyl alcohol. [1] | 4.05 µg/l | 20.25 µg/l |

[1] Method blank MB 240-50786/5 affecting sample TB-070912.

An action level of five times the maximum level for the contaminants has been used to evaluate sample data for blank contamination. Sample aliquot and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. The sample was not qualified for method blank contamination.

The VOC CCV %Ds were greater than the 20% and less than the 50% quality control limit for tert-butyl alcohol, vinyl acetate, 1,2,4-trichlorobenzene, hexachlorobutadiene, naphthalene, and 1,2,3-trichlorobenzene for instrument A3UX10 on 07/13/12 @ 14:45 affecting the sample listed.

**Affected Sample:** TB-070912

**Action:** The sample analytes results for 1,2,4-trichlorobenzene, hexachlorobutadiene, naphthalene, and 1,2,3-trichlorobenzene were non-detected and were not qualified. The tert-butyl alcohol and vinyl acetate non-detected results were rejected for RRF criteria non-compliances and no further validation action was necessary.

The VOC CCV %Ds were greater than the 20% and less than the 50% quality control limit for dichlorodifluoromethane, methylene chloride, vinyl acetate, 1,1,1-trichloroethane, 1,1-dichloropropene, tetrachloroethene, n-propylbenzene, and n-butylbenzene for instrument A3UX8 on 07/12/12 @ 00:20 affecting the samples listed.

**Affected Sample:**

| | | |
|---|---|---|
| MT-SS19-0-2 | MT-SS19-8-10 | MT-SS20-0-2 |
| MT-SS20-8-10 | MT-SS21-0-2 | MT-SS21-8-10 |

**Action:** The sample analytes results for dichlorodifluoromethane, methylene chloride, 1,1,1-trichloroethane, 1,1-dichloropropene, tetrachloroethene, n-propylbenzene, and n-butylbenzene

were non-detected and were not qualified. The vinyl acetate non-detected results were rejected for RRF criteria non-compliances and no further validation action was necessary.

The VOC CCV %D was greater than the 20% and greater than the 50% quality control limit for 2-chloroethyl vinyl ether for instrument A3UX8 on 07/12/12 @ 00:20 affecting the samples listed.

**Affected Sample:**

| | | |
|---|---|---|
| MT-SS19-0-2 | MT-SS19-8-10 | MT-SS20-0-2 |
| MT-SS20-8-10 | MT-SS21-0-2 | MT-SS21-8-10 |

**Action:** The 2-chloroethyl vinyl ether non-detected results were rejected for an RRF criteria non-compliance and no further validation action was necessary.

The VOC laboratory control sample %R was greater than the quality control limit for acetone for batch 240-50546 affecting all the soil samples. No validation action was taken as all samples had non-detected acetone results.

The VOC MS and the MSD for a spiked sample from another SDG (240-13086-E-8) had %Rs for 2-chloroethyl vinyl ether and tert-butyl alcohol were less than the quality control limit (2-chloroethyl vinyl ether at 0%). No validation action was necessary as the sample was not from this SDG.

The SVOC CCV %D was greater than the 20% and less than the 50% quality control limit for 1,4-dioxane for instrument A4HP9 on 07/19/12 @ 07:31 affecting the sample listed.

**Affected Sample:** MT-SS19-0-2

**Action:** The 1,4-dioxane result was non-detected and no further validation action was necessary.

The laboratory reported non-detected sample results to the Method Detection Limit (MDL).

## EXECUTIVE SUMMARY

**Laboratory Performance Issues:** VOC non-detected tert-butyl alcohol, vinyl acetate, 2-chloroethyl vinyl ether, and acetone sample results were rejected due to calibration and CCV RRF criteria non-compliances. The sample VOC, SVOC, and TPH (C10-C32) results were qualified for method blank contamination.

**Other Factors Affecting Data Quality:** Positive results reported below the quantitation limit but above the method detection limit were qualified as estimated, (J). Positive VOC TIC hexane results were qualified estimated presumptively present. The positive TIC octamethyl-cyclotetrasiloxane sample results were rejected as they were attributed to column bleed.

The data for these analyses were reviewed with reference to EPA SW-846 Methods 8260B, 8270D, 8015C, and 8082A, and the Region III EPA Functional Guidelines for Organic Data Validation (9/94).

Tetra Tech
Joseph Kalinyak
Data Validator/Environmental Scientist

Tetra Tech
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:
Appendix A – Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
Appendix C – Support Documentation

# APPENDIX A

## QUALIFIED ANALYTICAL RESULTS

## DATA QUALIFICATION CODE (QUAL CODE)

**Qualifier Codes:**

| | | |
|---|---|---|
| A | = | Lab Blank Contamination |
| B | = | Field Blank Contamination |
| C | = | Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.) |
| C01 | = | GC/MS Tuning Noncompliance |
| D | = | MS/MSD Recovery Noncompliance |
| E | = | LCS/LCSD Recovery Noncompliance |
| F | = | Lab Duplicate Imprecision |
| G | = | Field Duplicate Imprecision |
| H | = | Holding Time Exceedance |
| I | = | ICP Serial Dilution Noncompliance |
| J | = | ICP PDS Recovery Noncompliance; MSA's $r < 0.995$ |
| K | = | ICP Interference - includes ICS % R Noncompliance |
| L | = | Instrument Calibration Range Exceedance |
| M | = | Sample Preservation Noncompliance |
| N | = | Internal Standard Noncompliance |
| N01 | = | Internal Standard Recovery Noncompliance Dioxins |
| N02 | = | Recovery Standard Noncompliance Dioxins |
| N03 | = | Clean-up Standard Noncompliance Dioxins |
| O | = | Poor Instrument Performance (i.e., base-time drifting) |
| P | = | Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics) |
| Q | = | Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.) |
| R | = | Surrogates Recovery Noncompliance |
| S | = | Pesticide/PCB Resolution |
| T | = | % Breakdown Noncompliance for DDT and Endrin |
| U | = | RPD between columns/detectors >40% for positive results determined via GC/HPLC |
| V | = | Non-linear calibrations; correlation coefficient $r < 0.995$ |
| W | = | EMPC result |
| X | = | Signal to noise response drop |
| Y | = | Percent solids <30% |
| Z | = | Uncertainty at 2 sigma deviation is less than sample activity |
| Z1 | = | Tentatively Identified Compound considered presumptively present |
| Z2 | = | Tentatively Identified Compound column bleed |

| PROJ_NO: 04054 | NSAMPLE | TB-070912 |
|---|---|---|
| SDG: 240-13043-1 | LAB_ID | 240-13043-1 |
| FRACTION: OV | SAMP_DATE | 7/9/2012 |
| MEDIA: WATER | QC_TYPE | NM |
| | UNITS | UG/L |
| | PCT_SOLIDS | 0.0 |
| | DUP_OF | |

| PARAMETER | RESULT | VQL | QLCD |
|---|---|---|---|
| 1,1,1,2-TETRACHLOROETHANE | 0.23 | U | |
| 1,1,1-TRICHLOROETHANE | 0.22 | U | |
| 1,1,2,2-TETRACHLOROETHANE | 0.18 | U | |
| 1,1,2-TRICHLOROTRIFLUOROETHANE | 0.28 | U | |
| 1,1-DICHLOROETHANE | 0.15 | U | |
| 1,1-DICHLOROETHENE | 0.19 | U | |
| 1,1-DICHLOROPROPENE | 0.13 | U | |
| 1,2,3-TRICHLOROBENZENE | 0.17 | U | |
| 1,2,3-TRICHLOROPROPANE | 0.43 | U | |
| 1,2,3-TRIMETHYLBENZENE | 0.0059 | U | |
| 1,2,4-TRICHLOROBENZENE | 0.15 | U | |
| 1,2,4-TRIMETHYLBENZENE | 0.12 | U | |
| 1,2-DIBROMO-3-CHLOROPROPANE | 0.67 | U | |
| 1,2-DIBROMOETHANE | 0.24 | U | |
| 1,2-DICHLOROBENZENE | 0.13 | U | |
| 1,2-DICHLOROETHANE | 0.22 | U | |
| 1,2-DICHLOROPROPANE | 0.18 | U | |
| 1,3-DICHLOROBENZENE | 0.14 | U | |
| 1,3-DICHLOROPROPANE | 0.16 | U | |
| 1,4-DICHLOROBENZENE | 0.13 | U | |
| 2,2-DICHLOROPROPANE | 0.13 | U | |
| 2-BUTANONE | 0.57 | U | |
| 2-CHLOROETHYL VINYL ETHER | 0.99 | U | |
| 2-CHLOROTOLUENE | 0.11 | U | |
| 2-HEXANONE | 0.41 | U | |
| 4-CHLOROTOLUENE | 0.18 | U | |
| 4-ISOPROPYLTOLUENE | 0.12 | U | |
| 4-METHYL-2-PENTANONE | 0.32 | U | |
| ACETONE | 1.1 | UR | C |
| BENZENE | 0.13 | U | |
| BROMOBENZENE | 0.13 | U | |
| BROMOCHLOROMETHANE | 0.29 | U | |
| BROMODICHLOROMETHANE | 0.15 | U | |
| BROMOFORM | 0.64 | U | |
| BROMOMETHANE | 0.41 | U | |

| PROJ_NO: 04054 | NSAMPLE | TB-070912 |
|---|---|---|
| SDG: 240-13043-1 | LAB_ID | 240-13043-1 |
| FRACTION: OV | SAMP_DATE | 7/9/2012 |
| MEDIA: WATER | QC_TYPE | NM |
| | UNITS | UG/L |
| | PCT_SOLIDS | 0.0 |
| | DUP_OF | |

| PARAMETER | RESULT | VQL | QLCD |
|---|---|---|---|
| CARBON DISULFIDE | 0.13 | U | |
| CARBON TETRACHLORIDE | 0.13 | U | |
| CHLOROBENZENE | 0.15 | U | |
| CHLORODIBROMOMETHANE | 0.18 | U | |
| CHLOROETHANE | 0.29 | U | |
| CHLOROFORM | 0.16 | U | |
| CHLOROMETHANE | 0.3 | U | |
| CIS-1,2-DICHLOROETHENE | 0.17 | U | |
| CIS-1,3-DICHLOROPROPENE | 0.14 | U | |
| DIBROMOMETHANE | 0.28 | U | |
| DICHLORODIFLUOROMETHANE | 0.31 | U | |
| DIISOPROPYL ETHER | 1.5 | U | |
| ETHYL TERT-BUTYL ETHER | 0.11 | U | |
| ETHYLBENZENE | 0.17 | U | |
| HEXACHLOROBUTADIENE | 0.3 | U | |
| ISOPROPYLBENZENE | 0.13 | U | |
| M+P-XYLENES | 0.24 | U | |
| METHYL TERT-BUTYL ETHER | 0.17 | U | |
| METHYLENE CHLORIDE | 0.33 | U | |
| NAPHTHALENE | 0.24 | U | |
| N-BUTYLBENZENE | 0.12 | U | |
| N-PROPYLBENZENE | 0.14 | U | |
| O-XYLENE | 0.14 | U | |
| SEC-BUTYLBENZENE | 0.13 | U | |
| STYRENE | 0.11 | U | |
| TERT-AMYL METHYL ETHER | 0.067 | U | |
| TERT-BUTYLBENZENE | 0.13 | U | |
| TERTIARY-BUTYL ALCOHOL | 3.9 | UR | C |
| TETRACHLOROETHENE | 0.29 | U | |
| TOLUENE | 0.13 | U | |
| TOTAL XYLENES | 0.28 | U | |
| TRANS-1,2-DICHLOROETHENE | 0.19 | U | |
| TRANS-1,3-DICHLOROPROPENE | 0.19 | U | |
| TRICHLOROETHENE | 0.17 | U | |
| TRICHLOROFLUOROMETHANE | 0.21 | U | |

| | | | | |
|---|---|---|---|---|
| **PROJ_NO: 04054** | NSAMPLE | TB-070912 | | |
| **SDG: 240-13043-1** | LAB_ID | 240-13043-1 | | |
| **FRACTION: OV** | SAMP_DATE | 7/9/2012 | | |
| **MEDIA: WATER** | QC_TYPE | NM | | |
| | UNITS | UG/L | | |
| | PCT_SOLIDS | 0.0 | | |
| | DUP_OF | | | |
| PARAMETER | | RESULT | VQL | QLCD |
| VINYL ACETATE | | 0.19 | UR | C |
| VINYL CHLORIDE | | 0.22 | U | |

| PROJ_NO: 04054 | NSAMPLE | MT-SS19-0-2 | | | MT-SS19-8-10 | | | MT-SS20-0-2 | | | MT-SS20-8-10 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-13043-1 | LAB_ID | 240-13043-2 | | | 240-13043-3 | | | 240-13043-4 | | | 240-13043-5 | | |
| FRACTION: OV | SAMP_DATE | 7/10/2012 | | | 7/10/2012 | | | 7/10/2012 | | | 7/10/2012 | | |
| MEDIA: SOIL | QC_TYPE | NM | | | NM | | | NM | | | NM | | |
| | UNITS | UG/KG | | | UG/KG | | | UG/KG | | | UG/KG | | |
| | PCT_SOLIDS | 83.8 | | | 85.8 | | | 85.3 | | | 82.2 | | |
| | DUP_OF | | | | | | | | | | | | |
| PARAMETER | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| 1,1,1,2-TETRACHLOROETHANE | 0.55 | U | | 0.6 | U | | 0.54 | U | | 0.56 | U | |
| 1,1,1-TRICHLOROETHANE | 0.5 | U | | 0.55 | U | | 0.49 | U | | 0.51 | U | |
| 1,1,2,2-TETRACHLOROETHANE | 0.3 | U | | 0.33 | U | | 0.3 | U | | 0.31 | U | |
| 1,1,2-TRICHLOROTRIFLUOROETHANE | 1.2 | U | | 1.3 | U | | 1.1 | U | | 1.2 | U | |
| 1,1-DICHLOROETHANE | 0.32 | U | | 0.35 | U | | 0.32 | U | | 0.33 | U | |
| 1,1-DICHLOROETHENE | 0.46 | U | | 0.51 | U | | 0.46 | U | | 0.47 | U | |
| 1,1-DICHLOROPROPENE | 0.27 | U | | 0.29 | U | | 0.26 | U | | 0.27 | U | |
| 1,2,3-TRICHLOROBENZENE | 0.34 | U | | 0.37 | U | | 0.33 | U | | 0.35 | U | |
| 1,2,3-TRICHLOROPROPANE | 0.8 | U | | 0.88 | U | | 0.79 | U | | 0.82 | U | |
| 1,2,3-TRIMETHYLBENZENE | 0.15 | U | | 0.17 | U | | 0.15 | U | | 0.15 | U | |
| 1,2,4-TRICHLOROBENZENE | 0.24 | U | | 0.26 | U | | 0.24 | U | | 0.25 | U | |
| 1,2,4-TRIMETHYLBENZENE | 0.58 | U | | 0.63 | U | | 0.57 | U | | 0.59 | U | |
| 1,2-DIBROMO-3-CHLOROPROPANE | 1.2 | U | | 1.3 | U | | 1.1 | U | | 1.2 | U | |
| 1,2-DIBROMOETHANE | 0.45 | U | | 0.49 | U | | 0.44 | U | | 0.45 | U | |
| 1,2-DICHLOROBENZENE | 0.32 | U | | 0.35 | U | | 0.32 | U | | 0.33 | U | |
| 1,2-DICHLOROETHANE | 0.3 | U | | 0.33 | U | | 0.3 | U | | 0.31 | U | |
| 1,2-DICHLOROPROPANE | 0.61 | U | | 0.67 | U | | 0.6 | U | | 0.63 | U | |
| 1,3-DICHLOROBENZENE | 0.31 | U | | 0.34 | U | | 0.31 | U | | 0.32 | U | |
| 1,3-DICHLOROPROPANE | 0.3 | U | | 0.33 | U | | 0.3 | U | | 0.31 | U | |
| 1,4-DICHLOROBENZENE | 0.59 | U | | 0.64 | U | | 0.58 | U | | 0.6 | U | |
| 2,2-DICHLOROPROPANE | 0.84 | U | | 0.92 | U | | 0.82 | U | | 0.85 | U | |
| 2-BUTANONE | 1.2 | U | | 1.4 | U | | 1.2 | U | | 1.3 | U | |
| 2-CHLOROETHYL VINYL ETHER | 1.2 | UR | C | 1.4 | UR | C | 1.2 | UR | C | 1.3 | UR | C |
| 2-CHLOROTOLUENE | 0.36 | U | | 0.39 | U | | 0.35 | U | | 0.36 | U | |
| 2-HEXANONE | 0.56 | U | | 0.61 | U | | 0.55 | U | | 0.57 | U | |
| 4-CHLOROTOLUENE | 0.36 | U | | 0.4 | U | | 0.36 | U | | 0.37 | U | |
| 4-ISOPROPYLTOLUENE | 0.19 | U | | 0.2 | U | | 0.18 | U | | 0.19 | U | |
| 4-METHYL-2-PENTANONE | 0.48 | U | | 0.53 | U | | 0.47 | U | | 0.49 | U | |
| ACETONE | 5.6 | U | | 6.1 | U | | 5.5 | U | | 5.7 | U | |
| BENZENE | 0.2 | U | | 0.22 | U | | 0.2 | U | | 0.21 | U | |
| BROMOBENZENE | 0.29 | U | | 0.32 | U | | 0.29 | U | | 0.3 | U | |
| BROMOCHLOROMETHANE | 0.63 | U | | 0.69 | U | | 0.62 | U | | 0.64 | U | |
| BROMODICHLOROMETHANE | 0.25 | U | | 0.27 | U | | 0.25 | U | | 0.25 | U | |
| BROMOFORM | 0.29 | U | | 0.32 | U | | 0.29 | U | | 0.3 | U | |
| BROMOMETHANE | 0.48 | U | | 0.53 | U | | 0.47 | U | | 0.49 | U | |

| PROJ_NO: 04054 | NSAMPLE | MT-SS21-0-2 | | | MT-SS21-8-10 | | |
|---|---|---|---|---|---|---|---|
| SDG: 240-13043-1 | LAB_ID | 240-13043-6 | | | 240-13043-7 | | |
| FRACTION: OV | SAMP_DATE | 7/10/2012 | | | 7/10/2012 | | |
| MEDIA: SOIL | QC_TYPE | NM | | | NM | | |
| | UNITS | UG/KG | | | UG/KG | | |
| | PCT_SOLIDS | 84.8 | | | 85.0 | | |
| | DUP_OF | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| 1,1,1,2-TETRACHLOROETHANE | | 0.51 | U | | 0.61 | U | |
| 1,1,1-TRICHLOROETHANE | | 0.46 | U | | 0.55 | U | |
| 1,1,2,2-TETRACHLOROETHANE | | 0.28 | U | | 0.34 | U | |
| 1,1,2-TRICHLOROTRIFLUOROETHANE | | 1.1 | U | | 1.3 | U | |
| 1,1-DICHLOROETHANE | | 0.29 | U | | 0.36 | U | |
| 1,1-DICHLOROETHENE | | 0.43 | U | | 0.51 | U | |
| 1,1-DICHLOROPROPENE | | 0.25 | U | | 0.3 | U | |
| 1,2,3-TRICHLOROBENZENE | | 0.31 | U | | 0.38 | U | |
| 1,2,3-TRICHLOROPROPANE | | 0.74 | U | | 0.89 | U | |
| 1,2,3-TRIMETHYLBENZENE | | 0.14 | U | | 0.17 | U | |
| 1,2,4-TRICHLOROBENZENE | | 0.22 | U | | 0.27 | U | |
| 1,2,4-TRIMETHYLBENZENE | | 0.53 | U | | 0.64 | U | |
| 1,2-DIBROMO-3-CHLOROPROPANE | | 1.1 | U | | 1.3 | U | |
| 1,2-DIBROMOETHANE | | 0.41 | U | | 0.49 | U | |
| 1,2-DICHLOROBENZENE | | 0.29 | U | | 0.36 | U | |
| 1,2-DICHLOROETHANE | | 0.28 | U | | 0.34 | U | |
| 1,2-DICHLOROPROPANE | | 0.56 | U | | 0.68 | U | |
| 1,3-DICHLOROBENZENE | | 0.29 | U | | 0.35 | U | |
| 1,3-DICHLOROPROPANE | | 0.28 | U | | 0.34 | U | |
| 1,4-DICHLOROBENZENE | | 0.54 | U | | 0.65 | U | |
| 2,2-DICHLOROPROPANE | | 0.77 | U | | 0.93 | U | |
| 2-BUTANONE | | 1.1 | U | | 1.4 | U | |
| 2-CHLOROETHYL VINYL ETHER | | 1.1 | UR | C | 1.4 | UR | C |
| 2-CHLOROTOLUENE | | 0.33 | U | | 0.4 | U | |
| 2-HEXANONE | | 0.52 | U | | 0.62 | U | |
| 4-CHLOROTOLUENE | | 0.34 | U | | 0.41 | U | |
| 4-ISOPROPYLTOLUENE | | 0.17 | U | | 0.21 | U | |
| 4-METHYL-2-PENTANONE | | 0.44 | U | | 0.53 | U | |
| ACETONE | | 5.2 | U | | 6.2 | U | |
| BENZENE | | 0.19 | U | | 0.23 | U | |
| BROMOBENZENE | | 0.27 | U | | 0.33 | U | |
| BROMOCHLOROMETHANE | | 0.58 | U | | 0.7 | U | |
| BROMODICHLOROMETHANE | | 0.23 | U | | 0.28 | U | |
| BROMOFORM | | 0.27 | U | | 0.33 | U | |
| BROMOMETHANE | | 0.44 | U | | 0.53 | U | |

| PROJ_NO: 04054 | NSAMPLE | MT-SS19-0-2 | | | MT-SS19-8-10 | | | MT-SS20-0-2 | | | MT-SS20-8-10 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-13043-1 | LAB_ID | 240-13043-2 | | | 240-13043-3 | | | 240-13043-4 | | | 240-13043-5 | | |
| FRACTION: OV | SAMP_DATE | 7/10/2012 | | | 7/10/2012 | | | 7/10/2012 | | | 7/10/2012 | | |
| MEDIA: SOIL | QC_TYPE | NM | | | NM | | | NM | | | NM | | |
| | UNITS | UG/KG | | | UG/KG | | | UG/KG | | | UG/KG | | |
| | PCT_SOLIDS | 83.8 | | | 85.8 | | | 85.3 | | | 82.2 | | |
| | DUP_OF | | | | | | | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| CARBON DISULFIDE | | 0.39 | U | | 0.43 | U | | 0.39 | U | | 0.4 | U | |
| CARBON TETRACHLORIDE | | 0.33 | U | | 0.36 | U | | 0.32 | U | | 0.34 | U | |
| CHLOROBENZENE | | 0.29 | U | | 0.32 | U | | 0.29 | U | | 0.3 | U | |
| CHLORODIBROMOMETHANE | | 0.49 | U | | 0.54 | U | | 0.48 | U | | 0.5 | U | |
| CHLOROETHANE | | 0.77 | U | | 0.84 | U | | 0.75 | U | | 0.78 | U | |
| CHLOROFORM | | 0.26 | U | | 0.28 | U | | 0.25 | U | | 0.26 | U | |
| CHLOROMETHANE | | 0.36 | U | | 0.4 | U | | 0.36 | U | | 0.37 | U | |
| CIS-1,2-DICHLOROETHENE | | 0.32 | U | | 0.35 | U | | 0.32 | U | | 0.33 | U | |
| CIS-1,3-DICHLOROPROPENE | | 0.3 | U | | 0.33 | U | | 0.3 | U | | 0.31 | U | |
| CYCLOTETRASILOXANE, OCTAMETHYL- | | 11 | R | Z2 | 5.3 | R | Z2 | 16 | R | Z2 | 7.6 | R | Z2 |
| DIBROMOMETHANE | | 0.56 | U | | 0.61 | U | | 0.55 | U | | 0.57 | U | |
| DICHLORODIFLUOROMETHANE | | 0.45 | U | | 0.49 | U | | 0.44 | U | | 0.45 | U | |
| DIISOPROPYL ETHER | | 1.3 | U | | 1.5 | U | | 1.3 | U | | 1.4 | U | |
| ETHYL TERT-BUTYL ETHER | | 0.2 | U | | 0.21 | U | | 0.19 | U | | 0.2 | U | |
| ETHYLBENZENE | | 0.23 | U | | 0.25 | U | | 0.23 | U | | 0.24 | U | |
| HEXACHLOROBUTADIENE | | 1.1 | U | | 1.2 | U | | 1.1 | U | | 1.1 | U | |
| HEXANE | | 2.6 | J | Z1 | 2.6 | J | Z1 | 1.7 | J | Z1 | 1.6 | J | Z1 |
| ISOPROPYLBENZENE | | 0.14 | U | | 0.16 | U | | 0.14 | U | | 0.15 | U | |
| M+P-XYLENES | | 1.1 | U | | 1.2 | U | | 1.1 | U | | 1.1 | U | |
| METHYL TERT-BUTYL ETHER | | 0.38 | U | | 0.42 | U | | 0.38 | U | | 0.39 | U | |
| METHYLENE CHLORIDE | | 1.9 | B | A | 3 | B | A | 1.7 | B | A | 0.78 | B | A |
| NAPHTHALENE | | 0.17 | U | | 1.6 | B | A | 0.24 | B | A | 0.17 | U | |
| N-BUTYLBENZENE | | 0.2 | U | | 0.22 | U | | 0.2 | U | | 0.21 | U | |
| N-PROPYLBENZENE | | 0.36 | U | | 0.39 | U | | 0.35 | U | | 0.36 | U | |
| O-XYLENE | | 0.31 | U | | 0.34 | U | | 0.31 | U | | 0.32 | U | |
| SEC-BUTYLBENZENE | | 0.16 | U | | 0.18 | U | | 0.16 | U | | 0.16 | U | |
| STYRENE | | 0.13 | U | | 0.15 | U | | 0.13 | U | | 0.14 | U | |
| TERT-AMYL METHYL ETHER | | 0.33 | U | | 0.36 | U | | 0.32 | U | | 0.34 | U | |
| TERT-BUTYLBENZENE | | 0.26 | U | | 0.28 | U | | 0.25 | U | | 0.26 | U | |
| TERTIARY-BUTYL ALCOHOL | | 6.8 | UR | C | 7.4 | UR | C | 6.7 | UR | C | 6.9 | UR | C |
| TETRACHLOROETHENE | | 0.46 | U | | 0.51 | U | | 0.46 | U | | 0.47 | U | |
| TOLUENE | | 0.24 | U | | 0.26 | U | | 0.24 | U | | 0.25 | U | |
| TOTAL XYLENES | | 0.6 | U | | 0.65 | U | | 0.59 | U | | 0.61 | U | |
| TRANS-1,2-DICHLOROETHENE | | 0.36 | U | | 0.4 | U | | 0.36 | U | | 0.37 | U | |
| TRANS-1,3-DICHLOROPROPENE | | 0.48 | U | | 0.53 | U | | 0.47 | U | | 0.49 | U | |

| PROJ_NO: 04054 | NSAMPLE | MT-SS21-0-2 | | | MT-SS21-8-10 | | |
|---|---|---|---|---|---|---|---|
| SDG: 240-13043-1 | LAB_ID | 240-13043-6 | | | 240-13043-7 | | |
| FRACTION: OV | SAMP_DATE | 7/10/2012 | | | 7/10/2012 | | |
| MEDIA: SOIL | QC_TYPE | NM | | | NM | | |
| | UNITS | UG/KG | | | UG/KG | | |
| | PCT_SOLIDS | 84.8 | | | 85.0 | | |
| | DUP_OF | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| CARBON DISULFIDE | | 0.36 | U | | 0.43 | U | |
| CARBON TETRACHLORIDE | | 0.3 | U | | 4.4 | J | P |
| CHLOROBENZENE | | 0.27 | U | | 0.33 | U | |
| CHLORODIBROMOMETHANE | | 0.45 | U | | 0.54 | U | |
| CHLOROETHANE | | 0.7 | U | | 0.85 | U | |
| CHLOROFORM | | 0.24 | U | | 0.29 | U | |
| CHLOROMETHANE | | 0.34 | U | | 0.41 | U | |
| CIS-1,2-DICHLOROETHENE | | 0.29 | U | | 0.36 | U | |
| CIS-1,3-DICHLOROPROPENE | | 0.28 | U | | 0.34 | U | |
| CYCLOTETRASILOXANE, OCTAMETHYL- | | 12 | R | Z2 | 7.4 | R | Z2 |
| DIBROMOMETHANE | | 0.52 | U | | 0.62 | U | |
| DICHLORODIFLUOROMETHANE | | 0.41 | U | | 0.49 | U | |
| DIISOPROPYL ETHER | | 1.2 | U | | 1.5 | U | |
| ETHYL TERT-BUTYL ETHER | | 0.18 | U | | 0.22 | U | |
| ETHYLBENZENE | | 0.21 | U | | 0.26 | U | |
| HEXACHLOROBUTADIENE | | 0.98 | U | | 1.2 | U | |
| HEXANE | | 2.1 | J | Z1 | 1.6 | J | Z1 |
| ISOPROPYLBENZENE | | 0.13 | U | | 0.16 | U | |
| M+P-XYLENES | | 0.98 | U | | 1.2 | U | |
| METHYL TERT-BUTYL ETHER | | 0.35 | U | | 0.42 | U | |
| METHYLENE CHLORIDE | | 1 | B | A | 0.66 | B | A |
| NAPHTHALENE | | 0.16 | U | | 0.19 | U | |
| N-BUTYLBENZENE | | 0.19 | U | | 0.23 | U | |
| N-PROPYLBENZENE | | 0.33 | U | | 0.4 | U | |
| O-XYLENE | | 0.29 | U | | 0.35 | U | |
| SEC-BUTYLBENZENE | | 0.15 | U | | 0.18 | U | |
| STYRENE | | 0.12 | U | | 0.15 | U | |
| TERT-AMYL METHYL ETHER | | 0.3 | U | | 0.37 | U | |
| TERT-BUTYLBENZENE | | 0.24 | U | | 0.29 | U | |
| TERTIARY-BUTYL ALCOHOL | | 6.2 | UR | C | 7.5 | UR | C |
| TETRACHLOROETHENE | | 0.43 | U | | 0.51 | U | |
| TOLUENE | | 0.22 | U | | 0.27 | U | |
| TOTAL XYLENES | | 0.55 | U | | 0.66 | U | |
| TRANS-1,2-DICHLOROETHENE | | 0.34 | U | | 0.41 | U | |
| TRANS-1,3-DICHLOROPROPENE | | 0.44 | U | | 0.53 | U | |

| PROJ_NO: 04054 | NSAMPLE | MT-SS19-0-2 | | | MT-SS19-8-10 | | | MT-SS20-0-2 | | | MT-SS20-8-10 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-13043-1 | LAB_ID | 240-13043-2 | | | 240-13043-3 | | | 240-13043-4 | | | 240-13043-5 | | |
| FRACTION: OV | SAMP_DATE | 7/10/2012 | | | 7/10/2012 | | | 7/10/2012 | | | 7/10/2012 | | |
| MEDIA: SOIL | QC_TYPE | NM | | | NM | | | NM | | | NM | | |
| | UNITS | UG/KG | | | UG/KG | | | UG/KG | | | UG/KG | | |
| | PCT_SOLIDS | 83.8 | | | 85.8 | | | 85.3 | | | 82.2 | | |
| | DUP_OF | | | | | | | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| TRICHLOROETHENE | | 0.37 | U | | 0.41 | U | | 0.37 | U | | 0.38 | U | |
| TRICHLOROFLUOROMETHANE | | 0.3 | U | | 0.33 | U | | 0.3 | U | | 0.31 | U | |
| VINYL ACETATE | | 0.22 | UR | C | 0.24 | UR | C | 0.22 | UR | C | 0.23 | UR | C |
| VINYL CHLORIDE | | 0.35 | U | | 0.38 | U | | 0.34 | U | | 0.35 | U | |

| PROJ_NO: 04054 | NSAMPLE | MT-SS21-0-2 | | | MT-SS21-8-10 | | |
|---|---|---|---|---|---|---|---|
| SDG: 240-13043-1 | LAB_ID | 240-13043-6 | | | 240-13043-7 | | |
| FRACTION: OV | SAMP_DATE | 7/10/2012 | | | 7/10/2012 | | |
| MEDIA: SOIL | QC_TYPE | NM | | | NM | | |
| | UNITS | UG/KG | | | UG/KG | | |
| | PCT_SOLIDS | 84.8 | | | 85.0 | | |
| | DUP_OF | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| TRICHLOROETHENE | | 0.34 | U | | 110 | | |
| TRICHLOROFLUOROMETHANE | | 0.28 | U | | 0.34 | U | |
| VINYL ACETATE | | 0.2 | UR | C | 0.25 | UR | C |
| VINYL CHLORIDE | | 0.32 | U | | 0.39 | U | |

| PROJ_NO: 04054 | NSAMPLE | MT-SS19-0-2 | | | MT-SS19-8-10 | | | MT-SS20-0-2 | | | MT-SS20-8-10 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-13043-1 | LAB_ID | 240-13043-2 | | | 240-13043-3 | | | 240-13043-4 | | | 240-13043-5 | | |
| FRACTION: OS | SAMP_DATE | 7/9/2012 | | | 7/9/2012 | | | 7/9/2012 | | | 7/9/2012 | | |
| MEDIA: SOIL | QC_TYPE | NM | | | NM | | | NM | | | NM | | |
| | UNITS | UG/KG | | | UG/KG | | | UG/KG | | | UG/KG | | |
| | PCT_SOLIDS | 83.8 | | | 85.8 | | | 85.3 | | | 82.2 | | |
| | DUP_OF | | | | | | | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| 1,1-BIPHENYL | | 33 | U | | 31 | U | | 32 | U | | 33 | U | |
| 1,4-DIOXANE | | 27 | U | | 26 | U | | 26 | U | | 27 | U | |
| 2,2'-OXYBIS(1-CHLOROPROPANE) | | 12 | U | | 11 | U | | 11 | U | | 12 | U | |
| 2,4,5-TRICHLOROPHENOL | | 30 | U | | 29 | U | | 29 | U | | 30 | U | |
| 2,4,6-TRICHLOROPHENOL | | 97 | U | | 93 | U | | 94 | U | | 97 | U | |
| 2,4-DICHLOROPHENOL | | 24 | U | | 23 | U | | 23 | U | | 24 | U | |
| 2,4-DIMETHYLPHENOL | | 24 | U | | 23 | U | | 23 | U | | 24 | U | |
| 2,4-DINITROPHENOL | | 97 | U | | 93 | U | | 94 | U | | 97 | U | |
| 2,4-DINITROTOLUENE | | 33 | U | | 31 | U | | 32 | U | | 33 | U | |
| 2,6-DINITROTOLUENE | | 25 | U | | 24 | U | | 25 | U | | 25 | U | |
| 2-CHLORONAPHTHALENE | | 4 | U | | 3.8 | U | | 3.9 | U | | 4 | U | |
| 2-CHLOROPHENOL | | 33 | U | | 31 | U | | 32 | U | | 33 | U | |
| 2-METHYLNAPHTHALENE | | 4 | U | | 3.8 | U | | 3.9 | U | | 4 | U | |
| 2-METHYLPHENOL | | 97 | U | | 93 | U | | 94 | U | | 97 | U | |
| 2-NITROANILINE | | 11 | U | | 11 | U | | 11 | U | | 11 | U | |
| 2-NITROPHENOL | | 33 | U | | 31 | U | | 32 | U | | 33 | U | |
| 3&4-METHYLPHENOL | | 24 | U | | 23 | U | | 23 | U | | 24 | U | |
| 3,3'-DICHLOROBENZIDINE | | 22 | U | | 21 | U | | 21 | U | | 22 | U | |
| 3-NITROANILINE | | 19 | U | | 19 | U | | 19 | U | | 19 | U | |
| 4,6-DINITRO-2-METHYLPHENOL | | 97 | U | | 93 | U | | 94 | U | | 97 | U | |
| 4-BROMOPHENYL PHENYL ETHER | | 16 | U | | 15 | U | | 15 | U | | 16 | U | |
| 4-CHLORO-3-METHYLPHENOL | | 25 | U | | 24 | U | | 25 | U | | 25 | U | |
| 4-CHLOROANILINE | | 21 | U | | 20 | U | | 20 | U | | 21 | U | |
| 4-CHLOROPHENYL PHENYL ETHER | | 16 | U | | 15 | U | | 15 | U | | 16 | U | |
| 4-NITROANILINE | | 32 | U | | 30 | U | | 30 | U | | 32 | U | |
| 4-NITROPHENOL | | 97 | U | | 93 | U | | 94 | U | | 97 | U | |
| ACENAPHTHENE | | 4 | U | | 3.8 | U | | 3.9 | U | | 4 | U | |
| ACENAPHTHYLENE | | 4 | U | | 3.8 | U | | 3.9 | U | | 4 | U | |
| ACETOPHENONE | | 11 | U | | 11 | U | | 11 | U | | 11 | U | |
| ANTHRACENE | | 4 | U | | 3.8 | U | | 3.9 | U | | 4 | U | |
| ATRAZINE | | 11 | U | | 11 | U | | 11 | U | | 11 | U | |
| BENZALDEHYDE | | 15 | U | | 14 | U | | 14 | U | | 15 | U | |
| BENZO(A)ANTHRACENE | | 4 | U | | 3.8 | U | | 3.9 | U | | 11 | | |
| BENZO(A)PYRENE | | 4 | U | | 6.6 | J | P | 3.9 | U | | 16 | | |
| BENZO(B)FLUORANTHENE | | 4 | U | | 6.3 | J | P | 3.9 | U | | 15 | | |

| PROJ_NO: 04054 | NSAMPLE | MT-SS21-0-2 | | | MT-SS21-8-10 | | |
|---|---|---|---|---|---|---|---|
| SDG: 240-13043-1 | LAB_ID | 240-13043-6 | | | 240-13043-7 | | |
| FRACTION: OS | SAMP_DATE | 7/9/2012 | | | 7/9/2012 | | |
| MEDIA: SOIL | QC_TYPE | NM | | | NM | | |
| | UNITS | UG/KG | | | UG/KG | | |
| | PCT_SOLIDS | 84.8 | | | 85.0 | | |
| | DUP_OF | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| 1,1-BIPHENYL | | 32 | U | | 32 | U | |
| 1,4-DIOXANE | | 26 | U | | 26 | U | |
| 2,2'-OXYBIS(1-CHLOROPROPANE) | | 11 | U | | 11 | U | |
| 2,4,5-TRICHLOROPHENOL | | 29 | U | | 29 | U | |
| 2,4,6-TRICHLOROPHENOL | | 93 | U | | 94 | U | |
| 2,4-DICHLOROPHENOL | | 23 | U | | 24 | U | |
| 2,4-DIMETHYLPHENOL | | 23 | U | | 24 | U | |
| 2,4-DINITROPHENOL | | 93 | U | | 94 | U | |
| 2,4-DINITROTOLUENE | | 32 | U | | 32 | U | |
| 2,6-DINITROTOLUENE | | 25 | U | | 25 | U | |
| 2-CHLORONAPHTHALENE | | 3.9 | U | | 3.9 | U | |
| 2-CHLOROPHENOL | | 32 | U | | 32 | U | |
| 2-METHYLNAPHTHALENE | | 3.9 | U | | 3.9 | U | |
| 2-METHYLPHENOL | | 93 | U | | 94 | U | |
| 2-NITROANILINE | | 11 | U | | 11 | U | |
| 2-NITROPHENOL | | 32 | U | | 32 | U | |
| 3&4-METHYLPHENOL | | 23 | U | | 24 | U | |
| 3,3'-DICHLOROBENZIDINE | | 21 | U | | 21 | U | |
| 3-NITROANILINE | | 19 | U | | 19 | U | |
| 4,6-DINITRO-2-METHYLPHENOL | | 93 | U | | 94 | U | |
| 4-BROMOPHENYL PHENYL ETHER | | 15 | U | | 15 | U | |
| 4-CHLORO-3-METHYLPHENOL | | 25 | U | | 25 | U | |
| 4-CHLOROANILINE | | 20 | U | | 20 | U | |
| 4-CHLOROPHENYL PHENYL ETHER | | 15 | U | | 15 | U | |
| 4-NITROANILINE | | 30 | U | | 31 | U | |
| 4-NITROPHENOL | | 93 | U | | 94 | U | |
| ACENAPHTHENE | | 3.9 | U | | 3.9 | U | |
| ACENAPHTHYLENE | | 3.9 | U | | 3.9 | U | |
| ACETOPHENONE | | 11 | U | | 11 | U | |
| ANTHRACENE | | 3.9 | U | | 3.9 | U | |
| ATRAZINE | | 11 | U | | 11 | U | |
| BENZALDEHYDE | | 14 | U | | 14 | U | |
| BENZO(A)ANTHRACENE | | 6 | J | P | 9.3 | | |
| BENZO(A)PYRENE | | 4.9 | J | P | 8.2 | | |
| BENZO(B)FLUORANTHENE | | 5.6 | J | P | 8.7 | | |

| PROJ_NO: 04054 | NSAMPLE | MT-SS19-0-2 | | | MT-SS19-8-10 | | | MT-SS20-0-2 | | | MT-SS20-8-10 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-13043-1 | LAB_ID | 240-13043-2 | | | 240-13043-3 | | | 240-13043-4 | | | 240-13043-5 | | |
| FRACTION: OS | SAMP_DATE | 7/9/2012 | | | 7/9/2012 | | | 7/9/2012 | | | 7/9/2012 | | |
| MEDIA: SOIL | QC_TYPE | NM | | | NM | | | NM | | | NM | | |
| | UNITS | UG/KG | | | UG/KG | | | UG/KG | | | UG/KG | | |
| | PCT_SOLIDS | 83.8 | | | 85.8 | | | 85.3 | | | 82.2 | | |
| | DUP_OF | | | | | | | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| BENZO(G,H,I)PERYLENE | | 4 | U | | 3.8 | U | | 3.9 | U | | 15 | | |
| BENZO(K)FLUORANTHENE | | 4 | U | | 4.9 | J | P | 3.9 | U | | 7.2 | J | P |
| BIS(2-CHLOROETHOXY)METHANE | | 27 | U | | 26 | U | | 26 | U | | 27 | U | |
| BIS(2-CHLOROETHYL)ETHER | | 2.4 | U | | 2.3 | U | | 2.3 | U | | 2.4 | U | |
| BIS(2-ETHYLHEXYL)PHTHALATE | | 23 | U | | 26 | B | A | 34 | B | A | 28 | B | A |
| BUTYL BENZYL PHTHALATE | | 12 | U | | 12 | U | | 12 | U | | 12 | U | |
| CAPROLACTAM | | 45 | U | | 43 | U | | 43 | U | | 45 | U | |
| CARBAZOLE | | 33 | U | | 31 | U | | 32 | U | | 33 | U | |
| CHRYSENE | | 1.3 | U | | 1.3 | U | | 1.3 | U | | 11 | | |
| DIBENZO(A,H)ANTHRACENE | | 4 | U | | 3.8 | U | | 3.9 | U | | 4 | U | |
| DIBENZOFURAN | | 4 | U | | 3.8 | U | | 3.9 | U | | 4 | U | |
| DIETHYL PHTHALATE | | 19 | U | | 19 | U | | 19 | U | | 19 | U | |
| DIMETHYL PHTHALATE | | 21 | U | | 20 | U | | 20 | U | | 21 | U | |
| DI-N-BUTYL PHTHALATE | | 18 | U | | 34 | J | P | 24 | J | P | 18 | U | |
| DI-N-OCTYL PHTHALATE | | 33 | U | | 31 | U | | 32 | U | | 33 | U | |
| FLUORANTHENE | | 4 | U | | 15 | | | 5.7 | J | P | 13 | | |
| FLUORENE | | 4 | U | | 3.8 | U | | 3.9 | U | | 4 | U | |
| HEXACHLOROBENZENE | | 2.5 | U | | 2.4 | U | | 2.5 | U | | 2.5 | U | |
| HEXACHLOROBUTADIENE | | 33 | U | | 31 | U | | 32 | U | | 33 | U | |
| HEXACHLOROCYCLOPENTADIENE | | 33 | U | | 31 | U | | 32 | U | | 33 | U | |
| HEXACHLOROETHANE | | 11 | U | | 10 | U | | 11 | U | | 11 | U | |
| INDENO(1,2,3-CD)PYRENE | | 4 | U | | 3.8 | U | | 3.9 | U | | 10 | | |
| ISOPHORONE | | 16 | U | | 15 | U | | 15 | U | | 16 | U | |
| NAPHTHALENE | | 4 | U | | 3.8 | U | | 3.9 | U | | 4 | U | |
| NITROBENZENE | | 2.7 | U | | 2.6 | U | | 2.6 | U | | 2.7 | U | |
| N-NITROSODIMETHYLAMINE | | 19 | U | | 19 | U | | 19 | U | | 19 | U | |
| N-NITROSO-DI-N-PROPYLAMINE | | 33 | U | | 31 | U | | 32 | U | | 33 | U | |
| N-NITROSODIPHENYLAMINE | | 25 | U | | 24 | U | | 25 | U | | 25 | U | |
| PENTACHLOROPHENOL | | 97 | U | | 93 | U | | 94 | U | | 97 | U | |
| PHENANTHRENE | | 4 | U | | 3.8 | U | | 3.9 | U | | 9.4 | | |
| PHENOL | | 33 | U | | 31 | U | | 32 | U | | 33 | U | |
| PYRENE | | 4 | U | | 16 | | | 4.8 | J | P | 19 | | |

| PROJ_NO: 04054 | NSAMPLE | MT-SS21-0-2 | | | MT-SS21-8-10 | | |
|---|---|---|---|---|---|---|---|
| SDG: 240-13043-1 | LAB_ID | 240-13043-6 | | | 240-13043-7 | | |
| FRACTION: OS | SAMP_DATE | 7/9/2012 | | | 7/9/2012 | | |
| MEDIA: SOIL | QC_TYPE | NM | | | NM | | |
| | UNITS | UG/KG | | | UG/KG | | |
| | PCT_SOLIDS | 84.8 | | | 85.0 | | |
| | DUP_OF | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| BENZO(G,H,I)PERYLENE | | 3.9 | U | | 5.4 | J | P |
| BENZO(K)FLUORANTHENE | | 3.9 | U | | 3.9 | U | |
| BIS(2-CHLOROETHOXY)METHANE | | 26 | U | | 26 | U | |
| BIS(2-CHLOROETHYL)ETHER | | 2.3 | U | | 2.4 | U | |
| BIS(2-ETHYLHEXYL)PHTHALATE | | 24 | B | A | 22 | U | |
| BUTYL BENZYL PHTHALATE | | 12 | U | | 12 | U | |
| CAPROLACTAM | | 43 | U | | 44 | U | |
| CARBAZOLE | | 32 | U | | 32 | U | |
| CHRYSENE | | 7 | J | P | 8.4 | | |
| DIBENZO(A,H)ANTHRACENE | | 3.9 | U | | 3.9 | U | |
| DIBENZOFURAN | | 3.9 | U | | 3.9 | U | |
| DIETHYL PHTHALATE | | 19 | U | | 19 | U | |
| DIMETHYL PHTHALATE | | 20 | U | | 20 | U | |
| DI-N-BUTYL PHTHALATE | | 18 | U | | 18 | U | |
| DI-N-OCTYL PHTHALATE | | 32 | U | | 32 | U | |
| FLUORANTHENE | | 14 | | | 11 | | |
| FLUORENE | | 3.9 | U | | 3.9 | U | |
| HEXACHLOROBENZENE | | 2.5 | U | | 2.5 | U | |
| HEXACHLOROBUTADIENE | | 32 | U | | 32 | U | |
| HEXACHLOROCYCLOPENTADIENE | | 32 | U | | 32 | U | |
| HEXACHLOROETHANE | | 11 | U | | 11 | U | |
| INDENO(1,2,3-CD)PYRENE | | 3.9 | U | | 3.9 | U | |
| ISOPHORONE | | 15 | U | | 15 | U | |
| NAPHTHALENE | | 3.9 | U | | 3.9 | U | |
| NITROBENZENE | | 2.6 | U | | 2.6 | U | |
| N-NITROSODIMETHYLAMINE | | 19 | U | | 19 | U | |
| N-NITROSO-DI-N-PROPYLAMINE | | 32 | U | | 32 | U | |
| N-NITROSODIPHENYLAMINE | | 25 | U | | 25 | U | |
| PENTACHLOROPHENOL | | 93 | U | | 94 | U | |
| PHENANTHRENE | | 11 | | | 6.9 | J | P |
| PHENOL | | 32 | U | | 32 | U | |
| PYRENE | | 14 | | | 18 | | |

| PROJ_NO: 04054 | NSAMPLE | MT-SS19-0-2 | | | MT-SS19-8-10 | | | MT-SS20-0-2 | | | MT-SS20-8-10 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-13043-1 | LAB_ID | 240-13043-2 | | | 240-13043-3 | | | 240-13043-4 | | | 240-13043-5 | | |
| FRACTION: PCB | SAMP_DATE | 7/9/2012 | | | 7/9/2012 | | | 7/9/2012 | | | 7/9/2012 | | |
| MEDIA: SOIL | QC_TYPE | NM | | | NM | | | NM | | | NM | | |
| | UNITS | UG/KG | | | UG/KG | | | UG/KG | | | UG/KG | | |
| | PCT_SOLIDS | 83.8 | | | 85.8 | | | 85.3 | | | 82.2 | | |
| | DUP_OF | | | | | | | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| AROCLOR-1016 | | 25 | U | | 24 | U | | 25 | U | | 26 | U | |
| AROCLOR-1221 | | 19 | U | | 19 | U | | 19 | U | | 20 | U | |
| AROCLOR-1232 | | 17 | U | | 16 | U | | 16 | U | | 17 | U | |
| AROCLOR-1242 | | 16 | U | | 15 | U | | 15 | U | | 16 | U | |
| AROCLOR-1248 | | 20 | U | | 20 | U | | 20 | U | | 21 | U | |
| AROCLOR-1254 | | 20 | U | | 20 | U | | 20 | U | | 21 | U | |
| AROCLOR-1260 | | 20 | U | | 20 | U | | 20 | U | | 21 | U | |

| PROJ_NO: 04054 | NSAMPLE | MT-SS21-0-2 | | | MT-SS21-8-10 | | |
|---|---|---|---|---|---|---|---|
| SDG: 240-13043-1 | LAB_ID | 240-13043-6 | | | 240-13043-7 | | |
| FRACTION: PCB | SAMP_DATE | 7/9/2012 | | | 7/9/2012 | | |
| MEDIA: SOIL | QC_TYPE | NM | | | NM | | |
| | UNITS | UG/KG | | | UG/KG | | |
| | PCT_SOLIDS | 84.8 | | | 85.0 | | |
| | DUP_OF | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| AROCLOR-1016 | | 25 | U | | 25 | U | |
| AROCLOR-1221 | | 19 | U | | 19 | U | |
| AROCLOR-1232 | | 17 | U | | 16 | U | |
| AROCLOR-1242 | | 15 | U | | 15 | U | |
| AROCLOR-1248 | | 20 | U | | 20 | U | |
| AROCLOR-1254 | | 20 | U | | 20 | U | |
| AROCLOR-1260 | | 20 | U | | 20 | U | |

| PROJ_NO: 04054 | NSAMPLE | MT-SS19-0-2 | | | | | | MT-SS19-8-10 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-13043-1 | LAB_ID | 240-13043-2 | | | | | | 240-13043-3 | | | | | |
| FRACTION: PET | SAMP_DATE | 7/9/2012 | | | | | | 7/9/2012 | | | | | |
| MEDIA: SOIL | QC_TYPE | NM | | | | | | NM | | | | | |
| | UNITS | MG/KG | | | UG/KG | | | MG/KG | | | UG/KG | | |
| | PCT_SOLIDS | 83.8 | | | 83.8 | | | 85.8 | | | 85.8 | | |
| | DUP_OF | | | | | | | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| TPH (C06-C10) | | | | | 55 | U | | | | | 54 | U | |
| TPH (C10-C32) | | 11 | B | A | | | | 11 | U | | | | |

| PROJ_NO: 04054 | NSAMPLE | MT-SS20-0-2 | | | | | | MT-SS20-8-10 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-13043-1 | LAB_ID | 240-13043-4 | | | | | | 240-13043-5 | | | | | |
| FRACTION: PET | SAMP_DATE | 7/9/2012 | | | | | | 7/9/2012 | | | | | |
| MEDIA: SOIL | QC_TYPE | NM | | | | | | NM | | | | | |
| | UNITS | MG/KG | | | UG/KG | | | MG/KG | | | UG/KG | | |
| | PCT_SOLIDS | 85.3 | | | 85.3 | | | 82.2 | | | 82.2 | | |
| | DUP_OF | | | | | | | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| TPH (C06-C10) | | | | | 54 | U | | | | | 56 | U | |
| TPH (C10-C32) | | 11 | U | | | | | 11 | U | | | | |

| PROJ_NO: 04054 | NSAMPLE | MT-SS21-0-2 | | | | | | MT-SS21-8-10 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-13043-1 | LAB_ID | 240-13043-6 | | | | | | 240-13043-7 | | | | | |
| FRACTION: PET | SAMP_DATE | 7/9/2012 | | | | | | 7/9/2012 | | | | | |
| MEDIA: SOIL | QC_TYPE | NM | | | | | | NM | | | | | |
| | UNITS | MG/KG | | | UG/KG | | | MG/KG | | | UG/KG | | |
| | PCT_SOLIDS | 84.8 | | | 84.8 | | | 85.0 | | | 85.0 | | |
| | DUP_OF | | | | | | | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| TPH (C06-C10) | | | | | 54 | U | | | | | 54 | U | |
| TPH (C10-C32) | | 11 | U | | | | | 11 | U | | | | |

# APPENDIX B

## RESULTS AS REPORTED BY THE LABORATORY

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: TB-070912 | Lab Sample ID: 240-13043-1

Matrix: Water | Lab File ID: UXX7821.D

Analysis Method: 8260B | Date Collected: 07/09/2012 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2012 22:46

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 50786 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.23 |
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 1.0 | 0.22 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.18 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trichfluoroeth ane | 1.0 | U | 1.0 | 0.28 |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.15 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.19 |
| 563-58-6 | 1,1-Dichloropropene | 1.0 | U | 1.0 | 0.13 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 1.0 | 0.17 |
| 96-18-4 | 1,2,3-Trichloropropane | 1.0 | U | 1.0 | 0.43 |
| 526-73-8 | 1,2,3-Trimethylbenzene | 5.0 | U | 5.0 | 0.0059 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.15 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.12 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 2.0 | U | 2.0 | 0.67 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.13 |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.22 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.18 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.14 |
| 142-28-9 | 1,3-Dichloropropane | 1.0 | U | 1.0 | 0.16 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.13 |
| 594-20-7 | 2,2-Dichloropropane | 1.0 | U | 1.0 | 0.13 |
| 110-75-8 | 2-Chloroethyl vinyl ether | 10 | U | 10 | 0.99 |
| 95-49-8 | 2-Chlorotoluene | 1.0 | U | 1.0 | 0.11 |
| 591-78-6 | 2-Hexanone | 10 | U | 10 | 0.41 |
| 108-86-1 | Bromobenzene | 1.0 | U | 1.0 | 0.13 |
| 74-97-5 | Bromochloromethane | 1.0 | U | 1.0 | 0.29 |
| 106-43-4 | 4-Chlorotoluene | 1.0 | U | 1.0 | 0.18 |
| 99-87-6 | p-Isopropyltoluene | 1.0 | U | 1.0 | 0.12 |
| 67-64-1 | Acetone | 10 | U | 10 | 1.1 |
| 71-43-2 | Benzene | 1.0 | U | 1.0 | 0.13 |
| 75-25-2 | Bromoform | 1.0 | U | 1.0 | 0.64 |
| 74-83-9 | Bromomethane | 1.0 | U | 1.0 | 0.41 |
| 75-15-0 | Carbon disulfide | 1.0 | U | 1.0 | 0.13 |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 1.0 | 0.13 |
| 108-90-7 | Chlorobenzene | 1.0 | U | 1.0 | 0.15 |
| 75-00-3 | Chloroethane | 1.0 | U | 1.0 | 0.29 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: TB-070912 | Lab Sample ID: 240-13043-1

Matrix: Water | Lab File ID: UXX7821.D

Analysis Method: 8260B | Date Collected: 07/09/2012 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2012 22:46

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 50786 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 67-66-3 | Chloroform | 1.0 | U | 1.0 | 0.16 |
| 74-87-3 | Chloromethane | 1.0 | U | 1.0 | 0.30 |
| 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.17 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.14 |
| 87-68-3 | Hexachlorobutadiene | 1.0 | U | 1.0 | 0.30 |
| 74-95-3 | Dibromomethane | 1.0 | U | 1.0 | 0.28 |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 1.0 | 0.15 |
| 75-71-8 | Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.31 |
| 100-41-4 | Ethylbenzene | 1.0 | U | 1.0 | 0.17 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.24 |
| 108-20-3 | Diisopropyl ether | 10 | U | 10 | 1.5 |
| 91-20-3 | Naphthalene | 1.0 | U | 1.0 | 0.24 |
| 179601-23-1 | m-Xylene & p-Xylene | 2.0 | U | 2.0 | 0.24 |
| 104-51-8 | n-Butylbenzene | 1.0 | U | 1.0 | 0.12 |
| 98-82-8 | Isopropylbenzene | 1.0 | U | 1.0 | 0.13 |
| 103-65-1 | n-Propylbenzene | 1.0 | U | 1.0 | 0.14 |
| 78-93-3 | 2-Butanone | 10 | U | 10 | 0.57 |
| 108-10-1 | 4-Methyl-2-pentanone | 10 | U | 10 | 0.32 |
| 135-98-8 | sec-Butylbenzene | 1.0 | U | 1.0 | 0.13 |
| 1634-04-4 | Methyl tert-butyl ether | 5.0 | U | 5.0 | 0.17 |
| 994-05-8 | Tert-amyl-methyl ether (TAME) | 5.0 | U | 5.0 | 0.067 |
| 75-09-2 | Methylene Chloride | 1.0 | U | 1.0 | 0.33 |
| 95-47-6 | o-Xylene | 1.0 | U | 1.0 | 0.14 |
| 100-42-5 | Styrene | 1.0 | U | 1.0 | 0.11 |
| 637-92-3 | Ethyl-t-butyl ether (ETBE) | 5.0 | U | 5.0 | 0.11 |
| 98-06-6 | tert-Butylbenzene | 1.0 | U | 1.0 | 0.13 |
| 127-18-4 | Tetrachloroethene | 1.0 | U | 1.0 | 0.29 |
| 108-88-3 | Toluene | 1.0 | U | 1.0 | 0.13 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.19 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.19 |
| 79-01-6 | Trichloroethene | 1.0 | U | 1.0 | 0.17 |
| 75-69-4 | Trichlorofluoromethane | 1.0 | U | 1.0 | 0.21 |
| 108-05-4 | Vinyl acetate | 2.0 | U | 2.0 | 0.19 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 1.0 | 0.22 |
| 75-65-0 | tert-Butyl alcohol | 50 | U | 50 | 3.9 |
| 1330-20-7 | Xylenes, Total | 2.0 | U | 2.0 | 0.28 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Client Sample ID: TB-070912  Lab Sample ID: 240-13043-1

Matrix: Water  Lab File ID: UXX7821.D

Analysis Method: 8260B  Date Collected: 07/09/2012 00:00

Sample wt/vol: 5(mL)  Date Analyzed: 07/13/2012 22:46

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 50786  Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | 1.0 | U | 1.0 | 0.18 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 96 | | 63-129 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 92 | | 66-117 |
| 2037-26-5 | Toluene-d8 (Surr) | 100 | | 74-115 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 100 | | 75-121 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: TB-070912 | Lab Sample ID: 240-13043-1

Matrix: Water | Lab File ID: UXX7821.D

Analysis Method: 8260B | Date Collected: 07/09/2012 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2012 22:46

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 50786 | Units: ug/L

Number TICs Found: 0 | TIC Result Total: 0

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| | Tentatively Identified Compound | | None | |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS19-0-2 | Lab Sample ID: 240-13043-2

Matrix: Solid | Lab File ID: UX89763.D

Analysis Method: 8260B | Date Collected: 07/09/2012 11:40

Sample wt/vol: 6.703(g) | Date Analyzed: 07/12/2012 03:39

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 16.2 | Level: (low/med) Low

Analysis Batch No.: 50546 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 4.5 | U | 4.5 | 0.55 |
| 71-55-6 | 1,1,1-Trichloroethane | 4.5 | U | 4.5 | 0.50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 4.5 | U | 4.5 | 0.30 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trichfluoroeth ane | 4.5 | U | 4.5 | 1.2 |
| 75-34-3 | 1,1-Dichloroethane | 4.5 | U | 4.5 | 0.32 |
| 75-35-4 | 1,1-Dichloroethene | 4.5 | U | 4.5 | 0.46 |
| 563-58-6 | 1,1-Dichloropropene | 4.5 | U | 4.5 | 0.27 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 4.5 | U | 4.5 | 0.34 |
| 96-18-4 | 1,2,3-Trichloropropane | 4.5 | U | 4.5 | 0.80 |
| 526-73-8 | 1,2,3-Trimethylbenzene | 4.5 | U | 4.5 | 0.15 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 4.5 | U | 4.5 | 0.24 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 4.5 | U | 4.5 | 0.58 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 8.9 | U | 8.9 | 1.2 |
| 106-93-4 | 1,2-Dibromoethane | 4.5 | U | 4.5 | 0.45 |
| 95-50-1 | 1,2-Dichlorobenzene | 4.5 | U | 4.5 | 0.32 |
| 107-06-2 | 1,2-Dichloroethane | 4.5 | U | 4.5 | 0.30 |
| 78-87-5 | 1,2-Dichloropropane | 4.5 | U | 4.5 | 0.61 |
| 541-73-1 | 1,3-Dichlorobenzene | 4.5 | U | 4.5 | 0.31 |
| 142-28-9 | 1,3-Dichloropropane | 4.5 | U | 4.5 | 0.30 |
| 106-46-7 | 1,4-Dichlorobenzene | 4.5 | U | 4.5 | 0.59 |
| 594-20-7 | 2,2-Dichloropropane | 4.5 | U | 4.5 | 0.84 |
| 78-93-3 | 2-Butanone | 18 | U | 18 | 1.2 |
| 110-75-8 | 2-Chloroethyl vinyl ether | 45 | U | 45 | 1.2 |
| 95-49-8 | 2-Chlorotoluene | 4.5 | U | 4.5 | 0.36 |
| 591-78-6 | 2-Hexanone | 18 | U | 18 | 0.56 |
| 106-43-4 | 4-Chlorotoluene | 4.5 | U | 4.5 | 0.36 |
| 108-10-1 | 4-Methyl-2-pentanone | 18 | U | 18 | 0.48 |
| 67-64-1 | Acetone | 18 | U * | 18 | 5.6 |
| 71-43-2 | Benzene | 4.5 | U | 4.5 | 0.20 |
| 108-86-1 | Bromobenzene | 4.5 | U | 4.5 | 0.29 |
| 74-97-5 | Bromochloromethane | 4.5 | U | 4.5 | 0.63 |
| 75-27-4 | Bromodichloromethane | 4.5 | U | 4.5 | 0.25 |
| 75-25-2 | Bromoform | 4.5 | U | 4.5 | 0.29 |
| 74-83-9 | Bromomethane | 4.5 | U | 4.5 | 0.48 |
| 75-15-0 | Carbon disulfide | 4.5 | U | 4.5 | 0.39 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS19-0-2  Lab Sample ID: 240-13043-2

Matrix: Solid  Lab File ID: UX89763.D

Analysis Method: 8260B  Date Collected: 07/09/2012 11:40

Sample wt/vol: 6.703(g)  Date Analyzed: 07/12/2012 03:39

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture: 16.2  Level: (low/med) Low

Analysis Batch No.: 50546  Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 56-23-5 | Carbon tetrachloride | 4.5 | U | 4.5 | 0.33 |
| 108-90-7 | Chlorobenzene | 4.5 | U | 4.5 | 0.29 |
| 75-00-3 | Chloroethane | 4.5 | U | 4.5 | 0.77 |
| 67-66-3 | Chloroform | 4.5 | U | 4.5 | 0.26 |
| 74-87-3 | Chloromethane | 4.5 | U | 4.5 | 0.36 |
| 156-59-2 | cis-1,2-Dichloroethene | 4.5 | U | 4.5 | 0.32 |
| 10061-01-5 | cis-1,3-Dichloropropene | 4.5 | U | 4.5 | 0.30 |
| 124-48-1 | Dibromochloromethane | 4.5 | U | 4.5 | 0.49 |
| 74-95-3 | Dibromomethane | 4.5 | U | 4.5 | 0.56 |
| 75-71-8 | Dichlorodifluoromethane | 4.5 | U | 4.5 | 0.45 |
| 108-20-3 | Diisopropyl ether | 8.9 | U | 8.9 | 1.3 |
| 100-41-4 | Ethylbenzene | 4.5 | U | 4.5 | 0.23 |
| 637-92-3 | Ethyl-t-butyl ether (ETBE) | 4.5 | U | 4.5 | 0.20 |
| 87-68-3 | Hexachlorobutadiene | 4.5 | U | 4.5 | 1.1 |
| 98-82-8 | Isopropylbenzene | 4.5 | U | 4.5 | 0.14 |
| 1634-04-4 | Methyl tert-butyl ether | 18 | U | 18 | 0.38 |
| 75-09-2 | Methylene Chloride | 1.9 | J B | 4.5 | 0.60 |
| 179601-23-1 | m-Xylene & p-Xylene | 8.9 | U | 8.9 | 1.1 |
| 91-20-3 | Naphthalene | 4.5 | U | 4.5 | 0.17 |
| 104-51-8 | n-Butylbenzene | 4.5 | U | 4.5 | 0.20 |
| 103-65-1 | n-Propylbenzene | 4.5 | U | 4.5 | 0.36 |
| 95-47-6 | o-Xylene | 4.5 | U | 4.5 | 0.31 |
| 99-87-6 | p-Isopropyltoluene | 4.5 | U | 4.5 | 0.19 |
| 135-98-8 | sec-Butylbenzene | 4.5 | U | 4.5 | 0.16 |
| 100-42-5 | Styrene | 4.5 | U | 4.5 | 0.13 |
| 994-05-8 | Tert-amyl-methyl ether (TAME) | 4.5 | U | 4.5 | 0.33 |
| 75-65-0 | tert-Butyl alcohol | 180 | U | 180 | 6.8 |
| 98-06-6 | tert-Butylbenzene | 4.5 | U | 4.5 | 0.26 |
| 127-18-4 | Tetrachloroethene | 4.5 | U | 4.5 | 0.46 |
| 108-88-3 | Toluene | 4.5 | U | 4.5 | 0.24 |
| 156-60-5 | trans-1,2-Dichloroethene | 4.5 | U | 4.5 | 0.36 |
| 10061-02-6 | trans-1,3-Dichloropropene | 4.5 | U | 4.5 | 0.48 |
| 79-01-6 | Trichloroethene | 4.5 | U | 4.5 | 0.37 |
| 75-69-4 | Trichlorofluoromethane | 4.5 | U | 4.5 | 0.30 |
| 108-05-4 | Vinyl acetate | 8.9 | U | 8.9 | 0.22 |
| 75-01-4 | Vinyl chloride | 4.5 | U | 4.5 | 0.35 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS19-0-2 Lab Sample ID: 240-13043-2

Matrix: Solid Lab File ID: UX89763.D

Analysis Method: 8260B Date Collected: 07/09/2012 11:40

Sample wt/vol: 6.703(g) Date Analyzed: 07/12/2012 03:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: 16.2 Level: (low/med) Low

Analysis Batch No.: 50546 Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 1330-20-7 | Xylenes, Total | 8.9 | U | 8.9 | 0.60 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 92 | | 58-123 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 84 | | 52-136 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 87 | | 37-132 |
| 2037-26-5 | Toluene-d8 (Surr) | 85 | | 67-125 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS19-0-2 | Lab Sample ID: 240-13043-2

Matrix: Solid | Lab File ID: UX89763.D

Analysis Method: 8260B | Date Collected: 07/09/2012 11:40

Sample wt/vol: 6.703(g) | Date Analyzed: 07/12/2012 03:39

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 16.2 | Level: (low/med) Low

Analysis Batch No.: 50546 | Units: ug/Kg

Number TICs Found: 2 | TIC Result Total: 13.6

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| 110-54-3 | Hexane | 3.74 | 2.6 | J |
| 556-67-2 | Cyclotetrasiloxane, octamethyl- | 8.92 | 11 | T J N |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS19-8-10 | Lab Sample ID: 240-13043-3

Matrix: Solid | Lab File ID: UX89758.D

Analysis Method: 8260B | Date Collected: 07/09/2012 11:45

Sample wt/vol: 5.986(g) | Date Analyzed: 07/12/2012 01:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 14.2 | Level: (low/med) Low

Analysis Batch No.: 50546 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 4.9 | U | 4.9 | 0.60 |
| 71-55-6 | 1,1,1-Trichloroethane | 4.9 | U | 4.9 | 0.55 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 4.9 | U | 4.9 | 0.33 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trichfluoroeth ane | 4.9 | U | 4.9 | 1.3 |
| 75-34-3 | 1,1-Dichloroethane | 4.9 | U | 4.9 | 0.35 |
| 75-35-4 | 1,1-Dichloroethene | 4.9 | U | 4.9 | 0.51 |
| 563-58-6 | 1,1-Dichloropropene | 4.9 | U | 4.9 | 0.29 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 4.9 | U | 4.9 | 0.37 |
| 96-18-4 | 1,2,3-Trichloropropane | 4.9 | U | 4.9 | 0.88 |
| 526-73-8 | 1,2,3-Trimethylbenzene | 4.9 | U | 4.9 | 0.17 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 4.9 | U | 4.9 | 0.26 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 4.9 | U | 4.9 | 0.63 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 9.7 | U | 9.7 | 1.3 |
| 106-93-4 | 1,2-Dibromoethane | 4.9 | U | 4.9 | 0.49 |
| 95-50-1 | 1,2-Dichlorobenzene | 4.9 | U | 4.9 | 0.35 |
| 107-06-2 | 1,2-Dichloroethane | 4.9 | U | 4.9 | 0.33 |
| 78-87-5 | 1,2-Dichloropropane | 4.9 | U | 4.9 | 0.67 |
| 541-73-1 | 1,3-Dichlorobenzene | 4.9 | U | 4.9 | 0.34 |
| 142-28-9 | 1,3-Dichloropropane | 4.9 | U | 4.9 | 0.33 |
| 106-46-7 | 1,4-Dichlorobenzene | 4.9 | U | 4.9 | 0.64 |
| 594-20-7 | 2,2-Dichloropropane | 4.9 | U | 4.9 | 0.92 |
| 78-93-3 | 2-Butanone | 19 | U | 19 | 1.4 |
| 110-75-8 | 2-Chloroethyl vinyl ether | 49 | U | 49 | 1.4 |
| 95-49-8 | 2-Chlorotoluene | 4.9 | U | 4.9 | 0.39 |
| 591-78-6 | 2-Hexanone | 19 | U | 19 | 0.61 |
| 106-43-4 | 4-Chlorotoluene | 4.9 | U | 4.9 | 0.40 |
| 108-10-1 | 4-Methyl-2-pentanone | 19 | U | 19 | 0.53 |
| 67-64-1 | Acetone | 19 | U * | 19 | 6.1 |
| 71-43-2 | Benzene | 4.9 | U | 4.9 | 0.22 |
| 108-86-1 | Bromobenzene | 4.9 | U | 4.9 | 0.32 |
| 74-97-5 | Bromochloromethane | 4.9 | U | 4.9 | 0.69 |
| 75-27-4 | Bromodichloromethane | 4.9 | U | 4.9 | 0.27 |
| 75-25-2 | Bromoform | 4.9 | U | 4.9 | 0.32 |
| 74-83-9 | Bromomethane | 4.9 | U | 4.9 | 0.53 |
| 75-15-0 | Carbon disulfide | 4.9 | U | 4.9 | 0.43 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS19-8-10 Lab Sample ID: 240-13043-3

Matrix: Solid Lab File ID: UX89758.D

Analysis Method: 8260B Date Collected: 07/09/2012 11:45

Sample wt/vol: 5.986(g) Date Analyzed: 07/12/2012 01:53

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: 14.2 Level: (low/med) Low

Analysis Batch No.: 50546 Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 56-23-5 | Carbon tetrachloride | 4.9 | U | 4.9 | 0.36 |
| 108-90-7 | Chlorobenzene | 4.9 | U | 4.9 | 0.32 |
| 75-00-3 | Chloroethane | 4.9 | U | 4.9 | 0.84 |
| 67-66-3 | Chloroform | 4.9 | U | 4.9 | 0.28 |
| 74-87-3 | Chloromethane | 4.9 | U | 4.9 | 0.40 |
| 156-59-2 | cis-1,2-Dichloroethene | 4.9 | U | 4.9 | 0.35 |
| 10061-01-5 | cis-1,3-Dichloropropene | 4.9 | U | 4.9 | 0.33 |
| 124-48-1 | Dibromochloromethane | 4.9 | U | 4.9 | 0.54 |
| 74-95-3 | Dibromomethane | 4.9 | U | 4.9 | 0.61 |
| 75-71-8 | Dichlorodifluoromethane | 4.9 | U | 4.9 | 0.49 |
| 108-20-3 | Diisopropyl ether | 9.7 | U | 9.7 | 1.5 |
| 100-41-4 | Ethylbenzene | 4.9 | U | 4.9 | 0.25 |
| 637-92-3 | Ethyl-t-butyl ether (ETBE) | 4.9 | U | 4.9 | 0.21 |
| 87-68-3 | Hexachlorobutadiene | 4.9 | U | 4.9 | 1.2 |
| 98-82-8 | Isopropylbenzene | 4.9 | U | 4.9 | 0.16 |
| 1634-04-4 | Methyl tert-butyl ether | 19 | U | 19 | 0.42 |
| 75-09-2 | Methylene Chloride | 3.0 | J B | 4.9 | 0.65 |
| 179601-23-1 | m-Xylene & p-Xylene | 9.7 | U | 9.7 | 1.2 |
| 91-20-3 | Naphthalene | 1.6 | J B | 4.9 | 0.18 |
| 104-51-8 | n-Butylbenzene | 4.9 | U | 4.9 | 0.22 |
| 103-65-1 | n-Propylbenzene | 4.9 | U | 4.9 | 0.39 |
| 95-47-6 | o-Xylene | 4.9 | U | 4.9 | 0.34 |
| 99-87-6 | p-Isopropyltoluene | 4.9 | U | 4.9 | 0.20 |
| 135-98-8 | sec-Butylbenzene | 4.9 | U | 4.9 | 0.18 |
| 100-42-5 | Styrene | 4.9 | U | 4.9 | 0.15 |
| 994-05-8 | Tert-amyl-methyl ether (TAME) | 4.9 | U | 4.9 | 0.36 |
| 75-65-0 | tert-Butyl alcohol | 190 | U | 190 | 7.4 |
| 98-06-6 | tert-Butylbenzene | 4.9 | U | 4.9 | 0.28 |
| 127-18-4 | Tetrachloroethene | 4.9 | U | 4.9 | 0.51 |
| 108-88-3 | Toluene | 4.9 | U | 4.9 | 0.26 |
| 156-60-5 | trans-1,2-Dichloroethene | 4.9 | U | 4.9 | 0.40 |
| 10061-02-6 | trans-1,3-Dichloropropene | 4.9 | U | 4.9 | 0.53 |
| 79-01-6 | Trichloroethene | 4.9 | U | 4.9 | 0.41 |
| 75-69-4 | Trichlorofluoromethane | 4.9 | U | 4.9 | 0.33 |
| 108-05-4 | Vinyl acetate | 9.7 | U | 9.7 | 0.24 |
| 75-01-4 | Vinyl chloride | 4.9 | U | 4.9 | 0.38 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS19-8-10 Lab Sample ID: 240-13043-3

Matrix: Solid Lab File ID: UX89758.D

Analysis Method: 8260B Date Collected: 07/09/2012 11:45

Sample wt/vol: 5.986(g) Date Analyzed: 07/12/2012 01:53

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: 14.2 Level: (low/med) Low

Analysis Batch No.: 50546 Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 1330-20-7 | Xylenes, Total | 9.7 | U | 9.7 | 0.65 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 91 | | 58-123 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 88 | | 52-136 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 88 | | 37-132 |
| 2037-26-5 | Toluene-d8 (Surr) | 84 | | 67-125 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS19-8-10 | Lab Sample ID: 240-13043-3

Matrix: Solid | Lab File ID: UX89758.D

Analysis Method: 8260B | Date Collected: 07/09/2012 11:45

Sample wt/vol: 5.986(g) | Date Analyzed: 07/12/2012 01:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 14.2 | Level: (low/med) Low

Analysis Batch No.: 50546 | Units: ug/Kg

Number TICs Found: 2 | TIC Result Total: 7.9

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| 110-54-3 | Hexane | 3.74 | 2.6 | J |
| 556-67-2 | Cyclotetrasiloxane, octamethyl- | 8.92 | 5.3 | T J N |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS20-0-2 | Lab Sample ID: 240-13043-4

Matrix: Solid | Lab File ID: UX89759.D

Analysis Method: 8260B | Date Collected: 07/09/2012 13:40

Sample wt/vol: 6.687(g) | Date Analyzed: 07/12/2012 02:14

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 14.7 | Level: (low/med) Low

Analysis Batch No.: 50546 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 4.4 | U | 4.4 | 0.54 |
| 71-55-6 | 1,1,1-Trichloroethane | 4.4 | U | 4.4 | 0.49 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 4.4 | U | 4.4 | 0.30 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trichfluoroeth ane | 4.4 | U | 4.4 | 1.1 |
| 75-34-3 | 1,1-Dichloroethane | 4.4 | U | 4.4 | 0.32 |
| 75-35-4 | 1,1-Dichloroethene | 4.4 | U | 4.4 | 0.46 |
| 563-58-6 | 1,1-Dichloropropene | 4.4 | U | 4.4 | 0.26 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 4.4 | U | 4.4 | 0.33 |
| 96-18-4 | 1,2,3-Trichloropropane | 4.4 | U | 4.4 | 0.79 |
| 526-73-8 | 1,2,3-Trimethylbenzene | 4.4 | U | 4.4 | 0.15 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 4.4 | U | 4.4 | 0.24 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 4.4 | U | 4.4 | 0.57 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 8.8 | U | 8.8 | 1.1 |
| 106-93-4 | 1,2-Dibromoethane | 4.4 | U | 4.4 | 0.44 |
| 95-50-1 | 1,2-Dichlorobenzene | 4.4 | U | 4.4 | 0.32 |
| 107-06-2 | 1,2-Dichloroethane | 4.4 | U | 4.4 | 0.30 |
| 78-87-5 | 1,2-Dichloropropane | 4.4 | U | 4.4 | 0.60 |
| 541-73-1 | 1,3-Dichlorobenzene | 4.4 | U | 4.4 | 0.31 |
| 142-28-9 | 1,3-Dichloropropane | 4.4 | U | 4.4 | 0.30 |
| 106-46-7 | 1,4-Dichlorobenzene | 4.4 | U | 4.4 | 0.58 |
| 594-20-7 | 2,2-Dichloropropane | 4.4 | U | 4.4 | 0.82 |
| 78-93-3 | 2-Butanone | 18 | U | 18 | 1.2 |
| 110-75-8 | 2-Chloroethyl vinyl ether | 44 | U | 44 | 1.2 |
| 95-49-8 | 2-Chlorotoluene | 4.4 | U | 4.4 | 0.35 |
| 591-78-6 | 2-Hexanone | 18 | U | 18 | 0.55 |
| 106-43-4 | 4-Chlorotoluene | 4.4 | U | 4.4 | 0.36 |
| 108-10-1 | 4-Methyl-2-pentanone | 18 | U | 18 | 0.47 |
| 67-64-1 | Acetone | 18 | U * | 18 | 5.5 |
| 71-43-2 | Benzene | 4.4 | U | 4.4 | 0.20 |
| 108-86-1 | Bromobenzene | 4.4 | U | 4.4 | 0.29 |
| 74-97-5 | Bromochloromethane | 4.4 | U | 4.4 | 0.62 |
| 75-27-4 | Bromodichloromethane | 4.4 | U | 4.4 | 0.25 |
| 75-25-2 | Bromoform | 4.4 | U | 4.4 | 0.29 |
| 74-83-9 | Bromomethane | 4.4 | U | 4.4 | 0.47 |
| 75-15-0 | Carbon disulfide | 4.4 | U | 4.4 | 0.39 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS20-0-2  Lab Sample ID: 240-13043-4

Matrix: Solid  Lab File ID: UX89759.D

Analysis Method: 8260B  Date Collected: 07/09/2012 13:40

Sample wt/vol: 6.687(g)  Date Analyzed: 07/12/2012 02:14

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture: 14.7  Level: (low/med) Low

Analysis Batch No.: 50546  Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 56-23-5 | Carbon tetrachloride | 4.4 | U | 4.4 | 0.32 |
| 108-90-7 | Chlorobenzene | 4.4 | U | 4.4 | 0.29 |
| 75-00-3 | Chloroethane | 4.4 | U | 4.4 | 0.75 |
| 67-66-3 | Chloroform | 4.4 | U | 4.4 | 0.25 |
| 74-87-3 | Chloromethane | 4.4 | U | 4.4 | 0.36 |
| 156-59-2 | cis-1,2-Dichloroethene | 4.4 | U | 4.4 | 0.32 |
| 10061-01-5 | cis-1,3-Dichloropropene | 4.4 | U | 4.4 | 0.30 |
| 124-48-1 | Dibromochloromethane | 4.4 | U | 4.4 | 0.48 |
| 74-95-3 | Dibromomethane | 4.4 | U | 4.4 | 0.55 |
| 75-71-8 | Dichlorodifluoromethane | 4.4 | U | 4.4 | 0.44 |
| 108-20-3 | Diisopropyl ether | 8.8 | U | 8.8 | 1.3 |
| 100-41-4 | Ethylbenzene | 4.4 | U | 4.4 | 0.23 |
| 637-92-3 | Ethyl-t-butyl ether (ETBE) | 4.4 | U | 4.4 | 0.19 |
| 87-68-3 | Hexachlorobutadiene | 4.4 | U | 4.4 | 1.1 |
| 98-82-8 | Isopropylbenzene | 4.4 | U | 4.4 | 0.14 |
| 1634-04-4 | Methyl tert-butyl ether | 18 | U | 18 | 0.38 |
| 75-09-2 | Methylene Chloride | 1.7 | J B | 4.4 | 0.59 |
| 179601-23-1 | m-Xylene & p-Xylene | 8.8 | U | 8.8 | 1.1 |
| 91-20-3 | Naphthalene | 0.24 | J B | 4.4 | 0.17 |
| 104-51-8 | n-Butylbenzene | 4.4 | U | 4.4 | 0.20 |
| 103-65-1 | n-Propylbenzene | 4.4 | U | 4.4 | 0.35 |
| 95-47-6 | o-Xylene | 4.4 | U | 4.4 | 0.31 |
| 99-87-6 | p-Isopropyltoluene | 4.4 | U | 4.4 | 0.18 |
| 135-98-8 | sec-Butylbenzene | 4.4 | U | 4.4 | 0.16 |
| 100-42-5 | Styrene | 4.4 | U | 4.4 | 0.13 |
| 994-05-8 | Tert-amyl-methyl ether (TAME) | 4.4 | U | 4.4 | 0.32 |
| 75-65-0 | tert-Butyl alcohol | 180 | U | 180 | 6.7 |
| 98-06-6 | tert-Butylbenzene | 4.4 | U | 4.4 | 0.25 |
| 127-18-4 | Tetrachloroethene | 4.4 | U | 4.4 | 0.46 |
| 108-88-3 | Toluene | 4.4 | U | 4.4 | 0.24 |
| 156-60-5 | trans-1,2-Dichloroethene | 4.4 | U | 4.4 | 0.36 |
| 10061-02-6 | trans-1,3-Dichloropropene | 4.4 | U | 4.4 | 0.47 |
| 79-01-6 | Trichloroethene | 4.4 | U | 4.4 | 0.37 |
| 75-69-4 | Trichlorofluoromethane | 4.4 | U | 4.4 | 0.30 |
| 108-05-4 | Vinyl acetate | 8.8 | U | 8.8 | 0.22 |
| 75-01-4 | Vinyl chloride | 4.4 | U | 4.4 | 0.34 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS20-0-2 | Lab Sample ID: 240-13043-4

Matrix: Solid | Lab File ID: UX89759.D

Analysis Method: 8260B | Date Collected: 07/09/2012 13:40

Sample wt/vol: 6.687(g) | Date Analyzed: 07/12/2012 02:14

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 14.7 | Level: (low/med) Low

Analysis Batch No.: 50546 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 1330-20-7 | Xylenes, Total | 8.8 | U | 8.8 | 0.59 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 86 | | 58-123 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 88 | | 52-136 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 88 | | 37-132 |
| 2037-26-5 | Toluene-d8 (Surr) | 92 | | 67-125 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS20-0-2 | Lab Sample ID: 240-13043-4

Matrix: Solid | Lab File ID: UX89759.D

Analysis Method: 8260B | Date Collected: 07/09/2012 13:40

Sample wt/vol: 6.687(g) | Date Analyzed: 07/12/2012 02:14

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 14.7 | Level: (low/med) Low

Analysis Batch No.: 50546 | Units: ug/Kg

Number TICs Found: 2 | TIC Result Total: 17.7

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| 110-54-3 | Hexane | 3.74 | 1.7 | J |
| 556-67-2 | Cyclotetrasiloxane, octamethyl- | 8.92 | 16 | T J N |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS20-8-10 | Lab Sample ID: 240-13043-5

Matrix: Solid | Lab File ID: UX89760.D

Analysis Method: 8260B | Date Collected: 07/09/2012 13:45

Sample wt/vol: 6.7(g) | Date Analyzed: 07/12/2012 02:35

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 17.8 | Level: (low/med) Low

Analysis Batch No.: 50546 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 4.5 | U | 4.5 | 0.56 |
| 71-55-6 | 1,1,1-Trichloroethane | 4.5 | U | 4.5 | 0.51 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 4.5 | U | 4.5 | 0.31 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trichfluoroeth ane | 4.5 | U | 4.5 | 1.2 |
| 75-34-3 | 1,1-Dichloroethane | 4.5 | U | 4.5 | 0.33 |
| 75-35-4 | 1,1-Dichloroethene | 4.5 | U | 4.5 | 0.47 |
| 563-58-6 | 1,1-Dichloropropene | 4.5 | U | 4.5 | 0.27 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 4.5 | U | 4.5 | 0.35 |
| 96-18-4 | 1,2,3-Trichloropropane | 4.5 | U | 4.5 | 0.82 |
| 526-73-8 | 1,2,3-Trimethylbenzene | 4.5 | U | 4.5 | 0.15 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 4.5 | U | 4.5 | 0.25 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 4.5 | U | 4.5 | 0.59 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 9.1 | U | 9.1 | 1.2 |
| 106-93-4 | 1,2-Dibromoethane | 4.5 | U | 4.5 | 0.45 |
| 95-50-1 | 1,2-Dichlorobenzene | 4.5 | U | 4.5 | 0.33 |
| 107-06-2 | 1,2-Dichloroethane | 4.5 | U | 4.5 | 0.31 |
| 78-87-5 | 1,2-Dichloropropane | 4.5 | U | 4.5 | 0.63 |
| 541-73-1 | 1,3-Dichlorobenzene | 4.5 | U | 4.5 | 0.32 |
| 142-28-9 | 1,3-Dichloropropane | 4.5 | U | 4.5 | 0.31 |
| 106-46-7 | 1,4-Dichlorobenzene | 4.5 | U | 4.5 | 0.60 |
| 594-20-7 | 2,2-Dichloropropane | 4.5 | U | 4.5 | 0.85 |
| 78-93-3 | 2-Butanone | 18 | U | 18 | 1.3 |
| 110-75-8 | 2-Chloroethyl vinyl ether | 45 | U | 45 | 1.3 |
| 95-49-8 | 2-Chlorotoluene | 4.5 | U | 4.5 | 0.36 |
| 591-78-6 | 2-Hexanone | 18 | U | 18 | 0.57 |
| 106-43-4 | 4-Chlorotoluene | 4.5 | U | 4.5 | 0.37 |
| 108-10-1 | 4-Methyl-2-pentanone | 18 | U | 18 | 0.49 |
| 67-64-1 | Acetone | 18 | U * | 18 | 5.7 |
| 71-43-2 | Benzene | 4.5 | U | 4.5 | 0.21 |
| 108-86-1 | Bromobenzene | 4.5 | U | 4.5 | 0.30 |
| 74-97-5 | Bromochloromethane | 4.5 | U | 4.5 | 0.64 |
| 75-27-4 | Bromodichloromethane | 4.5 | U | 4.5 | 0.25 |
| 75-25-2 | Bromoform | 4.5 | U | 4.5 | 0.30 |
| 74-83-9 | Bromomethane | 4.5 | U | 4.5 | 0.49 |
| 75-15-0 | Carbon disulfide | 4.5 | U | 4.5 | 0.40 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS20-8-10  Lab Sample ID: 240-13043-5

Matrix: Solid  Lab File ID: UX89760.D

Analysis Method: 8260B  Date Collected: 07/09/2012 13:45

Sample wt/vol: 6.7(g)  Date Analyzed: 07/12/2012 02:35

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture: 17.8  Level: (low/med) Low

Analysis Batch No.: 50546  Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 56-23-5 | Carbon tetrachloride | 4.5 | U | 4.5 | 0.34 |
| 108-90-7 | Chlorobenzene | 4.5 | U | 4.5 | 0.30 |
| 75-00-3 | Chloroethane | 4.5 | U | 4.5 | 0.78 |
| 67-66-3 | Chloroform | 4.5 | U | 4.5 | 0.26 |
| 74-87-3 | Chloromethane | 4.5 | U | 4.5 | 0.37 |
| 156-59-2 | cis-1,2-Dichloroethene | 4.5 | U | 4.5 | 0.33 |
| 10061-01-5 | cis-1,3-Dichloropropene | 4.5 | U | 4.5 | 0.31 |
| 124-48-1 | Dibromochloromethane | 4.5 | U | 4.5 | 0.50 |
| 74-95-3 | Dibromomethane | 4.5 | U | 4.5 | 0.57 |
| 75-71-8 | Dichlorodifluoromethane | 4.5 | U | 4.5 | 0.45 |
| 108-20-3 | Diisopropyl ether | 9.1 | U | 9.1 | 1.4 |
| 100-41-4 | Ethylbenzene | 4.5 | U | 4.5 | 0.24 |
| 637-92-3 | Ethyl-t-butyl ether (ETBE) | 4.5 | U | 4.5 | 0.20 |
| 87-68-3 | Hexachlorobutadiene | 4.5 | U | 4.5 | 1.1 |
| 98-82-8 | Isopropylbenzene | 4.5 | U | 4.5 | 0.15 |
| 1634-04-4 | Methyl tert-butyl ether | 18 | U | 18 | 0.39 |
| 75-09-2 | Methylene Chloride | 0.78 | J B | 4.5 | 0.61 |
| 179601-23-1 | m-Xylene & p-Xylene | 9.1 | U | 9.1 | 1.1 |
| 91-20-3 | Naphthalene | 4.5 | U | 4.5 | 0.17 |
| 104-51-8 | n-Butylbenzene | 4.5 | U | 4.5 | 0.21 |
| 103-65-1 | n-Propylbenzene | 4.5 | U | 4.5 | 0.36 |
| 95-47-6 | o-Xylene | 4.5 | U | 4.5 | 0.32 |
| 99-87-6 | p-Isopropyltoluene | 4.5 | U | 4.5 | 0.19 |
| 135-98-8 | sec-Butylbenzene | 4.5 | U | 4.5 | 0.16 |
| 100-42-5 | Styrene | 4.5 | U | 4.5 | 0.14 |
| 994-05-8 | Tert-amyl-methyl ether (TAME) | 4.5 | U | 4.5 | 0.34 |
| 75-65-0 | tert-Butyl alcohol | 180 | U | 180 | 6.9 |
| 98-06-6 | tert-Butylbenzene | 4.5 | U | 4.5 | 0.26 |
| 127-18-4 | Tetrachloroethene | 4.5 | U | 4.5 | 0.47 |
| 108-88-3 | Toluene | 4.5 | U | 4.5 | 0.25 |
| 156-60-5 | trans-1,2-Dichloroethene | 4.5 | U | 4.5 | 0.37 |
| 10061-02-6 | trans-1,3-Dichloropropene | 4.5 | U | 4.5 | 0.49 |
| 79-01-6 | Trichloroethene | 4.5 | U | 4.5 | 0.38 |
| 75-69-4 | Trichlorofluoromethane | 4.5 | U | 4.5 | 0.31 |
| 108-05-4 | Vinyl acetate | 9.1 | U | 9.1 | 0.23 |
| 75-01-4 | Vinyl chloride | 4.5 | U | 4.5 | 0.35 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS20-8-10 Lab Sample ID: 240-13043-5

Matrix: Solid Lab File ID: UX89760.D

Analysis Method: 8260B Date Collected: 07/09/2012 13:45

Sample wt/vol: 6.7(g) Date Analyzed: 07/12/2012 02:35

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: 17.8 Level: (low/med) Low

Analysis Batch No.: 50546 Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 1330-20-7 | Xylenes, Total | 9.1 | U | 9.1 | 0.61 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 91 | | 58-123 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 89 | | 52-136 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 89 | | 37-132 |
| 2037-26-5 | Toluene-d8 (Surr) | 90 | | 67-125 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS20-8-10 | Lab Sample ID: 240-13043-5

Matrix: Solid | Lab File ID: UX89760.D

Analysis Method: 8260B | Date Collected: 07/09/2012 13:45

Sample wt/vol: 6.7(g) | Date Analyzed: 07/12/2012 02:35

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 17.8 | Level: (low/med) Low

Analysis Batch No.: 50546 | Units: ug/Kg

Number TICs Found: 2 | TIC Result Total: 9.2

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| 110-54-3 | Hexane | 3.73 | 1.6 | J |
| 556-67-2 | Cyclotetrasiloxane, octamethyl- | 8.92 | 7.6 | T J N |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS21-0-2 | Lab Sample ID: 240-13043-6

Matrix: Solid | Lab File ID: UX89761.D

Analysis Method: 8260B | Date Collected: 07/09/2012 14:30

Sample wt/vol: 7.203(g) | Date Analyzed: 07/12/2012 02:57

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 15.2 | Level: (low/med) Low

Analysis Batch No.: 50546 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 4.1 | U | 4.1 | 0.51 |
| 71-55-6 | 1,1,1-Trichloroethane | 4.1 | U | 4.1 | 0.46 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 4.1 | U | 4.1 | 0.28 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trichfluoroeth ane | 4.1 | U | 4.1 | 1.1 |
| 75-34-3 | 1,1-Dichloroethane | 4.1 | U | 4.1 | 0.29 |
| 75-35-4 | 1,1-Dichloroethene | 4.1 | U | 4.1 | 0.43 |
| 563-58-6 | 1,1-Dichloropropene | 4.1 | U | 4.1 | 0.25 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 4.1 | U | 4.1 | 0.31 |
| 96-18-4 | 1,2,3-Trichloropropane | 4.1 | U | 4.1 | 0.74 |
| 526-73-8 | 1,2,3-Trimethylbenzene | 4.1 | U | 4.1 | 0.14 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 4.1 | U | 4.1 | 0.22 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 4.1 | U | 4.1 | 0.53 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 8.2 | U | 8.2 | 1.1 |
| 106-93-4 | 1,2-Dibromoethane | 4.1 | U | 4.1 | 0.41 |
| 95-50-1 | 1,2-Dichlorobenzene | 4.1 | U | 4.1 | 0.29 |
| 107-06-2 | 1,2-Dichloroethane | 4.1 | U | 4.1 | 0.28 |
| 78-87-5 | 1,2-Dichloropropane | 4.1 | U | 4.1 | 0.56 |
| 541-73-1 | 1,3-Dichlorobenzene | 4.1 | U | 4.1 | 0.29 |
| 142-28-9 | 1,3-Dichloropropane | 4.1 | U | 4.1 | 0.28 |
| 106-46-7 | 1,4-Dichlorobenzene | 4.1 | U | 4.1 | 0.54 |
| 594-20-7 | 2,2-Dichloropropane | 4.1 | U | 4.1 | 0.77 |
| 78-93-3 | 2-Butanone | 16 | U | 16 | 1.1 |
| 110-75-8 | 2-Chloroethyl vinyl ether | 41 | U | 41 | 1.1 |
| 95-49-8 | 2-Chlorotoluene | 4.1 | U | 4.1 | 0.33 |
| 591-78-6 | 2-Hexanone | 16 | U | 16 | 0.52 |
| 106-43-4 | 4-Chlorotoluene | 4.1 | U | 4.1 | 0.34 |
| 108-10-1 | 4-Methyl-2-pentanone | 16 | U | 16 | 0.44 |
| 67-64-1 | Acetone | 16 | U * | 16 | 5.2 |
| 71-43-2 | Benzene | 4.1 | U | 4.1 | 0.19 |
| 108-86-1 | Bromobenzene | 4.1 | U | 4.1 | 0.27 |
| 74-97-5 | Bromochloromethane | 4.1 | U | 4.1 | 0.58 |
| 75-27-4 | Bromodichloromethane | 4.1 | U | 4.1 | 0.23 |
| 75-25-2 | Bromoform | 4.1 | U | 4.1 | 0.27 |
| 74-83-9 | Bromomethane | 4.1 | U | 4.1 | 0.44 |
| 75-15-0 | Carbon disulfide | 4.1 | U | 4.1 | 0.36 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS21-0-2 | Lab Sample ID: 240-13043-6

Matrix: Solid | Lab File ID: UX89761.D

Analysis Method: 8260B | Date Collected: 07/09/2012 14:30

Sample wt/vol: 7.203(g) | Date Analyzed: 07/12/2012 02:57

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 15.2 | Level: (low/med) Low

Analysis Batch No.: 50546 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 56-23-5 | Carbon tetrachloride | 4.1 | U | 4.1 | 0.30 |
| 108-90-7 | Chlorobenzene | 4.1 | U | 4.1 | 0.27 |
| 75-00-3 | Chloroethane | 4.1 | U | 4.1 | 0.70 |
| 67-66-3 | Chloroform | 4.1 | U | 4.1 | 0.24 |
| 74-87-3 | Chloromethane | 4.1 | U | 4.1 | 0.34 |
| 156-59-2 | cis-1,2-Dichloroethene | 4.1 | U | 4.1 | 0.29 |
| 10061-01-5 | cis-1,3-Dichloropropene | 4.1 | U | 4.1 | 0.28 |
| 124-48-1 | Dibromochloromethane | 4.1 | U | 4.1 | 0.45 |
| 74-95-3 | Dibromomethane | 4.1 | U | 4.1 | 0.52 |
| 75-71-8 | Dichlorodifluoromethane | 4.1 | U | 4.1 | 0.41 |
| 108-20-3 | Diisopropyl ether | 8.2 | U | 8.2 | 1.2 |
| 100-41-4 | Ethylbenzene | 4.1 | U | 4.1 | 0.21 |
| 637-92-3 | Ethyl-t-butyl ether (ETBE) | 4.1 | U | 4.1 | 0.18 |
| 87-68-3 | Hexachlorobutadiene | 4.1 | U | 4.1 | 0.98 |
| 98-82-8 | Isopropylbenzene | 4.1 | U | 4.1 | 0.13 |
| 1634-04-4 | Methyl tert-butyl ether | 16 | U | 16 | 0.35 |
| 75-09-2 | Methylene Chloride | 1.0 | J B | 4.1 | 0.55 |
| 179601-23-1 | m-Xylene & p-Xylene | 8.2 | U | 8.2 | 0.98 |
| 91-20-3 | Naphthalene | 4.1 | U | 4.1 | 0.16 |
| 104-51-8 | n-Butylbenzene | 4.1 | U | 4.1 | 0.19 |
| 103-65-1 | n-Propylbenzene | 4.1 | U | 4.1 | 0.33 |
| 95-47-6 | o-Xylene | 4.1 | U | 4.1 | 0.29 |
| 99-87-6 | p-Isopropyltoluene | 4.1 | U | 4.1 | 0.17 |
| 135-98-8 | sec-Butylbenzene | 4.1 | U | 4.1 | 0.15 |
| 100-42-5 | Styrene | 4.1 | U | 4.1 | 0.12 |
| 994-05-8 | Tert-amyl-methyl ether (TAME) | 4.1 | U | 4.1 | 0.30 |
| 75-65-0 | tert-Butyl alcohol | 160 | U | 160 | 6.2 |
| 98-06-6 | tert-Butylbenzene | 4.1 | U | 4.1 | 0.24 |
| 127-18-4 | Tetrachloroethene | 4.1 | U | 4.1 | 0.43 |
| 108-88-3 | Toluene | 4.1 | U | 4.1 | 0.22 |
| 156-60-5 | trans-1,2-Dichloroethene | 4.1 | U | 4.1 | 0.34 |
| 10061-02-6 | trans-1,3-Dichloropropene | 4.1 | U | 4.1 | 0.44 |
| 79-01-6 | Trichloroethene | 4.1 | U | 4.1 | 0.34 |
| 75-69-4 | Trichlorofluoromethane | 4.1 | U | 4.1 | 0.28 |
| 108-05-4 | Vinyl acetate | 8.2 | U | 8.2 | 0.20 |
| 75-01-4 | Vinyl chloride | 4.1 | U | 4.1 | 0.32 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS21-0-2 Lab Sample ID: 240-13043-6

Matrix: Solid Lab File ID: UX89761.D

Analysis Method: 8260B Date Collected: 07/09/2012 14:30

Sample wt/vol: 7.203(g) Date Analyzed: 07/12/2012 02:57

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: 15.2 Level: (low/med) Low

Analysis Batch No.: 50546 Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 1330-20-7 | Xylenes, Total | 8.2 | U | 8.2 | 0.55 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 95 | | 58-123 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 91 | | 52-136 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 90 | | 37-132 |
| 2037-26-5 | Toluene-d8 (Surr) | 88 | | 67-125 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS21-0-2  Lab Sample ID: 240-13043-6

Matrix: Solid  Lab File ID: UX89761.D

Analysis Method: 8260B  Date Collected: 07/09/2012 14:30

Sample wt/vol: 7.203(g)  Date Analyzed: 07/12/2012 02:57

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture: 15.2  Level: (low/med) Low

Analysis Batch No.: 50546  Units: ug/Kg

Number TICs Found: 2  TIC Result Total: 14.1

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| 110-54-3 | Hexane | 3.74 | 2.1 | J |
| 556-67-2 | Cyclotetrasiloxane, octamethyl- | 8.92 | 12 | T J N |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS21-8-10 Lab Sample ID: 240-13043-7

Matrix: Solid Lab File ID: UX89762.D

Analysis Method: 8260B Date Collected: 07/09/2012 14:35

Sample wt/vol: 5.952(g) Date Analyzed: 07/12/2012 03:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: 15.0 Level: (low/med) Low

Analysis Batch No.: 50546 Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 4.9 | U | 4.9 | 0.61 |
| 71-55-6 | 1,1,1-Trichloroethane | 4.9 | U | 4.9 | 0.55 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 4.9 | U | 4.9 | 0.34 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trichfluoroeth ane | 4.9 | U | 4.9 | 1.3 |
| 75-34-3 | 1,1-Dichloroethane | 4.9 | U | 4.9 | 0.36 |
| 75-35-4 | 1,1-Dichloroethene | 4.9 | U | 4.9 | 0.51 |
| 563-58-6 | 1,1-Dichloropropene | 4.9 | U | 4.9 | 0.30 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 4.9 | U | 4.9 | 0.38 |
| 96-18-4 | 1,2,3-Trichloropropane | 4.9 | U | 4.9 | 0.89 |
| 526-73-8 | 1,2,3-Trimethylbenzene | 4.9 | U | 4.9 | 0.17 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 4.9 | U | 4.9 | 0.27 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 4.9 | U | 4.9 | 0.64 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 9.9 | U | 9.9 | 1.3 |
| 106-93-4 | 1,2-Dibromoethane | 4.9 | U | 4.9 | 0.49 |
| 95-50-1 | 1,2-Dichlorobenzene | 4.9 | U | 4.9 | 0.36 |
| 107-06-2 | 1,2-Dichloroethane | 4.9 | U | 4.9 | 0.34 |
| 78-87-5 | 1,2-Dichloropropane | 4.9 | U | 4.9 | 0.68 |
| 541-73-1 | 1,3-Dichlorobenzene | 4.9 | U | 4.9 | 0.35 |
| 142-28-9 | 1,3-Dichloropropane | 4.9 | U | 4.9 | 0.34 |
| 106-46-7 | 1,4-Dichlorobenzene | 4.9 | U | 4.9 | 0.65 |
| 594-20-7 | 2,2-Dichloropropane | 4.9 | U | 4.9 | 0.93 |
| 78-93-3 | 2-Butanone | 20 | U | 20 | 1.4 |
| 110-75-8 | 2-Chloroethyl vinyl ether | 49 | U | 49 | 1.4 |
| 95-49-8 | 2-Chlorotoluene | 4.9 | U | 4.9 | 0.40 |
| 591-78-6 | 2-Hexanone | 20 | U | 20 | 0.62 |
| 106-43-4 | 4-Chlorotoluene | 4.9 | U | 4.9 | 0.41 |
| 108-10-1 | 4-Methyl-2-pentanone | 20 | U | 20 | 0.53 |
| 67-64-1 | Acetone | 20 | U * | 20 | 6.2 |
| 71-43-2 | Benzene | 4.9 | U | 4.9 | 0.23 |
| 108-86-1 | Bromobenzene | 4.9 | U | 4.9 | 0.33 |
| 74-97-5 | Bromochloromethane | 4.9 | U | 4.9 | 0.70 |
| 75-27-4 | Bromodichloromethane | 4.9 | U | 4.9 | 0.28 |
| 75-25-2 | Bromoform | 4.9 | U | 4.9 | 0.33 |
| 74-83-9 | Bromomethane | 4.9 | U | 4.9 | 0.53 |
| 75-15-0 | Carbon disulfide | 4.9 | U | 4.9 | 0.43 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS21-8-10 | Lab Sample ID: 240-13043-7

Matrix: Solid | Lab File ID: UX89762.D

Analysis Method: 8260B | Date Collected: 07/09/2012 14:35

Sample wt/vol: 5.952(g) | Date Analyzed: 07/12/2012 03:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 15.0 | Level: (low/med) Low

Analysis Batch No.: 50546 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 56-23-5 | Carbon tetrachloride | 4.4 | J | 4.9 | 0.37 |
| 108-90-7 | Chlorobenzene | 4.9 | U | 4.9 | 0.33 |
| 75-00-3 | Chloroethane | 4.9 | U | 4.9 | 0.85 |
| 67-66-3 | Chloroform | 4.9 | U | 4.9 | 0.29 |
| 74-87-3 | Chloromethane | 4.9 | U | 4.9 | 0.41 |
| 156-59-2 | cis-1,2-Dichloroethene | 4.9 | U | 4.9 | 0.36 |
| 10061-01-5 | cis-1,3-Dichloropropene | 4.9 | U | 4.9 | 0.34 |
| 124-48-1 | Dibromochloromethane | 4.9 | U | 4.9 | 0.54 |
| 74-95-3 | Dibromomethane | 4.9 | U | 4.9 | 0.62 |
| 75-71-8 | Dichlorodifluoromethane | 4.9 | U | 4.9 | 0.49 |
| 108-20-3 | Diisopropyl ether | 9.9 | U | 9.9 | 1.5 |
| 100-41-4 | Ethylbenzene | 4.9 | U | 4.9 | 0.26 |
| 637-92-3 | Ethyl-t-butyl ether (ETBE) | 4.9 | U | 4.9 | 0.22 |
| 87-68-3 | Hexachlorobutadiene | 4.9 | U | 4.9 | 1.2 |
| 98-82-8 | Isopropylbenzene | 4.9 | U | 4.9 | 0.16 |
| 1634-04-4 | Methyl tert-butyl ether | 20 | U | 20 | 0.42 |
| 75-09-2 | Methylene Chloride | 0.66 | J B | 4.9 | 0.66 |
| 179601-23-1 | m-Xylene & p-Xylene | 9.9 | U | 9.9 | 1.2 |
| 91-20-3 | Naphthalene | 4.9 | U | 4.9 | 0.19 |
| 104-51-8 | n-Butylbenzene | 4.9 | U | 4.9 | 0.23 |
| 103-65-1 | n-Propylbenzene | 4.9 | U | 4.9 | 0.40 |
| 95-47-6 | o-Xylene | 4.9 | U | 4.9 | 0.35 |
| 99-87-6 | p-Isopropyltoluene | 4.9 | U | 4.9 | 0.21 |
| 135-98-8 | sec-Butylbenzene | 4.9 | U | 4.9 | 0.18 |
| 100-42-5 | Styrene | 4.9 | U | 4.9 | 0.15 |
| 994-05-8 | Tert-amyl-methyl ether (TAME) | 4.9 | U | 4.9 | 0.37 |
| 75-65-0 | tert-Butyl alcohol | 200 | U | 200 | 7.5 |
| 98-06-6 | tert-Butylbenzene | 4.9 | U | 4.9 | 0.29 |
| 127-18-4 | Tetrachloroethene | 4.9 | U | 4.9 | 0.51 |
| 108-88-3 | Toluene | 4.9 | U | 4.9 | 0.27 |
| 156-60-5 | trans-1,2-Dichloroethene | 4.9 | U | 4.9 | 0.41 |
| 10061-02-6 | trans-1,3-Dichloropropene | 4.9 | U | 4.9 | 0.53 |
| 79-01-6 | Trichloroethene | 110 | | 4.9 | 0.42 |
| 75-69-4 | Trichlorofluoromethane | 4.9 | U | 4.9 | 0.34 |
| 108-05-4 | Vinyl acetate | 9.9 | U | 9.9 | 0.25 |
| 75-01-4 | Vinyl chloride | 4.9 | U | 4.9 | 0.39 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS21-8-10 | Lab Sample ID: 240-13043-7

Matrix: Solid | Lab File ID: UX89762.D

Analysis Method: 8260B | Date Collected: 07/09/2012 14:35

Sample wt/vol: 5.952(g) | Date Analyzed: 07/12/2012 03:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 15.0 | Level: (low/med) Low

Analysis Batch No.: 50546 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 1330-20-7 | Xylenes, Total | 9.9 | U | 9.9 | 0.66 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 91 | | 58-123 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 92 | | 52-136 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 89 | | 37-132 |
| 2037-26-5 | Toluene-d8 (Surr) | 89 | | 67-125 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS21-8-10 | Lab Sample ID: 240-13043-7

Matrix: Solid | Lab File ID: UX89762.D

Analysis Method: 8260B | Date Collected: 07/09/2012 14:35

Sample wt/vol: 5.952(g) | Date Analyzed: 07/12/2012 03:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 15.0 | Level: (low/med) Low

Analysis Batch No.: 50546 | Units: ug/Kg

Number TICs Found: 2 | TIC Result Total: 9

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| 110-54-3 | Hexane | 3.74 | 1.6 | J |
| 556-67-2 | Cyclotetrasiloxane, octamethyl- | 8.92 | 7.4 | T J N |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS19-0-2 | Lab Sample ID: 240-13043-2

Matrix: Solid | Lab File ID: 20719026.D

Analysis Method: 8270D | Date Collected: 07/09/2012 11:40

Extract. Method: 3540C | Date Extracted: 07/17/2012 08:20

Sample wt/vol: 29.54(g) | Date Analyzed: 07/19/2012 16:01

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 16.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51296 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 61 | U | 61 | 33 |
| 123-91-1 | 1,4-Dioxane | 120 | U | 120 | 27 |
| 88-06-2 | 2,4,6-Trichlorophenol | 180 | U | 180 | 97 |
| 95-95-4 | 2,4,5-Trichlorophenol | 180 | U | 180 | 30 |
| 120-83-2 | 2,4-Dichlorophenol | 180 | U | 180 | 24 |
| 105-67-9 | 2,4-Dimethylphenol | 180 | U | 180 | 24 |
| 51-28-5 | 2,4-Dinitrophenol | 400 | U | 400 | 97 |
| 121-14-2 | 2,4-Dinitrotoluene | 240 | U | 240 | 33 |
| 91-58-7 | 2-Chloronaphthalene | 61 | U | 61 | 4.0 |
| 95-57-8 | 2-Chlorophenol | 61 | U | 61 | 33 |
| 91-57-6 | 2-Methylnaphthalene | 8.1 | U | 8.1 | 4.0 |
| 95-48-7 | 2-Methylphenol | 240 | U | 240 | 97 |
| 88-74-4 | 2-Nitroaniline | 240 | U | 240 | 11 |
| 88-75-5 | 2-Nitrophenol | 61 | U | 61 | 33 |
| 15831-10-4 | 3 & 4 Methylphenol | 480 | U | 480 | 24 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 120 | U | 120 | 22 |
| 99-09-2 | 3-Nitroaniline | 240 | U | 240 | 19 |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 180 | U | 180 | 97 |
| 101-55-3 | 4-Bromophenyl phenyl ether | 61 | U | 61 | 16 |
| 59-50-7 | 4-Chloro-3-methylphenol | 180 | U | 180 | 25 |
| 106-47-8 | 4-Chloroaniline | 180 | U | 180 | 21 |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 61 | U | 61 | 16 |
| 100-01-6 | 4-Nitroaniline | 240 | U | 240 | 32 |
| 83-32-9 | Acenaphthene | 8.1 | U | 8.1 | 4.0 |
| 208-96-8 | Acenaphthylene | 8.1 | U | 8.1 | 4.0 |
| 98-86-2 | Acetophenone | 120 | U | 120 | 11 |
| 120-12-7 | Anthracene | 8.1 | U | 8.1 | 4.0 |
| 1912-24-9 | Atrazine | 240 | U | 240 | 11 |
| 100-52-7 | Benzaldehyde | 120 | U | 120 | 15 |
| 56-55-3 | Benzo[a]anthracene | 8.1 | U | 8.1 | 4.0 |
| 50-32-8 | Benzo[a]pyrene | 8.1 | U | 8.1 | 4.0 |
| 205-99-2 | Benzo[b]fluoranthene | 8.1 | U | 8.1 | 4.0 |
| 191-24-2 | Benzo[g,h,i]perylene | 8.1 | U | 8.1 | 4.0 |
| 207-08-9 | Benzo[k]fluoranthene | 8.1 | U | 8.1 | 4.0 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS19-0-2 | Lab Sample ID: 240-13043-2

Matrix: Solid | Lab File ID: 20719026.D

Analysis Method: 8270D | Date Collected: 07/09/2012 11:40

Extract. Method: 3540C | Date Extracted: 07/17/2012 08:20

Sample wt/vol: 29.54(g) | Date Analyzed: 07/19/2012 16:01

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 16.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51296 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 111-91-1 | Bis(2-chloroethoxy)methane | 120 | U | 120 | 27 |
| 111-44-4 | Bis(2-chloroethyl)ether | 120 | U | 120 | 2.4 |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 61 | U | 61 | 23 |
| 85-68-7 | Butyl benzyl phthalate | 61 | U | 61 | 12 |
| 105-60-2 | Caprolactam | 400 | U | 400 | 45 |
| 86-74-8 | Carbazole | 61 | U | 61 | 33 |
| 218-01-9 | Chrysene | 8.1 | U | 8.1 | 1.3 |
| 84-74-2 | Di-n-butyl phthalate | 61 | U | 61 | 18 |
| 117-84-0 | Di-n-octyl phthalate | 61 | U | 61 | 33 |
| 53-70-3 | Dibenzo(a,h)anthracene | 8.1 | U | 8.1 | 4.0 |
| 132-64-9 | Dibenzofuran | 61 | U | 61 | 4.0 |
| 84-66-2 | Diethyl phthalate | 61 | U | 61 | 19 |
| 131-11-3 | Dimethyl phthalate | 61 | U | 61 | 21 |
| 206-44-0 | Fluoranthene | 8.1 | U | 8.1 | 4.0 |
| 86-73-7 | Fluorene | 8.1 | U | 8.1 | 4.0 |
| 118-74-1 | Hexachlorobenzene | 8.1 | U | 8.1 | 2.5 |
| 87-68-3 | Hexachlorobutadiene | 61 | U | 61 | 33 |
| 77-47-4 | Hexachlorocyclopentadiene | 400 | U | 400 | 33 |
| 67-72-1 | Hexachloroethane | 61 | U | 61 | 11 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 8.1 | U | 8.1 | 4.0 |
| 78-59-1 | Isophorone | 61 | U | 61 | 16 |
| 621-64-7 | N-Nitrosodi-n-propylamine | 61 | U | 61 | 33 |
| 62-75-9 | N-Nitrosodimethylamine | 120 | U | 120 | 19 |
| 86-30-6 | N-Nitrosodiphenylamine | 61 | U | 61 | 25 |
| 91-20-3 | Naphthalene | 8.1 | U | 8.1 | 4.0 |
| 98-95-3 | Nitrobenzene | 120 | U | 120 | 2.7 |
| 87-86-5 | Pentachlorophenol | 180 | U | 180 | 97 |
| 85-01-8 | Phenanthrene | 8.1 | U | 8.1 | 4.0 |
| 108-95-2 | Phenol | 61 | U | 61 | 33 |
| 129-00-0 | Pyrene | 8.1 | U | 8.1 | 4.0 |
| 108-60-1 | 2,2'-oxybis[1-chloropropane] | 120 | U | 120 | 12 |
| 606-20-2 | 2,6-Dinitrotoluene | 240 | U | 240 | 25 |
| 100-02-7 | 4-Nitrophenol | 400 | U | 400 | 97 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS19-0-2 | Lab Sample ID: 240-13043-2

Matrix: Solid | Lab File ID: 20719026.D

Analysis Method: 8270D | Date Collected: 07/09/2012 11:40

Extract. Method: 3540C | Date Extracted: 07/17/2012 08:20

Sample wt/vol: 29.54(g) | Date Analyzed: 07/19/2012 16:01

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 16.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51296 | Units: ug/Kg

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 1718-51-0 | Terphenyl-d14 (Surr) | 64 | | 41-119 |
| 4165-62-2 | Phenol-d5 (Surr) | 54 | | 28-110 |
| 4165-60-0 | Nitrobenzene-d5 (Surr) | 47 | | 24-112 |
| 367-12-4 | 2-Fluorophenol (Surr) | 58 | | 26-110 |
| 321-60-8 | 2-Fluorobiphenyl (Surr) | 41 | | 34-110 |
| 118-79-6 | 2,4,6-Tribromophenol (Surr) | 29 | | 10-118 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS19-8-10 | Lab Sample ID: 240-13043-3

Matrix: Solid | Lab File ID: 20720015.D

Analysis Method: 8270D | Date Collected: 07/09/2012 11:45

Extract. Method: 3540C | Date Extracted: 07/18/2012 11:30

Sample wt/vol: 30.12(g) | Date Analyzed: 07/20/2012 13:56

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 14.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51476 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 58 | U | 58 | 31 |
| 123-91-1 | 1,4-Dioxane | 120 | U | 120 | 26 |
| 88-06-2 | 2,4,6-Trichlorophenol | 170 | U | 170 | 93 |
| 95-95-4 | 2,4,5-Trichlorophenol | 170 | U | 170 | 29 |
| 120-83-2 | 2,4-Dichlorophenol | 170 | U | 170 | 23 |
| 105-67-9 | 2,4-Dimethylphenol | 170 | U | 170 | 23 |
| 51-28-5 | 2,4-Dinitrophenol | 380 | U | 380 | 93 |
| 121-14-2 | 2,4-Dinitrotoluene | 230 | U | 230 | 31 |
| 91-58-7 | 2-Chloronaphthalene | 58 | U | 58 | 3.8 |
| 95-57-8 | 2-Chlorophenol | 58 | U | 58 | 31 |
| 91-57-6 | 2-Methylnaphthalene | 7.7 | U | 7.7 | 3.8 |
| 95-48-7 | 2-Methylphenol | 230 | U | 230 | 93 |
| 88-74-4 | 2-Nitroaniline | 230 | U | 230 | 11 |
| 88-75-5 | 2-Nitrophenol | 58 | U | 58 | 31 |
| 15831-10-4 | 3 & 4 Methylphenol | 460 | U | 460 | 23 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 120 | U | 120 | 21 |
| 99-09-2 | 3-Nitroaniline | 230 | U | 230 | 19 |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 170 | U | 170 | 93 |
| 101-55-3 | 4-Bromophenyl phenyl ether | 58 | U | 58 | 15 |
| 59-50-7 | 4-Chloro-3-methylphenol | 170 | U | 170 | 24 |
| 106-47-8 | 4-Chloroaniline | 170 | U | 170 | 20 |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 58 | U | 58 | 15 |
| 100-01-6 | 4-Nitroaniline | 230 | U | 230 | 30 |
| 83-32-9 | Acenaphthene | 7.7 | U | 7.7 | 3.8 |
| 208-96-8 | Acenaphthylene | 7.7 | U | 7.7 | 3.8 |
| 98-86-2 | Acetophenone | 120 | U | 120 | 11 |
| 120-12-7 | Anthracene | 7.7 | U | 7.7 | 3.8 |
| 1912-24-9 | Atrazine | 230 | U | 230 | 11 |
| 100-52-7 | Benzaldehyde | 120 | U | 120 | 14 |
| 56-55-3 | Benzo[a]anthracene | 7.7 | U | 7.7 | 3.8 |
| 50-32-8 | Benzo[a]pyrene | 6.6 | J | 7.7 | 3.8 |
| 205-99-2 | Benzo[b]fluoranthene | 6.3 | J | 7.7 | 3.8 |
| 191-24-2 | Benzo[g,h,i]perylene | 7.7 | U | 7.7 | 3.8 |
| 207-08-9 | Benzo[k]fluoranthene | 4.9 | J | 7.7 | 3.8 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS19-8-10 | Lab Sample ID: 240-13043-3

Matrix: Solid | Lab File ID: 20720015.D

Analysis Method: 8270D | Date Collected: 07/09/2012 11:45

Extract. Method: 3540C | Date Extracted: 07/18/2012 11:30

Sample wt/vol: 30.12(g) | Date Analyzed: 07/20/2012 13:56

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 14.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51476 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 111-91-1 | Bis(2-chloroethoxy)methane | 120 | U | 120 | 26 |
| 111-44-4 | Bis(2-chloroethyl)ether | 120 | U | 120 | 2.3 |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 26 | J B | 58 | 22 |
| 85-68-7 | Butyl benzyl phthalate | 58 | U | 58 | 12 |
| 105-60-2 | Caprolactam | 380 | U | 380 | 43 |
| 86-74-8 | Carbazole | 58 | U | 58 | 31 |
| 218-01-9 | Chrysene | 7.7 | U | 7.7 | 1.3 |
| 84-74-2 | Di-n-butyl phthalate | 34 | J | 58 | 17 |
| 117-84-0 | Di-n-octyl phthalate | 58 | U | 58 | 31 |
| 53-70-3 | Dibenzo(a,h)anthracene | 7.7 | U | 7.7 | 3.8 |
| 132-64-9 | Dibenzofuran | 58 | U | 58 | 3.8 |
| 84-66-2 | Diethyl phthalate | 58 | U | 58 | 19 |
| 131-11-3 | Dimethyl phthalate | 58 | U | 58 | 20 |
| 206-44-0 | Fluoranthene | 15 | | 7.7 | 3.8 |
| 86-73-7 | Fluorene | 7.7 | U | 7.7 | 3.8 |
| 118-74-1 | Hexachlorobenzene | 7.7 | U | 7.7 | 2.4 |
| 87-68-3 | Hexachlorobutadiene | 58 | U | 58 | 31 |
| 77-47-4 | Hexachlorocyclopentadiene | 380 | U | 380 | 31 |
| 67-72-1 | Hexachloroethane | 58 | U | 58 | 10 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 7.7 | U | 7.7 | 3.8 |
| 78-59-1 | Isophorone | 58 | U | 58 | 15 |
| 621-64-7 | N-Nitrosodi-n-propylamine | 58 | U | 58 | 31 |
| 62-75-9 | N-Nitrosodimethylamine | 120 | U | 120 | 19 |
| 86-30-6 | N-Nitrosodiphenylamine | 58 | U | 58 | 24 |
| 91-20-3 | Naphthalene | 7.7 | U | 7.7 | 3.8 |
| 98-95-3 | Nitrobenzene | 120 | U | 120 | 2.6 |
| 87-86-5 | Pentachlorophenol | 170 | U | 170 | 93 |
| 85-01-8 | Phenanthrene | 7.7 | U | 7.7 | 3.8 |
| 108-95-2 | Phenol | 58 | U | 58 | 31 |
| 129-00-0 | Pyrene | 16 | | 7.7 | 3.8 |
| 108-60-1 | 2,2'-oxybis[1-chloropropane] | 120 | U | 120 | 11 |
| 606-20-2 | 2,6-Dinitrotoluene | 230 | U | 230 | 24 |
| 100-02-7 | 4-Nitrophenol | 380 | U | 380 | 93 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS19-8-10 | Lab Sample ID: 240-13043-3

Matrix: Solid | Lab File ID: 20720015.D

Analysis Method: 8270D | Date Collected: 07/09/2012 11:45

Extract. Method: 3540C | Date Extracted: 07/18/2012 11:30

Sample wt/vol: 30.12(g) | Date Analyzed: 07/20/2012 13:56

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 14.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51476 | Units: ug/Kg

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 1718-51-0 | Terphenyl-d14 (Surr) | 90 | | 41-119 |
| 4165-62-2 | Phenol-d5 (Surr) | 95 | | 28-110 |
| 4165-60-0 | Nitrobenzene-d5 (Surr) | 70 | | 24-112 |
| 367-12-4 | 2-Fluorophenol (Surr) | 91 | | 26-110 |
| 321-60-8 | 2-Fluorobiphenyl (Surr) | 64 | | 34-110 |
| 118-79-6 | 2,4,6-Tribromophenol (Surr) | 63 | | 10-118 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS20-0-2 | Lab Sample ID: 240-13043-4

Matrix: Solid | Lab File ID: 20720016.D

Analysis Method: 8270D | Date Collected: 07/09/2012 13:40

Extract. Method: 3540C | Date Extracted: 07/18/2012 11:30

Sample wt/vol: 30.08(g) | Date Analyzed: 07/20/2012 14:15

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 14.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51476 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 58 | U | 58 | 32 |
| 123-91-1 | 1,4-Dioxane | 120 | U | 120 | 26 |
| 88-06-2 | 2,4,6-Trichlorophenol | 180 | U | 180 | 94 |
| 95-95-4 | 2,4,5-Trichlorophenol | 180 | U | 180 | 29 |
| 120-83-2 | 2,4-Dichlorophenol | 180 | U | 180 | 23 |
| 105-67-9 | 2,4-Dimethylphenol | 180 | U | 180 | 23 |
| 51-28-5 | 2,4-Dinitrophenol | 390 | U | 390 | 94 |
| 121-14-2 | 2,4-Dinitrotoluene | 230 | U | 230 | 32 |
| 91-58-7 | 2-Chloronaphthalene | 58 | U | 58 | 3.9 |
| 95-57-8 | 2-Chlorophenol | 58 | U | 58 | 32 |
| 91-57-6 | 2-Methylnaphthalene | 7.8 | U | 7.8 | 3.9 |
| 95-48-7 | 2-Methylphenol | 230 | U | 230 | 94 |
| 88-74-4 | 2-Nitroaniline | 230 | U | 230 | 11 |
| 88-75-5 | 2-Nitrophenol | 58 | U | 58 | 32 |
| 15831-10-4 | 3 & 4 Methylphenol | 470 | U | 470 | 23 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 120 | U | 120 | 21 |
| 99-09-2 | 3-Nitroaniline | 230 | U | 230 | 19 |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 180 | U | 180 | 94 |
| 101-55-3 | 4-Bromophenyl phenyl ether | 58 | U | 58 | 15 |
| 59-50-7 | 4-Chloro-3-methylphenol | 180 | U | 180 | 25 |
| 106-47-8 | 4-Chloroaniline | 180 | U | 180 | 20 |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 58 | U | 58 | 15 |
| 100-01-6 | 4-Nitroaniline | 230 | U | 230 | 30 |
| 83-32-9 | Acenaphthene | 7.8 | U | 7.8 | 3.9 |
| 208-96-8 | Acenaphthylene | 7.8 | U | 7.8 | 3.9 |
| 98-86-2 | Acetophenone | 120 | U | 120 | 11 |
| 120-12-7 | Anthracene | 7.8 | U | 7.8 | 3.9 |
| 1912-24-9 | Atrazine | 230 | U | 230 | 11 |
| 100-52-7 | Benzaldehyde | 120 | U | 120 | 14 |
| 56-55-3 | Benzo[a]anthracene | 7.8 | U | 7.8 | 3.9 |
| 50-32-8 | Benzo[a]pyrene | 7.8 | U | 7.8 | 3.9 |
| 205-99-2 | Benzo[b]fluoranthene | 7.8 | U | 7.8 | 3.9 |
| 191-24-2 | Benzo[g,h,i]perylene | 7.8 | U | 7.8 | 3.9 |
| 207-08-9 | Benzo[k]fluoranthene | 7.8 | U | 7.8 | 3.9 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS20-0-2 | Lab Sample ID: 240-13043-4

Matrix: Solid | Lab File ID: 20720016.D

Analysis Method: 8270D | Date Collected: 07/09/2012 13:40

Extract. Method: 3540C | Date Extracted: 07/18/2012 11:30

Sample wt/vol: 30.08(g) | Date Analyzed: 07/20/2012 14:15

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 14.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51476 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 111-91-1 | Bis(2-chloroethoxy)methane | 120 | U | 120 | 26 |
| 111-44-4 | Bis(2-chloroethyl)ether | 120 | U | 120 | 2.3 |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 34 | J B | 58 | 22 |
| 85-68-7 | Butyl benzyl phthalate | 58 | U | 58 | 12 |
| 105-60-2 | Caprolactam | 390 | U | 390 | 43 |
| 86-74-8 | Carbazole | 58 | U | 58 | 32 |
| 218-01-9 | Chrysene | 7.8 | U | 7.8 | 1.3 |
| 84-74-2 | Di-n-butyl phthalate | 24 | J | 58 | 18 |
| 117-84-0 | Di-n-octyl phthalate | 58 | U | 58 | 32 |
| 53-70-3 | Dibenzo(a,h)anthracene | 7.8 | U | 7.8 | 3.9 |
| 132-64-9 | Dibenzofuran | 58 | U | 58 | 3.9 |
| 84-66-2 | Diethyl phthalate | 58 | U | 58 | 19 |
| 131-11-3 | Dimethyl phthalate | 58 | U | 58 | 20 |
| 206-44-0 | Fluoranthene | 5.7 | J | 7.8 | 3.9 |
| 86-73-7 | Fluorene | 7.8 | U | 7.8 | 3.9 |
| 118-74-1 | Hexachlorobenzene | 7.8 | U | 7.8 | 2.5 |
| 87-68-3 | Hexachlorobutadiene | 58 | U | 58 | 32 |
| 77-47-4 | Hexachlorocyclopentadiene | 390 | U | 390 | 32 |
| 67-72-1 | Hexachloroethane | 58 | U | 58 | 11 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 7.8 | U | 7.8 | 3.9 |
| 78-59-1 | Isophorone | 58 | U | 58 | 15 |
| 621-64-7 | N-Nitrosodi-n-propylamine | 58 | U | 58 | 32 |
| 62-75-9 | N-Nitrosodimethylamine | 120 | U | 120 | 19 |
| 86-30-6 | N-Nitrosodiphenylamine | 58 | U | 58 | 25 |
| 91-20-3 | Naphthalene | 7.8 | U | 7.8 | 3.9 |
| 98-95-3 | Nitrobenzene | 120 | U | 120 | 2.6 |
| 87-86-5 | Pentachlorophenol | 180 | U | 180 | 94 |
| 85-01-8 | Phenanthrene | 7.8 | U | 7.8 | 3.9 |
| 108-95-2 | Phenol | 58 | U | 58 | 32 |
| 129-00-0 | Pyrene | 4.8 | J | 7.8 | 3.9 |
| 108-60-1 | 2,2'-oxybis[1-chloropropane] | 120 | U | 120 | 11 |
| 606-20-2 | 2,6-Dinitrotoluene | 230 | U | 230 | 25 |
| 100-02-7 | 4-Nitrophenol | 390 | U | 390 | 94 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS20-0-2 | Lab Sample ID: 240-13043-4

Matrix: Solid | Lab File ID: 20720016.D

Analysis Method: 8270D | Date Collected: 07/09/2012 13:40

Extract. Method: 3540C | Date Extracted: 07/18/2012 11:30

Sample wt/vol: 30.08(g) | Date Analyzed: 07/20/2012 14:15

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 14.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51476 | Units: ug/Kg

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 1718-51-0 | Terphenyl-d14 (Surr) | 88 | | 41-119 |
| 4165-62-2 | Phenol-d5 (Surr) | 84 | | 28-110 |
| 4165-60-0 | Nitrobenzene-d5 (Surr) | 63 | | 24-112 |
| 367-12-4 | 2-Fluorophenol (Surr) | 79 | | 26-110 |
| 321-60-8 | 2-Fluorobiphenyl (Surr) | 60 | | 34-110 |
| 118-79-6 | 2,4,6-Tribromophenol (Surr) | 67 | | 10-118 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS20-8-10 | Lab Sample ID: 240-13043-5

Matrix: Solid | Lab File ID: 20720019.D

Analysis Method: 8270D | Date Collected: 07/09/2012 13:45

Extract. Method: 3540C | Date Extracted: 07/18/2012 11:30

Sample wt/vol: 30.10(g) | Date Analyzed: 07/20/2012 15:12

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 17.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51476 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 61 | U | 61 | 33 |
| 123-91-1 | 1,4-Dioxane | 120 | U | 120 | 27 |
| 88-06-2 | 2,4,6-Trichlorophenol | 180 | U | 180 | 97 |
| 95-95-4 | 2,4,5-Trichlorophenol | 180 | U | 180 | 30 |
| 120-83-2 | 2,4-Dichlorophenol | 180 | U | 180 | 24 |
| 105-67-9 | 2,4-Dimethylphenol | 180 | U | 180 | 24 |
| 51-28-5 | 2,4-Dinitrophenol | 400 | U | 400 | 97 |
| 121-14-2 | 2,4-Dinitrotoluene | 240 | U | 240 | 33 |
| 91-58-7 | 2-Chloronaphthalene | 61 | U | 61 | 4.0 |
| 95-57-8 | 2-Chlorophenol | 61 | U | 61 | 33 |
| 91-57-6 | 2-Methylnaphthalene | 8.1 | U | 8.1 | 4.0 |
| 95-48-7 | 2-Methylphenol | 240 | U | 240 | 97 |
| 88-74-4 | 2-Nitroaniline | 240 | U | 240 | 11 |
| 88-75-5 | 2-Nitrophenol | 61 | U | 61 | 33 |
| 15831-10-4 | 3 & 4 Methylphenol | 490 | U | 490 | 24 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 120 | U | 120 | 22 |
| 99-09-2 | 3-Nitroaniline | 240 | U | 240 | 19 |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 180 | U | 180 | 97 |
| 101-55-3 | 4-Bromophenyl phenyl ether | 61 | U | 61 | 16 |
| 59-50-7 | 4-Chloro-3-methylphenol | 180 | U | 180 | 25 |
| 106-47-8 | 4-Chloroaniline | 180 | U | 180 | 21 |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 61 | U | 61 | 16 |
| 100-01-6 | 4-Nitroaniline | 240 | U | 240 | 32 |
| 83-32-9 | Acenaphthene | 8.1 | U | 8.1 | 4.0 |
| 208-96-8 | Acenaphthylene | 8.1 | U | 8.1 | 4.0 |
| 98-86-2 | Acetophenone | 120 | U | 120 | 11 |
| 120-12-7 | Anthracene | 8.1 | U | 8.1 | 4.0 |
| 1912-24-9 | Atrazine | 240 | U | 240 | 11 |
| 100-52-7 | Benzaldehyde | 120 | U | 120 | 15 |
| 56-55-3 | Benzo[a]anthracene | 11 | | 8.1 | 4.0 |
| 50-32-8 | Benzo[a]pyrene | 16 | | 8.1 | 4.0 |
| 205-99-2 | Benzo[b]fluoranthene | 15 | | 8.1 | 4.0 |
| 191-24-2 | Benzo[g,h,i]perylene | 15 | | 8.1 | 4.0 |
| 207-08-9 | Benzo[k]fluoranthene | 7.2 | J | 8.1 | 4.0 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS20-8-10 | Lab Sample ID: 240-13043-5

Matrix: Solid | Lab File ID: 20720019.D

Analysis Method: 8270D | Date Collected: 07/09/2012 13:45

Extract. Method: 3540C | Date Extracted: 07/18/2012 11:30

Sample wt/vol: 30.10(g) | Date Analyzed: 07/20/2012 15:12

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 17.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51476 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 111-91-1 | Bis(2-chloroethoxy)methane | 120 | U | 120 | 27 |
| 111-44-4 | Bis(2-chloroethyl)ether | 120 | U | 120 | 2.4 |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 28 | J B | 61 | 23 |
| 85-68-7 | Butyl benzyl phthalate | 61 | U | 61 | 12 |
| 105-60-2 | Caprolactam | 400 | U | 400 | 45 |
| 86-74-8 | Carbazole | 61 | U | 61 | 33 |
| 218-01-9 | Chrysene | 11 | | 8.1 | 1.3 |
| 84-74-2 | Di-n-butyl phthalate | 61 | U | 61 | 18 |
| 117-84-0 | Di-n-octyl phthalate | 61 | U | 61 | 33 |
| 53-70-3 | Dibenzo(a,h)anthracene | 8.1 | U | 8.1 | 4.0 |
| 132-64-9 | Dibenzofuran | 61 | U | 61 | 4.0 |
| 84-66-2 | Diethyl phthalate | 61 | U | 61 | 19 |
| 131-11-3 | Dimethyl phthalate | 61 | U | 61 | 21 |
| 206-44-0 | Fluoranthene | 13 | | 8.1 | 4.0 |
| 86-73-7 | Fluorene | 8.1 | U | 8.1 | 4.0 |
| 118-74-1 | Hexachlorobenzene | 8.1 | U | 8.1 | 2.5 |
| 87-68-3 | Hexachlorobutadiene | 61 | U | 61 | 33 |
| 77-47-4 | Hexachlorocyclopentadiene | 400 | U | 400 | 33 |
| 67-72-1 | Hexachloroethane | 61 | U | 61 | 11 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 10 | | 8.1 | 4.0 |
| 78-59-1 | Isophorone | 61 | U | 61 | 16 |
| 621-64-7 | N-Nitrosodi-n-propylamine | 61 | U | 61 | 33 |
| 62-75-9 | N-Nitrosodimethylamine | 120 | U | 120 | 19 |
| 86-30-6 | N-Nitrosodiphenylamine | 61 | U | 61 | 25 |
| 91-20-3 | Naphthalene | 8.1 | U | 8.1 | 4.0 |
| 98-95-3 | Nitrobenzene | 120 | U | 120 | 2.7 |
| 87-86-5 | Pentachlorophenol | 180 | U | 180 | 97 |
| 85-01-8 | Phenanthrene | 9.4 | | 8.1 | 4.0 |
| 108-95-2 | Phenol | 61 | U | 61 | 33 |
| 129-00-0 | Pyrene | 19 | | 8.1 | 4.0 |
| 108-60-1 | 2,2'-oxybis[1-chloropropane] | 120 | U | 120 | 12 |
| 606-20-2 | 2,6-Dinitrotoluene | 240 | U | 240 | 25 |
| 100-02-7 | 4-Nitrophenol | 400 | U | 400 | 97 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS20-8-10 | Lab Sample ID: 240-13043-5

Matrix: Solid | Lab File ID: 20720019.D

Analysis Method: 8270D | Date Collected: 07/09/2012 13:45

Extract. Method: 3540C | Date Extracted: 07/18/2012 11:30

Sample wt/vol: 30.10(g) | Date Analyzed: 07/20/2012 15:12

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 17.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51476 | Units: ug/Kg

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 1718-51-0 | Terphenyl-d14 (Surr) | 86 | | 41-119 |
| 4165-62-2 | Phenol-d5 (Surr) | 89 | | 28-110 |
| 4165-60-0 | Nitrobenzene-d5 (Surr) | 65 | | 24-112 |
| 367-12-4 | 2-Fluorophenol (Surr) | 83 | | 26-110 |
| 321-60-8 | 2-Fluorobiphenyl (Surr) | 61 | | 34-110 |
| 118-79-6 | 2,4,6-Tribromophenol (Surr) | 69 | | 10-118 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS21-0-2  Lab Sample ID: 240-13043-6

Matrix: Solid  Lab File ID: 20720017.D

Analysis Method: 8270D  Date Collected: 07/09/2012 14:30

Extract. Method: 3540C  Date Extracted: 07/18/2012 11:30

Sample wt/vol: 30.32(g)  Date Analyzed: 07/20/2012 14:34

Con. Extract Vol.: 2(mL)  Dilution Factor: 1

Injection Volume: 1(uL)  Level: (low/med) Low

% Moisture: 15.2  GPC Cleanup:(Y/N) N

Analysis Batch No.: 51476  Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 58 | U | 58 | 32 |
| 123-91-1 | 1,4-Dioxane | 120 | U | 120 | 26 |
| 88-06-2 | 2,4,6-Trichlorophenol | 180 | U | 180 | 93 |
| 95-95-4 | 2,4,5-Trichlorophenol | 180 | U | 180 | 29 |
| 120-83-2 | 2,4-Dichlorophenol | 180 | U | 180 | 23 |
| 105-67-9 | 2,4-Dimethylphenol | 180 | U | 180 | 23 |
| 51-28-5 | 2,4-Dinitrophenol | 390 | U | 390 | 93 |
| 121-14-2 | 2,4-Dinitrotoluene | 230 | U | 230 | 32 |
| 91-58-7 | 2-Chloronaphthalene | 58 | U | 58 | 3.9 |
| 95-57-8 | 2-Chlorophenol | 58 | U | 58 | 32 |
| 91-57-6 | 2-Methylnaphthalene | 7.8 | U | 7.8 | 3.9 |
| 95-48-7 | 2-Methylphenol | 230 | U | 230 | 93 |
| 88-74-4 | 2-Nitroaniline | 230 | U | 230 | 11 |
| 88-75-5 | 2-Nitrophenol | 58 | U | 58 | 32 |
| 15831-10-4 | 3 & 4 Methylphenol | 470 | U | 470 | 23 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 120 | U | 120 | 21 |
| 99-09-2 | 3-Nitroaniline | 230 | U | 230 | 19 |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 180 | U | 180 | 93 |
| 101-55-3 | 4-Bromophenyl phenyl ether | 58 | U | 58 | 15 |
| 59-50-7 | 4-Chloro-3-methylphenol | 180 | U | 180 | 25 |
| 106-47-8 | 4-Chloroaniline | 180 | U | 180 | 20 |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 58 | U | 58 | 15 |
| 100-01-6 | 4-Nitroaniline | 230 | U | 230 | 30 |
| 83-32-9 | Acenaphthene | 7.8 | U | 7.8 | 3.9 |
| 208-96-8 | Acenaphthylene | 7.8 | U | 7.8 | 3.9 |
| 98-86-2 | Acetophenone | 120 | U | 120 | 11 |
| 120-12-7 | Anthracene | 7.8 | U | 7.8 | 3.9 |
| 1912-24-9 | Atrazine | 230 | U | 230 | 11 |
| 100-52-7 | Benzaldehyde | 120 | U | 120 | 14 |
| 56-55-3 | Benzo[a]anthracene | 6.0 | J | 7.8 | 3.9 |
| 50-32-8 | Benzo[a]pyrene | 4.9 | J | 7.8 | 3.9 |
| 205-99-2 | Benzo[b]fluoranthene | 5.6 | J | 7.8 | 3.9 |
| 191-24-2 | Benzo[g,h,i]perylene | 7.8 | U | 7.8 | 3.9 |
| 207-08-9 | Benzo[k]fluoranthene | 7.8 | U | 7.8 | 3.9 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS21-0-2 | Lab Sample ID: 240-13043-6

Matrix: Solid | Lab File ID: 20720017.D

Analysis Method: 8270D | Date Collected: 07/09/2012 14:30

Extract. Method: 3540C | Date Extracted: 07/18/2012 11:30

Sample wt/vol: 30.32(g) | Date Analyzed: 07/20/2012 14:34

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 15.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51476 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 111-91-1 | Bis(2-chloroethoxy)methane | 120 | U | 120 | 26 |
| 111-44-4 | Bis(2-chloroethyl)ether | 120 | U | 120 | 2.3 |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 24 | J B | 58 | 22 |
| 85-68-7 | Butyl benzyl phthalate | 58 | U | 58 | 12 |
| 105-60-2 | Caprolactam | 390 | U | 390 | 43 |
| 86-74-8 | Carbazole | 58 | U | 58 | 32 |
| 218-01-9 | Chrysene | 7.0 | J | 7.8 | 1.3 |
| 84-74-2 | Di-n-butyl phthalate | 58 | U | 58 | 18 |
| 117-84-0 | Di-n-octyl phthalate | 58 | U | 58 | 32 |
| 53-70-3 | Dibenzo(a,h)anthracene | 7.8 | U | 7.8 | 3.9 |
| 132-64-9 | Dibenzofuran | 58 | U | 58 | 3.9 |
| 84-66-2 | Diethyl phthalate | 58 | U | 58 | 19 |
| 131-11-3 | Dimethyl phthalate | 58 | U | 58 | 20 |
| 206-44-0 | Fluoranthene | 14 | | 7.8 | 3.9 |
| 86-73-7 | Fluorene | 7.8 | U | 7.8 | 3.9 |
| 118-74-1 | Hexachlorobenzene | 7.8 | U | 7.8 | 2.5 |
| 87-68-3 | Hexachlorobutadiene | 58 | U | 58 | 32 |
| 77-47-4 | Hexachlorocyclopentadiene | 390 | U | 390 | 32 |
| 67-72-1 | Hexachloroethane | 58 | U | 58 | 11 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 7.8 | U | 7.8 | 3.9 |
| 78-59-1 | Isophorone | 58 | U | 58 | 15 |
| 621-64-7 | N-Nitrosodi-n-propylamine | 58 | U | 58 | 32 |
| 62-75-9 | N-Nitrosodimethylamine | 120 | U | 120 | 19 |
| 86-30-6 | N-Nitrosodiphenylamine | 58 | U | 58 | 25 |
| 91-20-3 | Naphthalene | 7.8 | U | 7.8 | 3.9 |
| 98-95-3 | Nitrobenzene | 120 | U | 120 | 2.6 |
| 87-86-5 | Pentachlorophenol | 180 | U | 180 | 93 |
| 85-01-8 | Phenanthrene | 11 | | 7.8 | 3.9 |
| 108-95-2 | Phenol | 58 | U | 58 | 32 |
| 129-00-0 | Pyrene | 14 | | 7.8 | 3.9 |
| 108-60-1 | 2,2'-oxybis[1-chloropropane] | 120 | U | 120 | 11 |
| 606-20-2 | 2,6-Dinitrotoluene | 230 | U | 230 | 25 |
| 100-02-7 | 4-Nitrophenol | 390 | U | 390 | 93 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS21-0-2 | Lab Sample ID: 240-13043-6

Matrix: Solid | Lab File ID: 20720017.D

Analysis Method: 8270D | Date Collected: 07/09/2012 14:30

Extract. Method: 3540C | Date Extracted: 07/18/2012 11:30

Sample wt/vol: 30.32(g) | Date Analyzed: 07/20/2012 14:34

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 15.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51476 | Units: ug/Kg

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 1718-51-0 | Terphenyl-d14 (Surr) | 85 | | 41-119 |
| 4165-62-2 | Phenol-d5 (Surr) | 90 | | 28-110 |
| 4165-60-0 | Nitrobenzene-d5 (Surr) | 64 | | 24-112 |
| 367-12-4 | 2-Fluorophenol (Surr) | 89 | | 26-110 |
| 321-60-8 | 2-Fluorobiphenyl (Surr) | 61 | | 34-110 |
| 118-79-6 | 2,4,6-Tribromophenol (Surr) | 81 | | 10-118 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS21-8-10 | Lab Sample ID: 240-13043-7

Matrix: Solid | Lab File ID: 20720018.D

Analysis Method: 8270D | Date Collected: 07/09/2012 14:35

Extract. Method: 3540C | Date Extracted: 07/18/2012 11:30

Sample wt/vol: 29.94(g) | Date Analyzed: 07/20/2012 14:53

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 15.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51476 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 59 | U | 59 | 32 |
| 123-91-1 | 1,4-Dioxane | 120 | U | 120 | 26 |
| 88-06-2 | 2,4,6-Trichlorophenol | 180 | U | 180 | 94 |
| 95-95-4 | 2,4,5-Trichlorophenol | 180 | U | 180 | 29 |
| 120-83-2 | 2,4-Dichlorophenol | 180 | U | 180 | 24 |
| 105-67-9 | 2,4-Dimethylphenol | 180 | U | 180 | 24 |
| 51-28-5 | 2,4-Dinitrophenol | 390 | U | 390 | 94 |
| 121-14-2 | 2,4-Dinitrotoluene | 240 | U | 240 | 32 |
| 91-58-7 | 2-Chloronaphthalene | 59 | U | 59 | 3.9 |
| 95-57-8 | 2-Chlorophenol | 59 | U | 59 | 32 |
| 91-57-6 | 2-Methylnaphthalene | 7.9 | U | 7.9 | 3.9 |
| 95-48-7 | 2-Methylphenol | 240 | U | 240 | 94 |
| 88-74-4 | 2-Nitroaniline | 240 | U | 240 | 11 |
| 88-75-5 | 2-Nitrophenol | 59 | U | 59 | 32 |
| 15831-10-4 | 3 & 4 Methylphenol | 470 | U | 470 | 24 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 120 | U | 120 | 21 |
| 99-09-2 | 3-Nitroaniline | 240 | U | 240 | 19 |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 180 | U | 180 | 94 |
| 101-55-3 | 4-Bromophenyl phenyl ether | 59 | U | 59 | 15 |
| 59-50-7 | 4-Chloro-3-methylphenol | 180 | U | 180 | 25 |
| 106-47-8 | 4-Chloroaniline | 180 | U | 180 | 20 |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 59 | U | 59 | 15 |
| 100-01-6 | 4-Nitroaniline | 240 | U | 240 | 31 |
| 83-32-9 | Acenaphthene | 7.9 | U | 7.9 | 3.9 |
| 208-96-8 | Acenaphthylene | 7.9 | U | 7.9 | 3.9 |
| 98-86-2 | Acetophenone | 120 | U | 120 | 11 |
| 120-12-7 | Anthracene | 7.9 | U | 7.9 | 3.9 |
| 1912-24-9 | Atrazine | 240 | U | 240 | 11 |
| 100-52-7 | Benzaldehyde | 120 | U | 120 | 14 |
| 56-55-3 | Benzo[a]anthracene | 9.3 | | 7.9 | 3.9 |
| 50-32-8 | Benzo[a]pyrene | 8.2 | | 7.9 | 3.9 |
| 205-99-2 | Benzo[b]fluoranthene | 8.7 | | 7.9 | 3.9 |
| 191-24-2 | Benzo[g,h,i]perylene | 5.4 | J | 7.9 | 3.9 |
| 207-08-9 | Benzo[k]fluoranthene | 7.9 | U | 7.9 | 3.9 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS21-8-10 | Lab Sample ID: 240-13043-7

Matrix: Solid | Lab File ID: 20720018.D

Analysis Method: 8270D | Date Collected: 07/09/2012 14:35

Extract. Method: 3540C | Date Extracted: 07/18/2012 11:30

Sample wt/vol: 29.94(g) | Date Analyzed: 07/20/2012 14:53

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 15.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51476 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 111-91-1 | Bis(2-chloroethoxy)methane | 120 | U | 120 | 26 |
| 111-44-4 | Bis(2-chloroethyl)ether | 120 | U | 120 | 2.4 |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 59 | U | 59 | 22 |
| 85-68-7 | Butyl benzyl phthalate | 59 | U | 59 | 12 |
| 105-60-2 | Caprolactam | 390 | U | 390 | 44 |
| 86-74-8 | Carbazole | 59 | U | 59 | 32 |
| 218-01-9 | Chrysene | 8.4 | | 7.9 | 1.3 |
| 84-74-2 | Di-n-butyl phthalate | 59 | U | 59 | 18 |
| 117-84-0 | Di-n-octyl phthalate | 59 | U | 59 | 32 |
| 53-70-3 | Dibenzo(a,h)anthracene | 7.9 | U | 7.9 | 3.9 |
| 132-64-9 | Dibenzofuran | 59 | U | 59 | 3.9 |
| 84-66-2 | Diethyl phthalate | 59 | U | 59 | 19 |
| 131-11-3 | Dimethyl phthalate | 59 | U | 59 | 20 |
| 206-44-0 | Fluoranthene | 11 | | 7.9 | 3.9 |
| 86-73-7 | Fluorene | 7.9 | U | 7.9 | 3.9 |
| 118-74-1 | Hexachlorobenzene | 7.9 | U | 7.9 | 2.5 |
| 87-68-3 | Hexachlorobutadiene | 59 | U | 59 | 32 |
| 77-47-4 | Hexachlorocyclopentadiene | 390 | U | 390 | 32 |
| 67-72-1 | Hexachloroethane | 59 | U | 59 | 11 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 7.9 | U | 7.9 | 3.9 |
| 78-59-1 | Isophorone | 59 | U | 59 | 15 |
| 621-64-7 | N-Nitrosodi-n-propylamine | 59 | U | 59 | 32 |
| 62-75-9 | N-Nitrosodimethylamine | 120 | U | 120 | 19 |
| 86-30-6 | N-Nitrosodiphenylamine | 59 | U | 59 | 25 |
| 91-20-3 | Naphthalene | 7.9 | U | 7.9 | 3.9 |
| 98-95-3 | Nitrobenzene | 120 | U | 120 | 2.6 |
| 87-86-5 | Pentachlorophenol | 180 | U | 180 | 94 |
| 85-01-8 | Phenanthrene | 6.9 | J | 7.9 | 3.9 |
| 108-95-2 | Phenol | 59 | U | 59 | 32 |
| 129-00-0 | Pyrene | 18 | | 7.9 | 3.9 |
| 108-60-1 | 2,2'-oxybis[1-chloropropane] | 120 | U | 120 | 11 |
| 606-20-2 | 2,6-Dinitrotoluene | 240 | U | 240 | 25 |
| 100-02-7 | 4-Nitrophenol | 390 | U | 390 | 94 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS21-8-10 | Lab Sample ID: 240-13043-7

Matrix: Solid | Lab File ID: 20720018.D

Analysis Method: 8270D | Date Collected: 07/09/2012 14:35

Extract. Method: 3540C | Date Extracted: 07/18/2012 11:30

Sample wt/vol: 29.94(g) | Date Analyzed: 07/20/2012 14:53

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 15.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51476 | Units: ug/Kg

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 1718-51-0 | Terphenyl-d14 (Surr) | 93 | | 41-119 |
| 4165-62-2 | Phenol-d5 (Surr) | 89 | | 28-110 |
| 4165-60-0 | Nitrobenzene-d5 (Surr) | 59 | | 24-112 |
| 367-12-4 | 2-Fluorophenol (Surr) | 85 | | 26-110 |
| 321-60-8 | 2-Fluorobiphenyl (Surr) | 55 | | 34-110 |
| 118-79-6 | 2,4,6-Tribromophenol (Surr) | 66 | | 10-118 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS19-0-2 | Lab Sample ID: 240-13043-2

Matrix: Solid | Lab File ID: YF071821.D

Analysis Method: 8015C | Date Collected: 07/09/2012 11:40

Sample wt/vol: 5(g) | Date Analyzed: 07/19/2012 02:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VRX ID: 0.45(mm)

% Moisture: 16.2 | Level: (low/med) Low

Analysis Batch No.: 51212 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 8006-61-9 | Total Petroleum Hydrocarbons (C6-C10) | 120 | U | 120 | 55 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 98-08-8 | Trifluorotoluene (Surr) | 82 | | 10-150 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS19-8-10 Lab Sample ID: 240-13043-3

Matrix: Solid Lab File ID: YF071822.D

Analysis Method: 8015C Date Collected: 07/09/2012 11:45

Sample wt/vol: 5(g) Date Analyzed: 07/19/2012 02:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VRX ID: 0.45(mm)

% Moisture: 14.2 Level: (low/med) Low

Analysis Batch No.: 51212 Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 8006-61-9 | Total Petroleum Hydrocarbons (C6-C10) | 120 | U | 120 | 54 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 98-08-8 | Trifluorotoluene (Surr) | 83 | | 10-150 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS20-0-2 Lab Sample ID: 240-13043-4

Matrix: Solid Lab File ID: YF071823.D

Analysis Method: 8015C Date Collected: 07/09/2012 13:40

Sample wt/vol: 5(g) Date Analyzed: 07/19/2012 03:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VRX ID: 0.45(mm)

% Moisture: 14.7 Level: (low/med) Low

Analysis Batch No.: 51212 Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 8006-61-9 | Total Petroleum Hydrocarbons (C6-C10) | 120 | U | 120 | 54 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 98-08-8 | Trifluorotoluene (Surr) | 85 | | 10-150 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS20-8-10 | Lab Sample ID: 240-13043-5

Matrix: Solid | Lab File ID: YF071824.D

Analysis Method: 8015C | Date Collected: 07/09/2012 13:45

Sample wt/vol: 5(g) | Date Analyzed: 07/19/2012 04:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VRX ID: 0.45(mm)

% Moisture: 17.8 | Level: (low/med) Low

Analysis Batch No.: 51212 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 8006-61-9 | Total Petroleum Hydrocarbons (C6-C10) | 120 | U | 120 | 56 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 98-08-8 | Trifluorotoluene (Surr) | 79 | | 10-150 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS21-0-2  Lab Sample ID: 240-13043-6

Matrix: Solid  Lab File ID: YF071825.D

Analysis Method: 8015C  Date Collected: 07/09/2012 14:30

Sample wt/vol: 5(g)  Date Analyzed: 07/19/2012 04:39

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-VRX  ID: 0.45(mm)

% Moisture: 15.2  Level: (low/med) Low

Analysis Batch No.: 51212  Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 8006-61-9 | Total Petroleum Hydrocarbons (C6-C10) | 120 | U | 120 | 54 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 98-08-8 | Trifluorotoluene (Surr) | 83 | | 10-150 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS21-8-10  Lab Sample ID: 240-13043-7

Matrix: Solid  Lab File ID: YF071826.D

Analysis Method: 8015C  Date Collected: 07/09/2012 14:35

Sample wt/vol: 5(g)  Date Analyzed: 07/19/2012 05:18

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-VRX  ID: 0.45(mm)

% Moisture: 15.0  Level: (low/med) Low

Analysis Batch No.: 51212  Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 8006-61-9 | Total Petroleum Hydrocarbons (C6-C10) | 120 | U | 120 | 54 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 98-08-8 | Trifluorotoluene (Surr) | 77 | | 10-150 |

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS19-0-2  Lab Sample ID: 240-13043-2

Matrix: Solid  Lab File ID: P6B72005.D

Analysis Method: 8015C  Date Collected: 07/09/2012 11:40

Extraction Method: 3540C  Date Extracted: 07/17/2012 09:14

Sample wt/vol: 29.96(g)  Date Analyzed: 07/20/2012 12:31

Con. Extract Vol.: 5(mL)  Dilution Factor: 1

Injection Volume: 1(uL)  GC Column: RTX-5  ID: 0.53(mm)

% Moisture: 16.2  GPC Cleanup:(Y/N) N

Analysis Batch No.: 51479  Units: mg/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| STL00141 | Total Petroleum Hydrocarbons (C10-C32) | 11 | J B | 20 | 11 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 111-84-2 | n-Nonane | 34 | | 10-110 |

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS19-8-10 Lab Sample ID: 240-13043-3

Matrix: Solid Lab File ID: P6B72006.D

Analysis Method: 8015C Date Collected: 07/09/2012 11:45

Extraction Method: 3540C Date Extracted: 07/17/2012 09:14

Sample wt/vol: 29.80(g) Date Analyzed: 07/20/2012 13:02

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-5 ID: 0.53(mm)

% Moisture: 14.2 GPC Cleanup:(Y/N) N

Analysis Batch No.: 51479 Units: mg/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| STL00141 | Total Petroleum Hydrocarbons (C10-C32) | 20 | U | 20 | 11 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 111-84-2 | n-Nonane | 39 | | 10-110 |

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS20-0-2 Lab Sample ID: 240-13043-4

Matrix: Solid Lab File ID: P6B72007.D

Analysis Method: 8015C Date Collected: 07/09/2012 13:40

Extraction Method: 3540C Date Extracted: 07/17/2012 09:14

Sample wt/vol: 29.95(g) Date Analyzed: 07/20/2012 13:34

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-5 ID: 0.53(mm)

% Moisture: 14.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 51479 Units: mg/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| STL00141 | Total Petroleum Hydrocarbons (C10-C32) | 20 | U | 20 | 11 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 111-84-2 | n-Nonane | 38 | | 10-110 |

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS20-8-10 | Lab Sample ID: 240-13043-5

Matrix: Solid | Lab File ID: P6B72008.D

Analysis Method: 8015C | Date Collected: 07/09/2012 13:45

Extraction Method: 3540C | Date Extracted: 07/17/2012 09:14

Sample wt/vol: 29.98(g) | Date Analyzed: 07/20/2012 14:05

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-5 ID: 0.53(mm)

% Moisture: 17.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51479 | Units: mg/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| STL00141 | Total Petroleum Hydrocarbons (C10-C32) | 20 | U | 20 | 11 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 111-84-2 | n-Nonane | 40 | | 10-110 |

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS21-0-2 | Lab Sample ID: 240-13043-6

Matrix: Solid | Lab File ID: P6B72009.D

Analysis Method: 8015C | Date Collected: 07/09/2012 14:30

Extraction Method: 3540C | Date Extracted: 07/17/2012 09:14

Sample wt/vol: 30.08(g) | Date Analyzed: 07/20/2012 14:36

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-5 ID: 0.53(mm)

% Moisture: 15.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51479 | Units: mg/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| STL00141 | Total Petroleum Hydrocarbons (C10-C32) | 20 | U | 20 | 11 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 111-84-2 | n-Nonane | 36 | | 10-110 |

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS21-8-10  Lab Sample ID: 240-13043-7

Matrix: Solid  Lab File ID: P6B72010.D

Analysis Method: 8015C  Date Collected: 07/09/2012 14:35

Extraction Method: 3540C  Date Extracted: 07/17/2012 09:14

Sample wt/vol: 29.86(g)  Date Analyzed: 07/20/2012 15:08

Con. Extract Vol.: 5(mL)  Dilution Factor: 1

Injection Volume: 1(uL)  GC Column: RTX-5  ID: 0.53(mm)

% Moisture: 15.0  GPC Cleanup:(Y/N) N

Analysis Batch No.: 51479  Units: mg/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| STL00141 | Total Petroleum Hydrocarbons (C10-C32) | 20 | U | 20 | 11 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 111-84-2 | n-Nonane | 37 | | 10-110 |

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS19-0-2 | Lab Sample ID: 240-13043-2

Matrix: Solid | Lab File ID: P1300008.D

Analysis Method: 8082A | Date Collected: 07/09/2012 11:40

Extraction Method: 3540C | Date Extracted: 07/17/2012 08:46

Sample wt/vol: 29.69(g) | Date Analyzed: 07/19/2012 02:46

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(mL) | GC Column: CLP-2 ID: 0.53(mm)

% Moisture: 16.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51268 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 40 | U | 40 | 25 |
| 11104-28-2 | Aroclor-1221 | 40 | U | 40 | 19 |
| 11141-16-5 | Aroclor-1232 | 40 | U | 40 | 17 |
| 53469-21-9 | Aroclor-1242 | 40 | U | 40 | 16 |
| 12672-29-6 | Aroclor-1248 | 40 | U | 40 | 20 |
| 11097-69-1 | Aroclor-1254 | 40 | U | 40 | 20 |
| 11096-82-5 | Aroclor-1260 | 40 | U | 40 | 20 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 877-09-8 | Tetrachloro-m-xylene | 70 | | 29-151 |
| 2051-24-3 | Decachlorobiphenyl | 100 | | 14-163 |

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS19-8-10 | Lab Sample ID: 240-13043-3

Matrix: Solid | Lab File ID: P1300009.D

Analysis Method: 8082A | Date Collected: 07/09/2012 11:45

Extraction Method: 3540C | Date Extracted: 07/17/2012 08:46

Sample wt/vol: 29.98(g) | Date Analyzed: 07/19/2012 03:01

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(mL) | GC Column: CLP-2 ID: 0.53(mm)

% Moisture: 14.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51268 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 38 | U | 38 | 24 |
| 11104-28-2 | Aroclor-1221 | 38 | U | 38 | 19 |
| 11141-16-5 | Aroclor-1232 | 38 | U | 38 | 16 |
| 53469-21-9 | Aroclor-1242 | 38 | U | 38 | 15 |
| 12672-29-6 | Aroclor-1248 | 38 | U | 38 | 20 |
| 11097-69-1 | Aroclor-1254 | 38 | U | 38 | 20 |
| 11096-82-5 | Aroclor-1260 | 38 | U | 38 | 20 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 877-09-8 | Tetrachloro-m-xylene | 81 | | 29-151 |
| 2051-24-3 | Decachlorobiphenyl | 102 | | 14-163 |

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS20-0-2 Lab Sample ID: 240-13043-4

Matrix: Solid Lab File ID: P1300008.D

Analysis Method: 8082A Date Collected: 07/09/2012 13:40

Extraction Method: 3540C Date Extracted: 07/17/2012 08:46

Sample wt/vol: 30.01(g) Date Analyzed: 07/19/2012 14:54

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(mL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: 14.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 51369 Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 39 | U | 39 | 25 |
| 11104-28-2 | Aroclor-1221 | 39 | U | 39 | 19 |
| 11141-16-5 | Aroclor-1232 | 39 | U | 39 | 16 |
| 53469-21-9 | Aroclor-1242 | 39 | U | 39 | 15 |
| 12672-29-6 | Aroclor-1248 | 39 | U | 39 | 20 |
| 11097-69-1 | Aroclor-1254 | 39 | U | 39 | 20 |
| 11096-82-5 | Aroclor-1260 | 39 | U | 39 | 20 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 877-09-8 | Tetrachloro-m-xylene | 90 | | 29-151 |
| 2051-24-3 | Decachlorobiphenyl | 83 | | 14-163 |

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS20-8-10 | Lab Sample ID: 240-13043-5

Matrix: Solid | Lab File ID: P1300009.D

Analysis Method: 8082A | Date Collected: 07/09/2012 13:45

Extraction Method: 3540C | Date Extracted: 07/17/2012 08:46

Sample wt/vol: 29.74(g) | Date Analyzed: 07/19/2012 15:09

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(mL) | GC Column: CLP-2 ID: 0.53(mm)

% Moisture: 17.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51369 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 41 | U | 41 | 26 |
| 11104-28-2 | Aroclor-1221 | 41 | U | 41 | 20 |
| 11141-16-5 | Aroclor-1232 | 41 | U | 41 | 17 |
| 53469-21-9 | Aroclor-1242 | 41 | U | 41 | 16 |
| 12672-29-6 | Aroclor-1248 | 41 | U | 41 | 21 |
| 11097-69-1 | Aroclor-1254 | 41 | U | 41 | 21 |
| 11096-82-5 | Aroclor-1260 | 41 | U | 41 | 21 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 877-09-8 | Tetrachloro-m-xylene | 95 | | 29-151 |
| 2051-24-3 | Decachlorobipheny1 | 117 | | 14-163 |

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS21-0-2 | Lab Sample ID: 240-13043-6

Matrix: Solid | Lab File ID: P1300010.D

Analysis Method: 8082A | Date Collected: 07/09/2012 14:30

Extraction Method: 3540C | Date Extracted: 07/17/2012 08:46

Sample wt/vol: 29.93(g) | Date Analyzed: 07/19/2012 15:24

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(mL) | GC Column: CLP-2 ID: 0.53(mm)

% Moisture: 15.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51369 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 39 | U | 39 | 25 |
| 11104-28-2 | Aroclor-1221 | 39 | U | 39 | 19 |
| 11141-16-5 | Aroclor-1232 | 39 | U | 39 | 17 |
| 53469-21-9 | Aroclor-1242 | 39 | U | 39 | 15 |
| 12672-29-6 | Aroclor-1248 | 39 | U | 39 | 20 |
| 11097-69-1 | Aroclor-1254 | 39 | U | 39 | 20 |
| 11096-82-5 | Aroclor-1260 | 39 | U | 39 | 20 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 877-09-8 | Tetrachloro-m-xylene | 76 | | 29-151 |
| 2051-24-3 | Decachlorobiphenyl | 116 | | 14-163 |

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS21-8-10 | Lab Sample ID: 240-13043-7

Matrix: Solid | Lab File ID: P1300013.D

Analysis Method: 8082A | Date Collected: 07/09/2012 14:35

Extraction Method: 3540C | Date Extracted: 07/17/2012 08:46

Sample wt/vol: 30.14(g) | Date Analyzed: 07/19/2012 06:17

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(mL) | GC Column: CLP-2 ID: 0.53(mm)

% Moisture: 15.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51268 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 39 | U | 39 | 25 |
| 11104-28-2 | Aroclor-1221 | 39 | U | 39 | 19 |
| 11141-16-5 | Aroclor-1232 | 39 | U | 39 | 16 |
| 53469-21-9 | Aroclor-1242 | 39 | U | 39 | 15 |
| 12672-29-6 | Aroclor-1248 | 39 | U | 39 | 20 |
| 11097-69-1 | Aroclor-1254 | 39 | U | 39 | 20 |
| 11096-82-5 | Aroclor-1260 | 39 | U | 39 | 20 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 877-09-8 | Tetrachloro-m-xylene | 55 | | 29-151 |
| 2051-24-3 | Decachlorobiphenyl | 74 | | 14-163 |

# APPENDIX C

## SUPPORT DOCUMENTATION

# HOLDTIME

**SDG** 240-13043-1

| SORT | UNITS | NSAMPLE | LAB_ID | QC_TYPE | SAMP_DATE | EXTR_DATE | ANAL_DATE | SMP_EXTR | EXTR_ANL | SMP_ANL |
|---|---|---|---|---|---|---|---|---|---|---|
| HG | MG/KG | MT-SS19-0-2 | 240-13043-2 | NM | 7/9/2012 | 7/12/2012 | 7/13/2012 | 3 | 1 | 4 |
| HG | MG/KG | MT-SS19-8-10 | 240-13043-3 | NM | 7/9/2012 | 7/12/2012 | 7/13/2012 | 3 | 1 | 4 |
| HG | MG/KG | MT-SS20-0-2 | 240-13043-4 | NM | 7/9/2012 | 7/12/2012 | 7/13/2012 | 3 | 1 | 4 |
| HG | MG/KG | MT-SS20-8-10 | 240-13043-5 | NM | 7/9/2012 | 7/12/2012 | 7/13/2012 | 3 | 1 | 4 |
| HG | MG/KG | MT-SS21-0-2 | 240-13043-6 | NM | 7/9/2012 | 7/12/2012 | 7/13/2012 | 3 | 1 | 4 |
| HG | MG/KG | MT-SS21-8-10 | 240-13043-7 | NM | 7/9/2012 | 7/12/2012 | 7/13/2012 | 3 | 1 | 4 |
| M | MG/KG | MT-SS21-0-2 | 240-13043-6 | NM | 7/9/2012 | 7/12/2012 | 7/16/2012 | 3 | 4 | 7 |
| M | MG/KG | MT-SS19-0-2 | 240-13043-2 | NM | 7/9/2012 | 7/12/2012 | 7/16/2012 | 3 | 4 | 7 |
| M | MG/KG | MT-SS19-8-10 | 240-13043-3 | NM | 7/9/2012 | 7/12/2012 | 7/16/2012 | 3 | 4 | 7 |
| M | MG/KG | MT-SS20-8-10 | 240-13043-5 | NM | 7/9/2012 | 7/12/2012 | 7/16/2012 | 3 | 4 | 7 |
| M | MG/KG | MT-SS21-8-10 | 240-13043-7 | NM | 7/9/2012 | 7/12/2012 | 7/16/2012 | 3 | 4 | 7 |
| M | MG/KG | MT-SS20-0-2 | 240-13043-4 | NM | 7/9/2012 | 7/12/2012 | 7/16/2012 | 3 | 4 | 7 |
| OS | UG/KG | MT-SS19-0-2 | 240-13043-2 | NM | 7/9/2012 | 7/17/2012 | 7/19/2012 | 8 | 2 | 10 |
| OS | UG/KG | MT-SS21-8-10 | 240-13043-7 | NM | 7/9/2012 | 7/18/2012 | 7/20/2012 | 9 | 2 | 11 |
| OS | UG/KG | MT-SS21-0-2 | 240-13043-6 | NM | 7/9/2012 | 7/18/2012 | 7/20/2012 | 9 | 2 | 11 |

| SORT | UNITS | NSAMPLE | LAB_ID | QC_TYPE | SAMP_DATE | EXTR_DATE | ANAL_DATE | SMP_EXTR | EXTR_ANL | SMP_ANL |
|---|---|---|---|---|---|---|---|---|---|---|
| OS | UG/KG | MT-SS20-8-10 | 240-13043-5 | NM | 7/9/2012 | 7/18/2012 | 7/20/2012 | 9 | 2 | 11 |
| OS | UG/KG | MT-SS20-0-2 | 240-13043-4 | NM | 7/9/2012 | 7/18/2012 | 7/20/2012 | 9 | 2 | 11 |
| OS | UG/KG | MT-SS19-8-10 | 240-13043-3 | NM | 7/9/2012 | 7/18/2012 | 7/20/2012 | 9 | 2 | 11 |
| OV | UG/KG | MT-SS19-8-10 | 240-13043-3 | NM | 7/10/2012 | 7/10/2012 | 7/12/2012 | 0 | 2 | 2 |
| OV | UG/KG | MT-SS21-8-10 | 240-13043-7 | NM | 7/10/2012 | 7/10/2012 | 7/12/2012 | 0 | 2 | 2 |
| OV | UG/KG | MT-SS21-0-2 | 240-13043-6 | NM | 7/10/2012 | 7/10/2012 | 7/12/2012 | 0 | 2 | 2 |
| OV | UG/KG | MT-SS20-8-10 | 240-13043-5 | NM | 7/10/2012 | 7/10/2012 | 7/12/2012 | 0 | 2 | 2 |
| OV | UG/KG | MT-SS20-0-2 | 240-13043-4 | NM | 7/10/2012 | 7/10/2012 | 7/12/2012 | 0 | 2 | 2 |
| OV | UG/KG | MT-SS19-0-2 | 240-13043-2 | NM | 7/10/2012 | 7/10/2012 | 7/12/2012 | 0 | 2 | 2 |
| OV | UG/L | TB-070912 | 240-13043-1 | NM | 7/9/2012 | 7/13/2012 | 7/13/2012 | 4 | 0 | 4 |
| PCB | UG/KG | MT-SS20-8-10 | 240-13043-5 | NM | 7/9/2012 | 7/17/2012 | 7/19/2012 | 8 | 2 | 10 |
| PCB | UG/KG | MT-SS19-0-2 | 240-13043-2 | NM | 7/9/2012 | 7/17/2012 | 7/19/2012 | 8 | 2 | 10 |
| PCB | UG/KG | MT-SS21-0-2 | 240-13043-6 | NM | 7/9/2012 | 7/17/2012 | 7/19/2012 | 8 | 2 | 10 |
| PCB | UG/KG | MT-SS19-8-10 | 240-13043-3 | NM | 7/9/2012 | 7/17/2012 | 7/19/2012 | 8 | 2 | 10 |
| PCB | UG/KG | MT-SS21-8-10 | 240-13043-7 | NM | 7/9/2012 | 7/17/2012 | 7/19/2012 | 8 | 2 | 10 |
| PCB | UG/KG | MT-SS20-0-2 | 240-13043-4 | NM | 7/9/2012 | 7/17/2012 | 7/19/2012 | 8 | 2 | 10 |
| DRO | MG/KG | MT-SS19-0-2 | 240-13043-2 | NM | 7/9/2012 | 7/17/2012 | 7/20/2012 | 8 | 3 | 11 |
| DRO | MG/KG | MT-SS21-8-10 | 240-13043-7 | NM | 7/9/2012 | 7/17/2012 | 7/20/2012 | 8 | 3 | 11 |

| SORT | UNITS | NSAMPLE | LAB_ID | QC_TYPE | SAMP_DATE | EXTR_DATE | ANAL_DATE | SMP_EXTR | EXTR_ANL | SMP_ANL |
|---|---|---|---|---|---|---|---|---|---|---|
| DRO | MG/KG | MT-SS21-0-2 | 240-13043-6 | NM | 7/9/2012 | 7/17/2012 | 7/20/2012 | 8 | 3 | 11 |
| DRO | MG/KG | MT-SS20-8-10 | 240-13043-5 | NM | 7/9/2012 | 7/17/2012 | 7/20/2012 | 8 | 3 | 11 |
| DRO | MG/KG | MT-SS20-0-2 | 240-13043-4 | NM | 7/9/2012 | 7/17/2012 | 7/20/2012 | 8 | 3 | 11 |
| DRO | MG/KG | MT-SS19-8-10 | 240-13043-3 | NM | 7/9/2012 | 7/17/2012 | 7/20/2012 | 8 | 3 | 11 |
| GRO | UG/KG | MT-SS21-8-10 | 240-13043-7 | NM | 7/9/2012 | 7/19/2012 | 7/19/2012 | 10 | 0 | 10 |
| GRO | UG/KG | MT-SS21-0-2 | 240-13043-6 | NM | 7/9/2012 | 7/19/2012 | 7/19/2012 | 10 | 0 | 10 |
| GRO | UG/KG | MT-SS20-8-10 | 240-13043-5 | NM | 7/9/2012 | 7/19/2012 | 7/19/2012 | 10 | 0 | 10 |
| GRO | UG/KG | MT-SS20-0-2 | 240-13043-4 | NM | 7/9/2012 | 7/19/2012 | 7/19/2012 | 10 | 0 | 10 |
| GRO | UG/KG | MT-SS19-8-10 | 240-13043-3 | NM | 7/9/2012 | 7/19/2012 | 7/19/2012 | 10 | 0 | 10 |
| GRO | UG/KG | MT-SS19-0-2 | 240-13043-2 | NM | 7/9/2012 | 7/19/2012 | 7/19/2012 | 10 | 0 | 10 |

# Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

| Client Contact | Client Project Manager: | Site Contact: | Lab Contact: | COC No: |
|---|---|---|---|---|
| Company Name: Tetra Tech Inc. | Tony Aparnavage | Stu Cameron | Pat O'Meara | 1 of 1 COCs |
| Address: 20251 Century Blvd. | Telephone: 301 528-3021 | Telephone: 703 342-9389 | Telephone: 330 457-9396 | |
| City/State/Zip: Germantown, MD 20874 | Email: | | | |
| Phone: 301 528-3021 | | TAT if different from below: ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day | Analyses | |
| Project Name: NSA-MT Soil Boring Sampling | Method of Shipment/Carrier: Fed EX | | | |
| Project Number: 112IC04054-04 | Shipping/Tracking No: | | | |
| PO# | | | | |

| Sample Identification | Sample Date | Sample Time | Matrix: Air | Aqueous | Sediment | Solid | Other | Preservation: H2SO4 | HNO3 | HCl | NaOH | ZnAc/ NaOH | Unpres | Other: Alcohol | Field Filtered | Perform MS/MSD (Y/N) | VOCs | SVOCs / PCBs | Metals | Gas | VOCs | Sample Specific Notes / Special Instructions: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TB-070912 | 7-9-12 | — | | X | | | | | | 2 | | | | | W | G | X | | | | | |
| MT-SS19-0-2 | | 1140 | | | | X | | | | | | | 4 | 3 | | | X | X | X | X | X | |
| ~~MT-SB19-8-10~~ MT-SS19-8-10 | | 1145 | | | | X | | | | | | | 4 | 3 | | | X | X | X | X | X | |
| MT-SS20-0-2 | | 1340 | | | | X | | | | | | | 4 | 3 | | | X | X | X | X | X | |
| ~~MT-SB20-8-10~~ MT-SS20-8-10 | | 1345 | | | | X | | | | | | | 4 | 3 | | | X | X | X | X | X | |
| ~~MT-SB21-0-2~~ MT-SS21-0-2 | | 1430 | | | | X | | | | | | | 4 | 3 | | | X | X | X | X | X | |
| ~~MT-SB21-8-10~~ MT-SS21-8-10 | | 1435 | | | | X | | | | | | | 4 | 3 | | | X | X | X | X | X | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |

AC 11/29/12

Page 13 of 13

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return to Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

| Relinquished by: | Company: | Date/Time: | Received by: | Company: | Date/Time: |
|---|---|---|---|---|---|
| Relinquished by: | Company: | Date/Time: | Received by: | Company: | Date/Time: |
| Relinquished by: | Company: | Date/Time: | Received in Laboratory by: | Company: | Date/Time: |
| | Tetra Tech | 7-9-12 / 1515 | | TAL | 7/10/12 830 |

07/26/2012

TAL-0016 (1008)

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**TestAmerica North Canton Sample Receipt Form/Narrative** Login # : 13043

Client TETRA TECH Site Name _____ By: Terrell Cook
(Signature)

Cooler Received on 7-10-12 Opened on 7-10-12

FedEx: 1st Grd (Exp) UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

TestAmerica Cooler # _____ Foam Box (Client Cooler) Box Other _____

Packing material used: (Bubble Wrap) Foam (Plastic Bag) None Other _____

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

| | | | | |
|---|---|---|---|---|
| IR GUN# 1 | (CF 0°C) | Observed Sample Temp. _____ °C | Corrected Sample Temp. _____ °C | |
| IR GUN# 4G | (CF –1°C) | Observed Sample Temp. _____ °C | Corrected Sample Temp. _____ °C | ☐ Multiple on Back |
| IR GUN# 5G | (CF –1°C) | Observed Sample Temp. _____ °C | Corrected Sample Temp. _____ °C | |
| IR GUN# 8 | (CF 0°C) | Observed Sample Temp. 1.6 °C | Corrected Sample Temp. 1.6 °C | |

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 (Yes) No
   -Were custody seals on the outside of the cooler(s) signed & dated? (Yes) No NA
   -Were custody seals on the bottle(s)? Yes (No)
3. Shippers' packing slip attached to the cooler(s)? (Yes) No
4. Did custody papers accompany the sample(s)? (Yes) No
5. Were the custody papers relinquished & signed in the appropriate place? (Yes) No
6. Did all bottles arrive in good condition (Unbroken)? (Yes) No
7. Could all bottle labels be reconciled with the COC? (Yes) No
8. Were correct bottle(s) used for the test(s) indicated? (Yes) No
9. Sufficient quantity received to perform indicated analyses? (Yes) No
10. Were sample(s) at the correct pH upon receipt? Yes No (NA)
11. Were VOAs on the COC? Yes (No)
12. Were air bubbles >6 mm in any VOA vials? Yes No (NA)
13. Was a trip blank present in the cooler(s)? (Yes) No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

**14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES**

**15. SAMPLE CONDITION**

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

## 16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). Nitric Acid Lot# 110410-HNO3; Sulfuric Acid Lot# 041911-H2SO4; Sodium Hydroxide Lot# 121809 - NaOH; Hydrochloric Acid Lot# 041911-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-(CH3COO)2ZN/NaOH. What time was preservative added to sample(s)? _____

| Client ID | pH | Date | Initials |
|---|---|---|---|
| | | | |
| | | | |
| | | | |

# Login Sample Receipt Checklist

Client: Tetra Tech, Inc

Job Number: 240-13043-1

**Login Number: 13043**
**List Number: 1**
**Creator: Livengood, Chris**

**List Source: TestAmerica Canton**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the sample IDs on the containers and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

## CASE NARRATIVE

## Client: Tetra Tech, Inc

## Project: MSA-MT SOIL BORING

## Report Number: 240-13043-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 07/10/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 1.6 C.

The following samples were logged for TPH DRO analysis per client request: MT-SS19-0-2 (240-13043-2), MT-SS19-8-10 (240-13043-3), MT-SS20-0-2 (240-13043-4), MT-SS20-8-10 (240-13043-5), MT-SS21-0-2 (240-13043-6), and MT-SS21-8-10 (240-13043-7). This analysis was not originally requested on the chain-of-custody (COC).

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MT-SS19-0-2 (240-13043-2), MT-SS19-8-10 (240-13043-3), MT-SS20-0-2 (240-13043-4), MT-SS20-8-10 (240-13043-5), MT-SS21-0-2 (240-13043-6) and MT-SS21-8-10 (240-13043-7) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were prepared on 07/10/2012 and analyzed on 07/12/2012.

Acetone was detected in method blank MB 240-50546/7 at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Methylene Chloride and Naphthalene were detected in method blank MB 240-50546/7 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

The laboratory control sample (LCS) for batch 50546 exceeded control limits for the following analyte: Acetone. This compound has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Insufficient sample volume was available to meet method-mandated requirements for matrix spike/matrix spike duplicate (MS/MSD) analyses for batch 50546.

No other difficulties were encountered during the VOCs analyses. All other quality control parameters were within the acceptance limits.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Sample TB-070912 (240-13043-1) was analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 07/13/2012.

1,2,3-Trichlorobenzene, Naphthalene and tert-Butyl alcohol were detected in method blank MB 240-50786/5 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

2-Chloroethyl vinyl ether and tert-Butyl alcohol failed the recovery criteria low for the MS/MSD of sample 240-13086-8 in batch 240-50786.

No other difficulties were encountered during the VOCs analysis. All other quality control parameters were within the acceptance limits.

**SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)**
Samples MT-SS19-0-2 (240-13043-2), MT-SS19-8-10 (240-13043-3), MT-SS20-0-2 (240-13043-4), MT-SS20-8-10 (240-13043-5), MT-SS21-0-2 (240-13043-6) and MT-SS21-8-10 (240-13043-7) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 07/17/2012 and 07/18/2012 and analyzed on 07/19/2012 and 07/20/2012.

Bis(2-ethylhexyl) phthalate was detected in method blank MB 240-51193/23-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

The continuing calibration verification (CCV) for 1,4-dioxane, associated with batch 51296 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No other difficulties were encountered during the SVOCs analyses. All other quality control parameters were within the acceptance limits.

**GASOLINE RANGE ORGANICS (GRO)**
Samples MT-SS19-0-2 (240-13043-2), MT-SS19-8-10 (240-13043-3), MT-SS20-0-2 (240-13043-4), MT-SS20-8-10 (240-13043-5), MT-SS21-0-2 (240-13043-6) and MT-SS21-8-10 (240-13043-7) were analyzed for gasoline range organics (GRO) in accordance with EPA-SW-846 Method 8015C - GRO. The samples were analyzed on 07/19/2012.

No difficulties were encountered during the GRO analyses. All quality control parameters were within the acceptance limits.

**DIESEL RANGE ORGANICS (DRO)**
Samples MT-SS19-0-2 (240-13043-2), MT-SS19-8-10 (240-13043-3), MT-SS20-0-2 (240-13043-4), MT-SS20-8-10 (240-13043-5), MT-SS21-0-2 (240-13043-6) and MT-SS21-8-10 (240-13043-7) were analyzed for diesel range organics (DRO)in accordance with EPA SW-846 Method 8015C - DRO. The samples were prepared on 07/17/2012 and analyzed on 07/20/2012.

Total Petroleum Hydrocarbons (C10-C32) was detected in method blank MB 240-51014/22-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

No other difficulties were encountered during the DRO analyses. All other quality control parameters were within the acceptance limits.

**POLYCHLORINATED BIPHENYLS (PCBS)**
Samples MT-SS19-0-2 (240-13043-2), MT-SS19-8-10 (240-13043-3), MT-SS20-0-2 (240-13043-4), MT-SS20-8-10 (240-13043-5), MT-SS21-0-2 (240-13043-6) and MT-SS21-8-10 (240-13043-7) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082A. The samples were prepared on 07/17/2012 and analyzed on 07/19/2012.

The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: MT-SS19-0-2 (240-13043-2) and MT-SS21-8-10 (240-13043-7). Lot # S65830.

No other difficulties were encountered during the PCBs analyses. All quality control parameters were within the acceptance limits.

**TOTAL METALS (ICP)**
Samples MT-SS19-0-2 (240-13043-2), MT-SS19-8-10 (240-13043-3), MT-SS20-0-2 (240-13043-4), MT-SS20-8-10 (240-13043-5), MT-SS21-0-2 (240-13043-6) and MT-SS21-8-10 (240-13043-7) were analyzed for total metals (ICP)in accordance with EPA SW-846 Method 6010C. The samples were prepared on 07/12/2012 and analyzed on 07/16/2012.

Antimony, Barium and Beryllium were detected in method blank MB 240-50598/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

Several analytes failed the recovery criteria low for the MS of sample MT-SS19-0-2 (240-13043-2) in batch 240-51051. Antimony, Chromium, Selenium and Vanadium failed the recovery criteria low for the MSD of sample MT-SS19-0-2 (240-13043-2) in batch 240-51051.

A matrix spike and matrix spike duplicate were performed on sample MT-SS19-0-2 (240-13043-2) instead of a matrix spike and laboratory duplicate.

No other difficulties were encountered during the metals analyses. All other quality control parameters were within the acceptance limits.

# METHOD SUMMARY

Client: Tetra Tech, Inc

Job Number: 240-13043-1

| Description | Lab Location | Method | Preparation Method |
|---|---|---|---|
| **Matrix: Solid** | | | |
| Volatile Organic Compounds (GC/MS) | TAL NC | SW846 8260B | |
| Closed System Purge and Trap | TAL NC | | SW846 5035 |
| Semivolatile Organic Compounds (GC/MS) | TAL NC | SW846 8270D | |
| Soxhlet Extraction | TAL NC | | SW846 3540C |
| Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics) | TAL NC | SW846 8015C | |
| Purge and Trap | TAL NC | | SW846 5030B |
| Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics) | TAL NC | SW846 8015C | |
| Soxhlet Extraction | TAL NC | | SW846 3540C |
| Polychlorinated Biphenyls (PCBs) by Gas Chromatography | TAL NC | SW846 8082A | |
| Soxhlet Extraction | TAL NC | | SW846 3540C |
| Metals (ICP) | TAL NC | SW846 6010C | |
| Preparation, Metals | TAL NC | | SW846 3050B |
| Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique) | TAL NC | SW846 7471B | |
| Preparation, Mercury | TAL NC | | SW846 7471B |
| Percent Moisture | TAL NC | EPA Moisture | |
| **Matrix: Water** | | | |
| Volatile Organic Compounds (GC/MS) | TAL NC | SW846 8260B | |
| Purge and Trap | TAL NC | | SW846 5030B |

**Lab References:**

TAL NC = TestAmerica Canton

**Method References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

## SAMPLE SUMMARY

Client: Tetra Tech, Inc

Job Number: 240-13043-1

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|---|---|---|---|---|
| 240-13043-1 | TB-070912 | Water | 07/09/2012 0000 | 07/10/2012 0830 |
| 240-13043-2 | MT-SS19-0-2 | Solid | 07/09/2012 1140 | 07/10/2012 0830 |
| 240-13043-3 | MT-SS19-8-10 | Solid | 07/09/2012 1145 | 07/10/2012 0830 |
| 240-13043-4 | MT-SS20-0-2 | Solid | 07/09/2012 1340 | 07/10/2012 0830 |
| 240-13043-5 | MT-SS20-8-10 | Solid | 07/09/2012 1345 | 07/10/2012 0830 |
| 240-13043-6 | MT-SS21-0-2 | Solid | 07/09/2012 1430 | 07/10/2012 0830 |
| 240-13043-7 | MT-SS21-8-10 | Solid | 07/09/2012 1435 | 07/10/2012 0830 |

## DATA REPORTING QUALIFIERS

Client: Tetra Tech, Inc

Job Number: 240-13043-1

| Lab Section | Qualifier | Description |
|---|---|---|
| GC/MS VOA | | |
| | B | Compound was found in the blank and sample. |
| | J | Indicates an Estimated Value for TICs |
| | U | Indicates the analyte was analyzed for but not detected. |
| | * | LCS or LCSD exceeds the control limits |
| | F | MS or MSD exceeds the control limits |
| | T | Result is a tentatively identified compound (TIC) and an estimated value. |
| | J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| | N | This flag indicates the presumptive evidence of a compound. |
| GC/MS Semi VOA | | |
| | B | Compound was found in the blank and sample. |
| | U | Indicates the analyte was analyzed for but not detected. |
| | J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| GC VOA | | |
| | U | Indicates the analyte was analyzed for but not detected. |
| GC Semi VOA | | |
| | B | Compound was found in the blank and sample. |
| | U | Indicates the analyte was analyzed for but not detected. |
| | J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

# Method 8260B

## Volatile Organic Compounds (GC/MS) by Method 8260B

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Lab File ID: BFB4823.D  BFB Injection Date: 06/29/2012

Instrument ID: A3UX10  BFB Injection Time: 08:55

Analysis Batch No.: 49387

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 50 | 15.0 - 40.0 % of mass 95 | 15.6 | |
| 75 | 30.0 - 60.0 % of mass 95 | 46.2 | |
| 95 | Base Peak, 100% relative abundance | 100.0 | |
| 96 | 5.0 - 9.0 % of mass 95 | 7.0 | |
| 173 | Less than 2.0 % of mass 174 | 0.3 | (0.4)1 |
| 174 | 50.0 - 120.00 % of mass 95 | 91.9 | |
| 175 | 5.0 - 9.0 % of mass 174 | 6.7 | (7.3)1 |
| 176 | 95.0 - 101.0 % of mass 174 | 88.8 | (96.6)1 |
| 177 | 5.0 - 9.0 % of mass 176 | 5.8 | (6.6)2 |

1-Value is % mass 174  2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | STD8260 240-49387/2 | UXX7453.D | 06/29/2012 | 09:19 |
| | STD8260 240-49387/3 | UXX7454.D | 06/29/2012 | 09:40 |
| | STD8260 240-49387/4 | UXX7455.D | 06/29/2012 | 10:02 |
| | STD8260 240-49387/5 | UXX7456.D | 06/29/2012 | 10:23 |
| | STD8260 240-49387/6 | UXX7457.D | 06/29/2012 | 10:44 |
| | STD8260 240-49387/7 | UXX7458.D | 06/29/2012 | 11:06 |
| | STDA9 240-49387/8 | UXX7459.D | 06/29/2012 | 11:27 |
| | STDA9 240-49387/9 | UXX7460.D | 06/29/2012 | 11:49 |
| | STDA9 240-49387/10 | UXX7461.D | 06/29/2012 | 12:11 |
| | STDA9 240-49387/11 | UXX7462.D | 06/29/2012 | 12:33 |
| | STDA9 240-49387/12 | UXX7463.D | 06/29/2012 | 12:54 |
| | STDA9 240-49387/13 | UXX7464.D | 06/29/2012 | 13:15 |
| | ICV 240-49387/14 | UXX7465.D | 06/29/2012 | 13:37 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 49387

SDG No.:

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/29/2012 09:19 Calibration End Date: 06/29/2012 11:06 Calibration ID: 9788

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD8260 240-49387/7 | UXX7458.D |
| Level 2 | STD8260 240-49387/6 | UXX7457.D |
| Level 3 | STD8260 240-49387/5 | UXX7456.D |
| Level 4 | STD8260 240-49387/4 | UXX7455.D |
| Level 5 | STD8260 240-49387/3 | UXX7454.D |
| Level 6 | STD8260 240-49387/2 | UXX7453.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Dichlorodifluoromethane | 0.1764<br>0.2112 | 0.1880 | 0.1735 | 0.1926 | 0.1882 | Ave | | 0.1883 | | | | 7.1 | | 15.0 | | | |
| Chloromethane | 0.2163<br>0.2431 | 0.2342 | 0.2241 | 0.2363 | 0.2234 | Ave | | 0.2296 | | | 0.1000 | 4.3 | | 15.0 | | | |
| Vinyl chloride | 0.2069<br>0.2382 | 0.2235 | 0.2129 | 0.2289 | 0.2139 | Ave | | 0.2207 | | | | 5.3 | | 15.0 | | | |
| Bromomethane | 0.1179<br>0.1402 | 0.1273 | 0.1186 | 0.1283 | 0.1162 | Ave | | 0.1248 | | | | 7.3 | | 15.0 | | | |
| Chloroethane | 0.1337<br>0.1616 | 0.1486 | 0.1409 | 0.1489 | 0.1417 | Ave | | 0.1459 | | | | 6.5 | | 15.0 | | | |
| Trichlorofluoromethane | 0.2169<br>0.2803 | 0.2422 | 0.2203 | 0.2474 | 0.2402 | Ave | | 0.2412 | | | | 9.4 | | 15.0 | | | |
| Acrolein | 0.0287<br>0.0324 | 0.0297 | 0.0316 | 0.0331 | 0.0332 | Ave | | ~~0.0315~~ | | | | 6.0 | | 15.0 | | | |
| 1,1-Dichloroethene | 0.1921<br>0.2157 | 0.1913 | 0.2008 | 0.2036 | 0.2021 | Ave | | 0.2009 | | | | 4.4 | | 15.0 | | | |
| Acetone | 0.0904<br>0.0472 | 0.0716 | 0.0575 | 0.0548 | 0.0503 | Lin1 | 0.0947 | 0.0472 | | | | | | | 0.9990 | | 0.9900 |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 0.1690<br>0.1912 | 0.1578 | 0.1554 | 0.1796 | 0.1627 | Ave | | 0.1693 | | | | 8.2 | | 15.0 | | | |
| Iodomethane | 0.3173<br>0.3714 | 0.3391 | 0.3413 | 0.3522 | 0.3484 | Ave | | 0.3449 | | | | 5.1 | | 15.0 | | | |
| Carbon disulfide | 0.6202<br>0.7504 | 0.6340 | 0.6576 | 0.6942 | 0.6894 | Ave | | 0.6743 | | | | 7.0 | | 15.0 | | | |
| Acetonitrile | 0.0168<br>0.0122 | 0.0156 | 0.0145 | 0.0153 | 0.0144 | Ave | | 0.0148 | | | | 11.0 | | 15.0 | | | |
| Methyl acetate | 0.1278<br>0.1338 | 0.1325 | 0.1267 | 0.1301 | 0.1289 | Ave | | 0.1300 | | | | 2.1 | | 15.0 | | | |
| Methylene Chloride | 0.4330<br>0.2600 | 0.3444 | 0.2744 | 0.2542 | 0.2446 | Lin1 | 0.1748 | 0.2472 | | | | | | | 0.9980 | | 0.9900 |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-13043-1  Analy Batch No.: 49387

SDG No.:

Instrument ID: A3UX10  GC Column: DB-624  ID: 0.18(mm)  Heated Purge: (Y/N) N

Calibration Start Date: 06/29/2012 09:19  Calibration End Date: 06/29/2012 11:06  Calibration ID: 9788

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| tert-Butyl alcohol | 0.0128<br>0.0102 | 0.0133 | 0.0125 | 0.0129 | 0.0127 | Ave | | 0.0124 | | | | 9.1 | | 15.0 | | | |
| Acrylonitrile | 0.0670<br>0.0720 | 0.0675 | 0.0678 | 0.0726 | 0.0722 | Ave | | 0.0699 | | | | 3.8 | | 15.0 | | | |
| Methyl tert-butyl ether | 0.5510<br>0.6431 | 0.5703 | 0.5926 | 0.6172 | 0.6255 | Ave | | 0.6000 | | | | 5.8 | | 15.0 | | | |
| trans-1,2-Dichloroethene | 0.2100<br>0.2480 | 0.2234 | 0.2296 | 0.2332 | 0.2336 | Ave | | 0.2296 | | | | 5.5 | | 15.0 | | | |
| Hexane | 0.0477<br>0.0594 | 0.0428 | 0.0499 | 0.0565 | 0.0549 | Ave | | 0.0519 | | | | 12.0 | | 15.0 | | | |
| 1,1-Dichloroethane | 0.3351<br>0.3959 | 0.3604 | 0.3698 | 0.3739 | 0.3813 | Ave | | 0.3694 | | | 0.1000 | 5.6 | | 15.0 | | | |
| Vinyl acetate | 0.0305<br>0.0481 | 0.0337 | 0.0400 | 0.0437 | 0.0462 | Linl | -0.024 | 0.0477 | | | | | | | 0.9990 | | 0.9900 |
| 2-Butanone | 0.0721<br>0.0722 | 0.0721 | 0.0700 | 0.0737 | 0.0743 | Ave | | 0.0724 | | | | 2.1 | | 15.0 | | | |
| cis-1,2-Dichloroethene | 0.2360<br>0.2592 | 0.2289 | 0.2387 | 0.2441 | 0.2477 | Ave | | 0.2424 | | | | 4.3 | | 15.0 | | | |
| 2,2-Dichloropropane | 0.2119<br>0.2528 | 0.2180 | 0.2376 | 0.2427 | 0.2428 | Ave | | 0.2343 | | | | 6.8 | | 15.0 | | | |
| Bromochloromethane | 0.1064<br>0.1250 | 0.1124 | 0.1163 | 0.1181 | 0.1191 | Ave | | 0.1162 | | | | 5.4 | | 15.0 | | | |
| ~~Tetrahydrofuran~~ | 0.0510<br>0.0490 | 0.0476 | 0.0474 | 0.0496 | 0.0485 | Ave | | ~~0.0489~~ | | | | 2.8 | | 15.0 | | | |
| Chloroform | 0.3646<br>0.4025 | 0.3600 | 0.3770 | 0.3804 | 0.3813 | Ave | | 0.3776 | | | | 4.0 | | 15.0 | | | |
| 1,1,1-Trichloroethane | 0.2751<br>0.3290 | 0.2877 | 0.2959 | 0.3080 | 0.3069 | Ave | | 0.3004 | | | | 6.2 | | 15.0 | | | |
| Cyclohexane | 0.3258<br>0.4131 | 0.3126 | 0.3432 | 0.3802 | 0.3755 | Ave | | 0.3584 | | | | 11.0 | | 15.0 | | | |
| 1,1-Dichloropropene | 0.2705<br>0.3220 | 0.2724 | 0.2837 | 0.3006 | 0.3029 | Ave | | 0.2920 | | | | 6.9 | | 15.0 | | | |
| Carbon tetrachloride | 0.2254<br>0.2919 | 0.2343 | 0.2492 | 0.2640 | 0.2732 | Ave | | 0.2563 | | | | 9.7 | | 15.0 | | | |
| 1,2-Dichloroethane | 0.2627<br>0.2909 | 0.2728 | 0.2692 | 0.2756 | 0.2775 | Ave | | 0.2748 | | | | 3.5 | | 15.0 | | | |
| Benzene | 0.8227<br>0.9779 | 0.8539 | 0.8838 | 0.8982 | 0.9135 | Ave | | 0.8916 | | | | 6.0 | | 15.0 | | | |
| Trichloroethene | 0.2327<br>0.2582 | 0.2331 | 0.2378 | 0.2427 | 0.2428 | Ave | | 0.2412 | | | | 3.9 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 49387

SDG No.:

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/29/2012 09:19 Calibration End Date: 06/29/2012 11:06 Calibration ID: 9788

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Methylcyclohexane | 0.3257<br>0.4139 | 0.3056 | 0.3422 | 0.3769 | 0.3799 | Ave | | 0.3574 | | | | 11.0 | | 15.0 | | | |
| 1,2-Dichloropropane | 0.1827<br>0.2229 | 0.1907 | 0.1972 | 0.2035 | 0.2099 | Ave | | 0.2012 | | | | 7.1 | | 15.0 | | | |
| Dibromomethane | 0.1089<br>0.1263 | 0.1147 | 0.1149 | 0.1186 | 0.1210 | Ave | | 0.1174 | | | | 5.1 | | 15.0 | | | |
| ~~1,4-Dioxane~~ | 0.0009<br>0.0008 | 0.0012 | 0.0012 | 0.0013 | 0.0011 | Qua | -0.031 | ~~0.0015~~ | 0 | | | | | | 1.0000 | | 0.9900 |
| Bromodichloromethane | 0.2182<br>0.2820 | 0.2284 | 0.2417 | 0.2525 | 0.2579 | Ave | | 0.2468 | | | | 9.2 | | 15.0 | | | |
| 2-Chloroethyl vinyl ether | 0.0858<br>0.1279 | 0.0963 | 0.1096 | 0.1193 | 0.1233 | Ave | | 0.1104 | | | | 15.0 | | 15.0 | | | |
| cis-1,3-Dichloropropene | 0.2544<br>0.3565 | 0.2666 | 0.2952 | 0.3099 | 0.3258 | Ave | | 0.3014 | | | | 13.0 | | 15.0 | | | |
| 4-Methyl-2-pentanone | 0.1269<br>0.1547 | 0.1389 | 0.1449 | 0.1537 | 0.1549 | Ave | | 0.1457 | | | | 7.7 | | 15.0 | | | |
| Toluene | 1.1955<br>1.4453 | 1.2830 | 1.3193 | 1.3738 | 1.3876 | Ave | | 1.3341 | | | | 6.6 | | 15.0 | | | |
| trans-1,3-Dichloropropene | 0.3048<br>0.4278 | 0.3184 | 0.3545 | 0.3847 | 0.4019 | Ave | | 0.3654 | | | | 13.0 | | 15.0 | | | |
| Ethyl methacrylate | 0.2605<br>0.3798 | 0.2813 | 0.3114 | 0.3466 | 0.3613 | Ave | | 0.3235 | | | | 15.0 | | 15.0 | | | |
| 1,1,2-Trichloroethane | 0.2285<br>0.2546 | 0.2319 | 0.2431 | 0.2513 | 0.2523 | Ave | | 0.2436 | | | | 4.6 | | 15.0 | | | |
| 1,3-Dichloropropane | 0.4178<br>0.4724 | 0.4278 | 0.4459 | 0.4632 | 0.4639 | Ave | | 0.4485 | | | | 4.9 | | 15.0 | | | |
| Tetrachloroethene | 0.2759<br>0.2947 | 0.2692 | 0.2762 | 0.2882 | 0.2890 | Ave | | 0.2822 | | | | 3.5 | | 15.0 | | | |
| 2-Hexanone | 0.1121<br>0.1391 | 0.1204 | 0.1258 | 0.1397 | 0.1398 | Ave | | 0.1295 | | | | 9.1 | | 15.0 | | | |
| Dibromochloromethane | 0.1969<br>0.2894 | 0.2262 | 0.2451 | 0.2608 | 0.2724 | Ave | | 0.2485 | | | | 13.0 | | 15.0 | | | |
| 1,2-Dibromoethane | 0.2194<br>0.2561 | 0.2317 | 0.2387 | 0.2476 | 0.2531 | Ave | | 0.2411 | | | | 5.8 | | 15.0 | | | |
| Chlorobenzene | 0.8188<br>0.9103 | 0.8528 | 0.8703 | 0.8799 | 0.8806 | Ave | | 0.8688 | | | 0.3000 | 3.5 | | 15.0 | | | |
| 1,1,1,2-Tetrachloroethane | 0.2467<br>0.3016 | 0.2590 | 0.2778 | 0.2853 | 0.2907 | Ave | | 0.2769 | | | | 7.4 | | 15.0 | | | |
| Ethylbenzene | 0.4056<br>0.4894 | 0.4220 | 0.4500 | 0.4699 | 0.4798 | Ave | | 0.4528 | | | | 7.3 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 49387

SDG No.:

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/29/2012 09:19 Calibration End Date: 06/29/2012 11:06 Calibration ID: 9788

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| m-Xylene & p-Xylene | 0.4877<br>0.6194 | 0.5341 | 0.5709 | 0.5951 | 0.5936 | Ave | | 0.5668 | | | | 8.5 | | 15.0 | | | |
| o-Xylene | 0.4823<br>0.5691 | 0.5095 | 0.5393 | 0.5551 | 0.5538 | Ave | | 0.5349 | | | | 6.1 | | 15.0 | | | |
| Styrene | 0.7289<br>0.9793 | 0.7914 | 0.8695 | 0.9208 | 0.9312 | Ave | | 0.8702 | | | | 11.0 | | 15.0 | | | |
| Bromoform | 0.1194<br>0.1650 | 0.1283 | 0.1410 | 0.1519 | 0.1547 | Ave | | 0.1434 | | | 0.1000 | 12.0 | | 15.0 | | | |
| Isopropylbenzene | 1.1340<br>1.4228 | 1.2305 | 1.3443 | 1.3820 | 1.3600 | Ave | | 1.3123 | | | | 8.3 | | 15.0 | | | |
| 1,1,2,2-Tetrachloroethane | 0.5529<br>0.5626 | 0.5697 | 0.5464 | 0.5777 | 0.5744 | Ave | | 0.5639 | | | 0.3000 | 2.2 | | 15.0 | | | |
| Bromobenzene | 0.6600<br>0.7530 | 0.6735 | 0.6808 | 0.7251 | 0.7306 | Ave | | 0.7038 | | | | 5.3 | | 15.0 | | | |
| 1,2,3-Trichloropropane | 0.1923<br>0.1937 | 0.1946 | 0.1861 | 0.1999 | 0.1968 | Ave | | 0.1939 | | | | 2.4 | | 15.0 | | | |
| trans-1,4-Dichloro-2-butene | 0.1051<br>0.1580 | 0.1201 | 0.1264 | 0.1399 | 0.1502 | Ave | | 0.1333 | | | | 15.0 | | 15.0 | | | |
| n-Propylbenzene | 0.6259<br>0.7932 | 0.6577 | 0.7144 | 0.7503 | 0.7668 | Ave | | 0.7180 | | | | 9.1 | | 15.0 | | | |
| 2-Chlorotoluene | 0.5824<br>0.6736 | 0.6170 | 0.6392 | 0.6502 | 0.6538 | Ave | | 0.6360 | | | | 5.1 | | 15.0 | | | |
| 1,3,5-Trimethylbenzene | 1.7132<br>2.2163 | 1.8883 | 2.0634 | 2.1516 | 2.1526 | Ave | | 2.0309 | | | | 9.5 | | 15.0 | | | |
| 4-Chlorotoluene | 0.6177<br>0.7161 | 0.6277 | 0.6666 | 0.7020 | 0.6912 | Ave | | 0.6702 | | | | 6.0 | | 15.0 | | | |
| tert-Butylbenzene | 1.7416<br>1.9474 | 1.6792 | 1.9900 | 1.9065 | 2.0793 | Ave | | 1.8907 | | | | 8.1 | | 15.0 | | | |
| 1,2,4-Trimethylbenzene | 1.7367<br>2.1693 | 1.8899 | 2.0546 | 2.1353 | 2.1296 | Ave | | 2.0192 | | | | 8.5 | | 15.0 | | | |
| sec-Butylbenzene | 1.9768<br>2.4455 | 2.1467 | 2.3084 | 2.4014 | 2.4009 | Ave | | 2.2800 | | | | 8.0 | | 15.0 | | | |
| 1,3-Dichlorobenzene | 1.1955<br>1.2503 | 1.2130 | 1.2211 | 1.2271 | 1.2375 | Ave | | 1.2241 | | | | 1.6 | | 15.0 | | | |
| p-Isopropyltoluene | 1.6347<br>2.0620 | 1.7750 | 1.9736 | 2.0397 | 2.0444 | Ave | | 1.9216 | | | | 9.2 | | 15.0 | | | |
| 1,4-Dichlorobenzene | 1.2780<br>1.2982 | 1.2746 | 1.2595 | 1.3001 | 1.2780 | Ave | | 1.2814 | | | | 1.2 | | 15.0 | | | |
| n-Butylbenzene | 1.2983<br>1.5749 | 1.3527 | 1.4847 | 1.5457 | 1.5746 | Ave | | 1.4718 | | | | 8.1 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 49387

SDG No.:

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/29/2012 09:19 Calibration End Date: 06/29/2012 11:06 Calibration ID: 9788

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 1,2-Dichlorobenzene | 1.0625<br>1.0823 | 1.1166 | 1.1363 | 1.1318 | 1.1130 | Ave | | 1.1071 | | | | 2.6 | | 15.0 | | | |
| 1,2-Dibromo-3-Chloropropane | 0.0656<br>0.0696 | 0.0777 | 0.0779 | 0.0864 | 0.0808 | Ave | | 0.0763 | | | | 9.9 | | 15.0 | | | |
| 1,3,5-Trichlorobenzene | 0.6748<br>0.6382 | 0.7060 | 0.7388 | 0.7150 | 0.6894 | Ave | | 0.6937 | | | | 5.0 | | 15.0 | | | |
| 1,2,4-Trichlorobenzene | 0.5786<br>0.5163 | 0.6069 | 0.6245 | 0.6111 | 0.5736 | Ave | | 0.5852 | | | | 6.7 | | 15.0 | | | |
| Hexachlorobutadiene | 0.2844<br>0.1865 | 0.2717 | 0.2648 | 0.2522 | 0.2206 | Ave | | 0.2467 | | | | 15.0 | | 15.0 | | | |
| Naphthalene | 1.1070<br>0.9869 | 1.2788 | 1.3351 | 1.3947 | 1.2569 | Ave | | 1.2266 | | | | 12.0 | | 15.0 | | | |
| 1,2,3-Trichlorobenzene | 0.5181<br>0.3557 | 0.5752 | 0.5628 | 0.5396 | 0.4516 | Qua | 0.0757 | 0.5610 | -0.005 | | | | | | 0.9990 | | 0.9900 |
| Dibromofluoromethane (Surr) | 0.1734<br>0.2067 | 0.1830 | 0.1957 | 0.1990 | 0.1996 | Ave | | 0.1929 | | | | 6.4 | | 15.0 | | | |
| 1,2-Dichloroethane-d4 (Surr) | 0.2082<br>0.2482 | 0.2333 | 0.2300 | 0.2372 | 0.2403 | Ave | | 0.2329 | | | | 5.8 | | 15.0 | | | |
| Toluene-d8 (Surr) | 0.9400<br>1.1991 | 1.0675 | 1.1059 | 1.1558 | 1.1910 | Ave | | 1.1099 | | | | 8.8 | | 15.0 | | | |
| 4-Bromofluorobenzene (Surr) | 0.3321<br>0.3816 | 0.3683 | 0.3778 | 0.3839 | 0.3769 | Ave | | 0.3701 | | | | 5.2 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 49387

SDG No.:

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/29/2012 11:27 Calibration End Date: 06/29/2012 13:15 Calibration ID: 9790

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STDA9 240-49387/13 | UXX7464.D |
| Level 2 | STDA9 240-49387/12 | UXX7463.D |
| Level 3 | STDA9 240-49387/11 | UXX7462.D |
| Level 4 | STDA9 240-49387/10 | UXX7461.D |
| Level 5 | STDA9 240-49387/9 | UXX7460.D |
| Level 6 | STDA9 240-49387/8 | UXX7459.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Dichlorofluoromethane | 0.3466<br>0.3284 | 0.3045 | 0.3419 | 0.3002 | 0.3538 | Ave | | 0.3292 | | | | 6.8 | | 15.0 | | | |
| Ethyl ether | 0.1485<br>0.1669 | 0.1579 | 0.1577 | 0.1622 | 0.1655 | Ave | | 0.1598 | | | | 4.2 | | 15.0 | | | |
| 3-Chloro-1-propene | 0.0962<br>0.1231 | 0.1058 | 0.1080 | 0.1101 | 0.1166 | Ave | | 0.1100 | | | | 8.4 | | 15.0 | | | |
| Diisopropyl ether | 0.1714<br>0.2161 | 0.1821 | 0.1892 | 0.1944 | 0.2076 | Ave | | 0.1935 | | | | 8.5 | | 15.0 | | | |
| 2-Chloro-1,3-butadiene | 0.2684<br>0.3302 | 0.2967 | 0.2954 | 0.3010 | 0.3188 | Ave | | 0.3017 | | | | 7.1 | | 15.0 | | | |
| Ethyl-t-butyl ether (ETBE) | 0.5128<br>0.6231 | 0.5476 | 0.5532 | 0.5689 | 0.6041 | Ave | | 0.5683 | | | | 7.1 | | 15.0 | | | |
| ~~Propionitrile~~ | 0.0185<br>0.0221 | 0.0196 | 0.0218 | 0.0231 | 0.0242 | Ave | | ~~0.0216~~ | | | | 10.0 | | 15.0 | | | |
| Ethyl acetate | 0.1391<br>0.1512 | 0.1331 | 0.1418 | 0.1453 | 0.1517 | Ave | | 0.1437 | | | | 5.0 | | 15.0 | | | |
| Methacrylonitrile | 0.0927<br>0.1008 | 0.0980 | 0.0992 | 0.0945 | 0.1030 | Ave | | 0.0980 | | | | 3.9 | | 15.0 | | | |
| ~~Isobutyl alcohol~~ | 0.0058<br>0.0062 | 0.0067 | 0.0067 | 0.0070 | 0.0072 | Ave | | ~~0.0066~~ | | | | 7.9 | | 15.0 | | | |
| Tert-amyl-methyl ether (TAME) | 0.4532<br>0.5890 | 0.4893 | 0.5109 | 0.5279 | 0.5744 | Ave | | 0.5241 | | | | 9.8 | | 15.0 | | | |
| ~~n-Heptane~~ | 0.0420<br>0.0475 | 0.0462 | 0.0438 | 0.0454 | 0.0457 | Ave | | ~~0.0451~~ | | | | 4.3 | | 15.0 | | | |
| ~~n-Butanol~~ | 0.0037<br>0.0050 | 0.0050 | 0.0055 | 0.0057 | 0.0064 | Qua | -0.136 | ~~0.0077~~ | 0 | | | | | | 0.9970 | | 0.9900 |
| Methyl methacrylate | 0.1087<br>0.1446 | 0.1222 | 0.1302 | 0.1310 | 0.1429 | Ave | | 0.1299 | | | | 10.0 | | 15.0 | | | |
| ~~2-Nitropropane~~ | 0.0224<br>0.0351 | 0.0245 | 0.0269 | 0.0287 | 0.0342 | Lin1 | -0.038 | ~~0.0345~~ | | | | | | | 0.9950 | | 0.9900 |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 49387

SDG No.:

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/29/2012 11:27 Calibration End Date: 06/29/2012 13:15 Calibration ID: 9790

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| ~~Cyclohexanone~~ | 0.0254<br>0.0253 | 0.0359 | 0.0297 | 0.0316 | 0.0400 | Ave | | ~~0.0313~~ | | | | 19.0 | * | 15.0 | | | |
| 1,2,3-Trimethylbenzene | 1.6277<br>2.1722 | 1.7671 | 1.8576 | 2.0150 | 2.1222 | Ave | | 1.9270 | | | | 11.0 | | 15.0 | | | |
| 2-Methylnaphthalene | 0.4757<br>+++++ | 0.4892 | 0.5242 | 0.5059 | 0.5320 | Ave | | 0.5054 | | | | 4.6 | | 15.0 | | | |
| n-Butyl acetate | 0.1024<br>0.1609 | 0.1160 | 0.1336 | 0.1420 | 0.1546 | Lin1 | -0.156 | 0.1592 | | | | | | | 0.9980 | | 0.9900 |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 49387

SDG No.:

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/29/2012 09:19 Calibration End Date: 06/29/2012 11:06 Calibration ID: 9788

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD8260 240-49387/7 | UXX7458.D |
| Level 2 | STD8260 240-49387/6 | UXX7457.D |
| Level 3 | STD8260 240-49387/5 | UXX7456.D |
| Level 4 | STD8260 240-49387/4 | UXX7455.D |
| Level 5 | STD8260 240-49387/3 | UXX7454.D |
| Level 6 | STD8260 240-49387/2 | UXX7453.D |

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Dichlorodifluoromethane | FB | Ave | 25912<br>1183836 | 55123 | 129755 | 286885 | 563320 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Chloromethane | FB | Ave | 31776<br>1362477 | 68683 | 167638 | 352072 | 668977 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Vinyl chloride | FB | Ave | 30398<br>1335390 | 65544 | 159256 | 340925 | 640524 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Bromomethane | FB | Ave | 17320<br>785784 | 37333 | 88701 | 191176 | 348009 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Chloroethane | FB | Ave | 19640<br>905629 | 43568 | 105393 | 221739 | 424132 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Trichlorofluoromethane | FB | Ave | 31866<br>1571032 | 71026 | 164771 | 368608 | 719215 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Acrolein | FB | Ave | 42162<br>1815359 | 86994 | 236704 | 492770 | 995155 | 10.0<br>400 | 20.0 | 50.0 | 100 | 200 |
| 1,1-Dichloroethene | FB | Ave | 28223<br>1208844 | 56101 | 150185 | 303223 | 605024 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Acetone | FB | Lin1 | 26549<br>528967 | 42007 | 85947 | 163150 | 301273 | 2.00<br>80.0 | 4.00 | 10.0 | 20.0 | 40.0 |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | FB | Ave | 24832<br>1071783 | 46290 | 116254 | 267511 | 487126 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Iodomethane | FB | Ave | 46622<br>2081738 | 99443 | 255268 | 524608 | 1042992 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Carbon disulfide | FB | Ave | 91124<br>4206373 | 185944 | 491831 | 1034050 | 2063946 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Acetonitrile | FB | Ave | 24695<br>681101 | 45634 | 108253 | 227665 | 432068 | 10.0<br>400 | 20.0 | 50.0 | 100 | 200 |
| Methyl acetate | FB | Ave | 37555<br>1499535 | 77728 | 189604 | 387486 | 772006 | 2.00<br>80.0 | 4.00 | 10.0 | 20.0 | 40.0 |
| Methylene Chloride | FB | Lin1 | 63622<br>1457126 | 101013 | 205231 | 378616 | 732465 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| tert-Butyl alcohol | FB | Ave | 37594<br>1141323 | 78233 | 187209 | 385546 | 759678 | 20.0<br>800 | 40.0 | 100 | 200 | 400 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 49387

SDG No.:

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/29/2012 09:19 Calibration End Date: 06/29/2012 11:06 Calibration ID: 9788

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Acrylonitrile | FB | Ave | 19696<br>806738 | 39589 | 101460 | 216321 | 432560 | 2.00<br>80.0 | 4.00 | 10.0 | 20.0 | 40.0 |
| Methyl tert-butyl ether | FB | Ave | 80951<br>3604908 | 167258 | 443259 | 919412 | 1872767 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| trans-1,2-Dichloroethene | FB | Ave | 30848<br>1390019 | 65527 | 171721 | 347361 | 699514 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Hexane | FB | Ave | 7013<br>332836 | 12546 | 37348 | 84139 | 164496 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,1-Dichloroethane | FB | Ave | 49236<br>2219116 | 105697 | 276582 | 556934 | 1141458 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Vinyl acetate | FB | Lin1 | 4484<br>269391 | 9895 | 29895 | 65113 | 138319 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 2-Butanone | FB | Ave | 21184<br>809776 | 42268 | 104655 | 219541 | 444851 | 2.00<br>80.0 | 4.00 | 10.0 | 20.0 | 40.0 |
| cis-1,2-Dichloroethene | FB | Ave | 34680<br>1453002 | 67143 | 178518 | 363559 | 741585 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 2,2-Dichloropropane | FB | Ave | 31138<br>1416836 | 63936 | 177750 | 361492 | 726966 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Bromochloromethane | FB | Ave | 15636<br>700785 | 32951 | 86968 | 175922 | 356661 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Tetrahydrofuran | FB | Ave | 7500<br>274759 | 13952 | 35450 | 73934 | 145198 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Chloroform | FB | Ave | 53562<br>2256209 | 105586 | 282008 | 566620 | 1141553 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,1,1-Trichloroethane | FB | Ave | 40424<br>1843923 | 84386 | 221360 | 458737 | 918702 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Cyclohexane | FB | Ave | 47864<br>2315620 | 91686 | 256683 | 566296 | 1124255 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,1-Dichloropropene | FB | Ave | 39747<br>1804720 | 79888 | 212211 | 447737 | 906867 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Carbon tetrachloride | FB | Ave | 33118<br>1636446 | 68720 | 186381 | 393339 | 817813 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,2-Dichloroethane | FB | Ave | 38596<br>1630793 | 80002 | 201357 | 410573 | 830821 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Benzene | FB | Ave | 120869<br>5481335 | 250412 | 661028 | 1338057 | 2734867 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Trichloroethene | FB | Ave | 34187<br>1447083 | 68348 | 177837 | 361502 | 727076 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Methylcyclohexane | FB | Ave | 47848<br>2320118 | 89612 | 255959 | 561458 | 1137534 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,2-Dichloropropane | FB | Ave | 26841<br>1249390 | 55935 | 147537 | 303127 | 628459 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 49387

SDG No.:

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/29/2012 09:19 Calibration End Date: 06/29/2012 11:06 Calibration ID: 9788

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Dibromomethane | FB | Ave | 15993<br>708125 | 33633 | 85978 | 176652 | 362362 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,4-Dioxane | FB | Qua | 6345<br>226980 | 18268 | 44802 | 93988 | 167996 | 50.0<br>2000 | 100 | 250 | 500 | 1000 |
| Bromodichloromethane | FB | Ave | 32054<br>1580658 | 66971 | 180818 | 376136 | 772032 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 2-Chloroethyl vinyl ether | FB | Ave | 25203<br>1433330 | 56510 | 163998 | 355478 | 738129 | 2.00<br>80.0 | 4.00 | 10.0 | 20.0 | 40.0 |
| cis-1,3-Dichloropropene | FB | Ave | 37374<br>1998565 | 78182 | 220815 | 461609 | 975306 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 4-Methyl-2-pentanone | FB | Ave | 37294<br>1734720 | 81475 | 216718 | 457792 | 927421 | 2.00<br>80.0 | 4.00 | 10.0 | 20.0 | 40.0 |
| Toluene | CBZ | Ave | 124566<br>5908101 | 267657 | 707154 | 1447917 | 2945672 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| trans-1,3-Dichloropropene | CBZ | Ave | 31753<br>1748719 | 66433 | 190013 | 405501 | 853194 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Ethyl methacrylate | CBZ | Ave | 27141<br>1552504 | 58679 | 166902 | 365331 | 767008 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,1,2-Trichloroethane | CBZ | Ave | 23806<br>1040685 | 48368 | 130332 | 264842 | 535608 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,3-Dichloropropane | CBZ | Ave | 43534<br>1931181 | 89236 | 239027 | 488224 | 984822 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Tetrachloroethene | CBZ | Ave | 28752<br>1204698 | 56155 | 148031 | 303721 | 613617 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 2-Hexanone | CBZ | Ave | 23362<br>1137589 | 50242 | 134855 | 294478 | 593451 | 2.00<br>80.0 | 4.00 | 10.0 | 20.0 | 40.0 |
| Dibromochloromethane | CBZ | Ave | 20515<br>1182882 | 47195 | 131354 | 274867 | 578338 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,2-Dibromoethane | CBZ | Ave | 22855<br>1047073 | 48329 | 127948 | 260988 | 537256 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Chlorobenzene | CBZ | Ave | 85310<br>3721304 | 177905 | 466481 | 927347 | 1869434 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,1,1,2-Tetrachloroethane | CBZ | Ave | 25703<br>1233014 | 54040 | 148885 | 300639 | 617224 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Ethylbenzene | CBZ | Ave | 42264<br>2000457 | 88037 | 241220 | 495214 | 1018488 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| m-Xylene & p-Xylene | CBZ | Ave | 101620<br>5064193 | 222846 | 612045 | 1254396 | 2520224 | 2.00<br>80.0 | 4.00 | 10.0 | 20.0 | 40.0 |
| o-Xylene | CBZ | Ave | 50257<br>2326513 | 106281 | 289074 | 585024 | 1175695 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Styrene | CBZ | Ave | 75942<br>4003209 | 165094 | 466080 | 970515 | 1976855 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 49387

SDG No.:

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/29/2012 09:19 Calibration End Date: 06/29/2012 11:06 Calibration ID: 9788

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Bromoform | CBZ | Ave | 12445<br>674592 | 26763 | 75577 | 160084 | 328462 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Isopropylbenzene | CBZ | Ave | 118156<br>5816176 | 256706 | 720578 | 1456570 | 2887150 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,1,2,2-Tetrachloroethane | DCB | Ave | 28455<br>1092127 | 60402 | 151127 | 302916 | 582546 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Bromobenzene | DCB | Ave | 33965<br>1461635 | 71408 | 188306 | 380244 | 740976 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,2,3-Trichloropropane | DCB | Ave | 9899<br>375896 | 20628 | 51474 | 104800 | 199638 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| trans-1,4-Dichloro-2-butene | DCB | Ave | 5410<br>306704 | 12732 | 34962 | 73379 | 152299 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| n-Propylbenzene | DCB | Ave | 32211<br>1539634 | 69738 | 197583 | 393422 | 777670 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 2-Chlorotoluene | DCB | Ave | 29971<br>1307508 | 65417 | 176794 | 340956 | 663092 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,3,5-Trimethylbenzene | DCB | Ave | 88171<br>4302132 | 200209 | 570713 | 1128262 | 2183175 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 4-Chlorotoluene | DCB | Ave | 31792<br>1389936 | 66558 | 184374 | 368124 | 701033 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| tert-Butylbenzene | DCB | Ave | 89634<br>3780128 | 178043 | 550411 | 999730 | 2108826 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,2,4-Trimethylbenzene | DCB | Ave | 89380<br>4210841 | 200386 | 568276 | 1119714 | 2159891 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| sec-Butylbenzene | DCB | Ave | 101739<br>4746976 | 227613 | 638492 | 1259240 | 2435052 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,3-Dichlorobenzene | DCB | Ave | 61529<br>2426868 | 128611 | 337736 | 643450 | 1255112 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| p-Isopropyltoluene | DCB | Ave | 84133<br>4002493 | 188203 | 545867 | 1069584 | 2073458 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,4-Dichlorobenzene | DCB | Ave | 65775<br>2519916 | 135141 | 348357 | 681732 | 1296172 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| n-Butylbenzene | DCB | Ave | 66819<br>3057030 | 143426 | 410648 | 810518 | 1597024 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,2-Dichlorobenzene | DCB | Ave | 54680<br>2100801 | 118395 | 314293 | 593514 | 1128783 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,2-Dibromo-3-Chloropropane | DCB | Ave | 3376<br>135103 | 8234 | 21535 | 45289 | 81992 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,3,5-Trichlorobenzene | DCB | Ave | 34728<br>1238735 | 74852 | 204336 | 374908 | 699152 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,2,4-Trichlorobenzene | DCB | Ave | 29780<br>1002216 | 64346 | 172718 | 320436 | 581707 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 49387

SDG No.:

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/29/2012 09:19 Calibration End Date: 06/29/2012 11:06 Calibration ID: 9788

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Hexachlorobutadiene | DCB | Ave | 14636<br>362110 | 28812 | 73241 | 132224 | 223760 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Naphthalene | DCB | Ave | 56973<br>1915622 | 135591 | 369289 | 731376 | 1274780 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,2,3-Trichlorobenzene | DCB | Qua | 26665<br>690507 | 60991 | 155661 | 282971 | 458047 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Dibromofluoromethane (Surr) | FB | Ave | 25474<br>1158518 | 53658 | 146374 | 296464 | 597593 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,2-Dichloroethane-d4 (Surr) | FB | Ave | 30595<br>1391272 | 68416 | 172058 | 353306 | 719594 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Toluene-d8 (Surr) | CBZ | Ave | 97947<br>4901813 | 222688 | 592765 | 1218131 | 2528330 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 4-Bromofluorobenzene (Surr) | CBZ | Ave | 34603<br>1559861 | 76841 | 202496 | 404625 | 800201 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Qua = Quadratic ISTD

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 49387

SDG No.:

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/29/2012 11:27 Calibration End Date: 06/29/2012 13:15 Calibration ID: 9790

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STDA9 240-49387/13 | UXX7464.D |
| Level 2 | STDA9 240-49387/12 | UXX7463.D |
| Level 3 | STDA9 240-49387/11 | UXX7462.D |
| Level 4 | STDA9 240-49387/10 | UXX7461.D |
| Level 5 | STDA9 240-49387/9 | UXX7460.D |
| Level 6 | STDA9 240-49387/8 | UXX7459.D |

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Dichlorofluoromethane | FB | Ave | 49941<br>1979679 | 87701 | 254301 | 446343 | 1040148 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Ethyl ether | FB | Ave | 21401<br>1005948 | 45473 | 117252 | 241105 | 486511 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 3-Chloro-1-propene | FB | Ave | 13857<br>741711 | 30477 | 80338 | 163714 | 342804 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Diisopropyl ether | FB | Ave | 123525<br>6514036 | 262303 | 703412 | 1445014 | 3052013 | 5.00<br>200 | 10.0 | 25.0 | 50.0 | 100 |
| 2-Chloro-1,3-butadiene | FB | Ave | 38679<br>1990519 | 85463 | 219652 | 447468 | 937476 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Ethyl-t-butyl ether (ETBE) | FB | Ave | 73895<br>3755974 | 157729 | 411379 | 845875 | 1776347 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Propionitrile | FB | Ave | 5334<br>266273 | 11286 | 32450 | 68805 | 142514 | 2.00<br>80.0 | 4.00 | 10.0 | 20.0 | 40.0 |
| Ethyl acetate | FB | Ave | 40102<br>1823068 | 76653 | 210910 | 431922 | 892056 | 2.00<br>80.0 | 4.00 | 10.0 | 20.0 | 40.0 |
| Methacrylonitrile | FB | Ave | 13355<br>607420 | 28229 | 73750 | 140496 | 302837 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Isobutyl alcohol | CBZ | Ave | 11941<br>508890 | 26284 | 70473 | 140035 | 303403 | 20.0<br>800 | 40.0 | 100 | 200 | 400 |
| Tert-amyl-methyl ether (TAME) | FB | Ave | 65309<br>3550156 | 140926 | 379974 | 784848 | 1689048 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| n-Heptane | FB | Ave | 6048<br>286344 | 13313 | 32600 | 67554 | 134252 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| n-Butanol | CBZ | Qua | 7657<br>417205 | 19639 | 57091 | 114493 | 268140 | 20.0<br>800 | 40.0 | 100 | 200 | 400 |
| Methyl methacrylate | FB | Ave | 15665<br>871328 | 35188 | 96792 | 194832 | 420265 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 2-Nitropropane | FB | Lin1 | 6464<br>422652 | 14118 | 40016 | 85335 | 200991 | 2.00<br>80.0 | 4.00 | 10.0 | 20.0 | 40.0 |
| Cyclohexanone | DCB | Ave | 12548<br>492884 | 32458 | 74127 | 142793 | 397291 | 10.0<br>400 | 20.0 | 50.0 | 100 | 200 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 49387

SDG No.:

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/29/2012 11:27 Calibration End Date: 06/29/2012 13:15 Calibration ID: 9790

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| 1,2,3-Trimethylbenzene | DCB | Ave | 80442<br>4231206 | 159601 | 463864 | 911834 | 2110393 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 2-Methylnaphthalene | DCB | Ave | 47020<br>+++++ | 88363 | 261810 | 457886 | 1058036 | 2.00<br>+++++ | 4.00 | 10.0 | 20.0 | 40.0 |
| n-Butyl acetate | CBZ | Lin1 | 20941<br>1329797 | 45283 | 139744 | 283262 | 648686 | 2.00<br>80.0 | 4.00 | 10.0 | 20.0 | 40.0 |

Curve Type Legend:

| |
|---|
| Ave = Average ISTD |
| Lin1 = Linear 1/conc ISTD |
| Qua = Quadratic ISTD |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Lab Sample ID: ICV 240-49387/14  Calibration Date: 06/29/2012 13:37

Instrument ID: A3UX10  Calib Start Date: 06/29/2012 09:19

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 06/29/2012 11:06

Lab File ID: UXX7465.D  Conc. Units: ug/L  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | Ave | 0.1883 | 0.1748 | | 9.28 | 10.0 | -7.2 | 50.0 |
| Chloromethane | Ave | 0.2296 | 0.2342 | 0.1000 | 10.2 | 10.0 | 2.0 | 50.0 |
| Vinyl chloride | Ave | 0.2207 | 0.2152 | | 9.75 | 10.0 | -2.5 | 20.0 |
| Bromomethane | Ave | 0.1248 | 0.1146 | | 9.18 | 10.0 | -8.2 | 50.0 |
| Chloroethane | Ave | 0.1459 | 0.1383 | | 9.48 | 10.0 | -5.2 | 50.0 |
| Trichlorofluoromethane | Ave | 0.2412 | 0.2496 | | 10.3 | 10.0 | 3.5 | 50.0 |
| 1,1-Dichloroethene | Ave | 0.2009 | 0.2130 | | 10.6 | 10.0 | 6.0 | 20.0 |
| Acetone | Lin1 | | 0.0494 | | 18.9 | 20.0 | -5.5 | 50.0 |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | Ave | 0.1693 | 0.1751 | | 10.3 | 10.0 | 3.4 | 50.0 |
| Iodomethane | Ave | 0.3449 | 0.3538 | | 10.3 | 10.0 | 2.6 | 50.0 |
| Carbon disulfide | Ave | 0.6743 | 0.6665 | | 9.88 | 10.0 | -1.2 | 50.0 |
| Methyl acetate | Ave | 0.1300 | 0.1486 | | 11.4 | 10.0 | 14.4 | 50.0 |
| Methylene Chloride | Lin1 | | 0.2615 | | 9.87 | 10.0 | -1.3 | 50.0 |
| tert-Butyl alcohol | Ave | 0.0124 | 0.0121 | | 194 | 200 | -2.9 | 50.0 |
| Methyl tert-butyl ether | Ave | 0.6000 | 0.6172 | | 10.3 | 10.0 | 2.9 | 50.0 |
| trans-1,2-Dichloroethene | Ave | 0.2296 | 0.2389 | | 10.4 | 10.0 | 4.0 | 50.0 |
| Hexane | Ave | 0.0519 | 0.0565 | | 10.9 | 10.0 | 8.8 | 20.0 |
| 1,1-Dichloroethane | Ave | 0.3694 | 0.3966 | 0.1000 | 10.7 | 10.0 | 7.4 | 50.0 |
| Vinyl acetate | Lin1 | | 0.0389 | | 8.64 | 10.0 | -13.6 | 50.0 |
| 2-Butanone | Ave | 0.0724 | 0.0701 | | 19.4 | 20.0 | -3.1 | 50.0 |
| cis-1,2-Dichloroethene | Ave | 0.2424 | 0.2499 | | 10.3 | 10.0 | 3.1 | 50.0 |
| 2,2-Dichloropropane | Ave | 0.2343 | 0.2433 | | 10.4 | 10.0 | 3.8 | 50.0 |
| Bromochloromethane | Ave | 0.1162 | 0.1180 | | 10.2 | 10.0 | 1.5 | 50.0 |
| Tetrahydrofuran | Ave | 0.0489 | 0.0483 | | 9.89 | 10.0 | -1.1 | 50.0 |
| Chloroform | Ave | 0.3776 | 0.3783 | | 10.0 | 10.0 | 0.2 | 20.0 |
| 1,1,1-Trichloroethane | Ave | 0.3004 | 0.3050 | | 10.2 | 10.0 | 1.5 | 50.0 |
| Cyclohexane | Ave | 0.3584 | 0.3534 | | 9.86 | 10.0 | -1.4 | 50.0 |
| 1,1-Dichloropropene | Ave | 0.2920 | 0.3026 | | 10.4 | 10.0 | 3.6 | 50.0 |
| Carbon tetrachloride | Ave | 0.2563 | 0.2680 | | 10.5 | 10.0 | 4.6 | 50.0 |
| 1,2-Dichloroethane | Ave | 0.2748 | 0.2856 | | 10.4 | 10.0 | 3.9 | 50.0 |
| Benzene | Ave | 0.8916 | 0.9311 | | 10.4 | 10.0 | 4.4 | 50.0 |
| Trichloroethene | Ave | 0.2412 | 0.2455 | | 10.2 | 10.0 | 1.8 | 50.0 |
| Methylcyclohexane | Ave | 0.3574 | 0.3577 | | 10.0 | 10.0 | 0.1 | 50.0 |
| 1,2-Dichloropropane | Ave | 0.2012 | 0.2125 | | 10.6 | 10.0 | 5.6 | 20.0 |
| Dibromomethane | Ave | 0.1174 | 0.1247 | | 10.6 | 10.0 | 6.2 | 50.0 |
| Bromodichloromethane | Ave | 0.2468 | 0.2614 | | 10.6 | 10.0 | 5.9 | 50.0 |
| 2-Chloroethyl vinyl ether | Ave | 0.1104 | 0.1101 | | 9.97 | 10.0 | -0.3 | 50.0 |
| cis-1,3-Dichloropropene | Ave | 0.3014 | 0.2988 | | 9.91 | 10.0 | -0.9 | 50.0 |
| 4-Methyl-2-pentanone | Ave | 0.1457 | 0.1501 | | 20.6 | 20.0 | 3.1 | 50.0 |
| Toluene | Ave | 1.334 | 1.387 | | 10.4 | 10.0 | 4.0 | 20.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Lab Sample ID: ICV 240-49387/14  Calibration Date: 06/29/2012 13:37

Instrument ID: A3UX10  Calib Start Date: 06/29/2012 09:19

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 06/29/2012 11:06

Lab File ID: UXX7465.D  Conc. Units: ug/L  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | Ave | 0.3654 | 0.3836 | | 10.5 | 10.0 | 5.0 | 50.0 |
| 1,1,2-Trichloroethane | Ave | 0.2436 | 0.2635 | | 10.8 | 10.0 | 8.1 | 50.0 |
| 1,3-Dichloropropane | Ave | 0.4485 | 0.4685 | | 10.4 | 10.0 | 4.5 | 50.0 |
| Tetrachloroethene | Ave | 0.2822 | 0.2912 | | 10.3 | 10.0 | 3.2 | 50.0 |
| 2-Hexanone | Ave | 0.1295 | 0.1350 | | 20.9 | 20.0 | 4.3 | 50.0 |
| Dibromochloromethane | Ave | 0.2485 | 0.2619 | | 10.5 | 10.0 | 5.4 | 50.0 |
| 1,2-Dibromoethane | Ave | 0.2411 | 0.2506 | | 10.4 | 10.0 | 4.0 | 50.0 |
| Chlorobenzene | Ave | 0.8688 | 0.8936 | 0.3000 | 10.3 | 10.0 | 2.9 | 50.0 |
| 1,1,1,2-Tetrachloroethane | Ave | 0.2769 | 0.2941 | | 10.6 | 10.0 | 6.2 | 50.0 |
| Ethylbenzene | Ave | 0.4528 | 0.4731 | | 10.4 | 10.0 | 4.5 | 20.0 |
| m-Xylene & p-Xylene | Ave | 0.5668 | 0.6022 | | 21.2 | 20.0 | 6.2 | 50.0 |
| o-Xylene | Ave | 0.5349 | 0.5662 | | 10.6 | 10.0 | 5.9 | 50.0 |
| Styrene | Ave | 0.8702 | 0.9365 | | 10.8 | 10.0 | 7.6 | 50.0 |
| Bromoform | Ave | 0.1434 | 0.1470 | 0.1000 | 10.3 | 10.0 | 2.5 | 50.0 |
| Isopropylbenzene | Ave | 1.312 | 1.383 | | 10.5 | 10.0 | 5.4 | 50.0 |
| 1,1,2,2-Tetrachloroethane | Ave | 0.5639 | 0.5441 | 0.3000 | 9.65 | 10.0 | -3.5 | 50.0 |
| Bromobenzene | Ave | 0.7038 | 0.7057 | | 10.0 | 10.0 | 0.3 | 50.0 |
| 1,2,3-Trichloropropane | Ave | 0.1939 | 0.1942 | | 10.0 | 10.0 | 0.1 | 50.0 |
| trans-1,4-Dichloro-2-butene | Ave | 0.1333 | 0.1342 | | 20.1 | 20.0 | 0.7 | 50.0 |
| n-Propylbenzene | Ave | 0.7180 | 0.7632 | | 10.6 | 10.0 | 6.3 | 50.0 |
| 2-Chlorotoluene | Ave | 0.6360 | 0.6416 | | 10.1 | 10.0 | 0.9 | 50.0 |
| 1,3,5-Trimethylbenzene | Ave | 2.031 | 2.091 | | 10.3 | 10.0 | 3.0 | 50.0 |
| 4-Chlorotoluene | Ave | 0.6702 | 0.6782 | | 10.1 | 10.0 | 1.2 | 50.0 |
| tert-Butylbenzene | Ave | 1.891 | 2.016 | | 10.7 | 10.0 | 6.6 | 50.0 |
| 1,2,4-Trimethylbenzene | Ave | 2.019 | 2.092 | | 10.4 | 10.0 | 3.6 | 50.0 |
| sec-Butylbenzene | Ave | 2.280 | 2.320 | | 10.2 | 10.0 | 1.8 | 50.0 |
| 1,3-Dichlorobenzene | Ave | 1.224 | 1.214 | | 9.92 | 10.0 | -0.8 | 50.0 |
| p-Isopropyltoluene | Ave | 1.922 | 2.074 | | 10.8 | 10.0 | 7.9 | 50.0 |
| 1,4-Dichlorobenzene | Ave | 1.281 | 1.248 | | 9.74 | 10.0 | -2.6 | 50.0 |
| n-Butylbenzene | Ave | 1.472 | 1.516 | | 10.3 | 10.0 | 3.0 | 50.0 |
| 1,2-Dichlorobenzene | Ave | 1.107 | 1.089 | | 9.84 | 10.0 | -1.6 | 50.0 |
| 1,2-Dibromo-3-Chloropropane | Ave | 0.0763 | 0.0707 | | 9.26 | 10.0 | -7.4 | 50.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.5852 | 0.4892 | | 8.36 | 10.0 | -16.4 | 50.0 |
| Hexachlorobutadiene | Ave | 0.2467 | 0.1951 | | 7.91 | 10.0 | -20.9 | 50.0 |
| Naphthalene | Ave | 1.227 | 0.9189 | | 7.49 | 10.0 | -25.1 | 50.0 |
| 1,2,3-Trichlorobenzene | Qua | | 0.3820 | | 7.15 | 10.0 | -28.5 | 50.0 |
| Dibromofluoromethane (Surr) | Ave | 0.1929 | 0.1888 | | 11.8 | 12.0 | -2.1 | 50.0 |
| 1,2-Dichloroethane-d4 (Surr) | Ave | 0.2329 | 0.2306 | | 11.9 | 12.0 | -1.0 | 50.0 |
| Toluene-d8 (Surr) | Ave | 1.110 | 1.133 | | 12.3 | 12.0 | 2.1 | 50.0 |
| 4-Bromofluorobenzene (Surr) | Ave | 0.3701 | 0.3759 | | 12.2 | 12.0 | 1.6 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Lab Sample ID: ICV 240-49387/14 Calibration Date: 06/29/2012 13:37

Instrument ID: A3UX10 Calib Start Date: 06/29/2012 11:27

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/29/2012 13:15

Lab File ID: UXX7465.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Ethyl ether | Ave | 0.1598 | 0.1748 | | 10.9 | 10.0 | 9.4 | 50.0 |
| Diisopropyl ether | Ave | 0.1935 | 0.2059 | | 10.6 | 10.0 | 6.4 | 50.0 |
| Isobutyl alcohol | Ave | 0.0066 | 0.0067 | | 505 | 500 | 1.1 | 50.0 |
| Cyclohexanone | Ave | 0.0313 | 0.0074 | | 46.9 | 200 | -76.5* | 50.0 |
| 1,2,3-Trimethylbenzene | Ave | 1.927 | 2.017 | | 10.5 | 10.0 | 4.7 | 50.0 |

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Lab File ID: BFB4840.D  BFB Injection Date: 07/13/2012

Instrument ID: A3UX10  BFB Injection Time: 14:08

Analysis Batch No.: 50786

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 50 | 15.0 - 40.0 % of mass 95 | 15.1 | |
| 75 | 30.0 - 60.0 % of mass 95 | 44.6 | |
| 95 | Base Peak, 100% relative abundance | 100.0 | |
| 96 | 5.0 - 9.0 % of mass 95 | 6.4 | |
| 173 | Less than 2.0 % of mass 174 | 0.0 | (0.0)1 |
| 174 | 50.0 - 120.00 % of mass 95 | 90.8 | |
| 175 | 5.0 - 9.0 % of mass 174 | 6.6 | (7.3)1 |
| 176 | 95.0 - 101.0 % of mass 174 | 87.4 | (96.2)1 |
| 177 | 5.0 - 9.0 % of mass 176 | 5.3 | (6.1)2 |

1-Value is % mass 174  2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | CCVIS 240-50786/2 | UXX7799.D | 07/13/2012 | 14:45 |
| | CCV 240-50786/3 | UXX7800.D | 07/13/2012 | 15:07 |
| | LCS 240-50786/4 | UXX7801.D | 07/13/2012 | 15:28 |
| | MB 240-50786/5 | UXX7802.D | 07/13/2012 | 15:49 |
| | 240-13086-E-8 MS | UXX7811.D | 07/13/2012 | 19:14 |
| | 240-13086-D-8 MSD | UXX7812.D | 07/13/2012 | 19:35 |
| TB-070912 | 240-13043-1 | UXX7821.D | 07/13/2012 | 22:46 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Lab Sample ID: CCVIS 240-50786/2  Calibration Date: 07/13/2012 14:45

Instrument ID: A3UX10  Calib Start Date: 06/29/2012 09:19

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 06/29/2012 11:06

Lab File ID: UXX7799.D  Conc. Units: ug/L  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | Ave | 0.1883 | 0.1909 | | 10.1 | 10.0 | 1.4 | 50.0 |
| Chloromethane | Ave | 0.2296 | 0.2272 | 0.1000 | 9.90 | 10.0 | -1.0 | 50.0 |
| Vinyl chloride | Ave | 0.2207 | 0.2268 | | 10.3 | 10.0 | 2.8 | 20.0 |
| Bromomethane | Ave | 0.1248 | 0.1321 | | 10.6 | 10.0 | 5.9 | 50.0 |
| Chloroethane | Ave | 0.1459 | 0.1514 | | 10.4 | 10.0 | 3.8 | 50.0 |
| Trichlorofluoromethane | Ave | 0.2412 | 0.2637 | | 10.9 | 10.0 | 9.3 | 50.0 |
| ~~Acrolein~~ | Ave | 0.0315 | ~~0.0152~~ | | 48.2 | 100 | ~~-51.8~~ | 50.0 |
| 1,1-Dichloroethene | Ave | 0.2009 | 0.1860 | | 9.26 | 10.0 | -7.4 | 20.0 |
| Acetone | Lin1 | | 0.0427 | | 16.1 | 20.0 | -19.5 | 50.0 |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | Ave | 0.1693 | 0.1593 | | 9.41 | 10.0 | -5.9 | 50.0 |
| Iodomethane | Ave | 0.3449 | 0.3299 | | 9.56 | 10.0 | -4.4 | 50.0 |
| Carbon disulfide | Ave | 0.6743 | 0.6458 | | 9.58 | 10.0 | -4.2 | 50.0 |
| ~~Acetonitrile~~ | Ave | 0.0148 | ~~0.0112~~ | | 75.9 | 100 | ~~-24.1~~ | 50.0 |
| Methyl acetate | Ave | 0.1300 | 0.1403 | | 21.6 | 20.0 | 8.0 | 50.0 |
| Methylene Chloride | Lin1 | | 0.2360 | | 8.84 | 10.0 | -11.6 | 50.0 |
| tert-Butyl alcohol | Ave | 0.0124 | 0.0084 | | 136 | 200 | -32.1 | 50.0 |
| Acrylonitrile | Ave | 0.0699 | 0.0697 | | 19.9 | 20.0 | -0.3 | 50.0 |
| Methyl tert-butyl ether | Ave | 0.6000 | 0.5669 | | 9.45 | 10.0 | -5.5 | 50.0 |
| trans-1,2-Dichloroethene | Ave | 0.2296 | 0.2267 | | 9.87 | 10.0 | -1.3 | 50.0 |
| Hexane | Ave | 0.0519 | 0.0509 | | 9.82 | 10.0 | -1.8 | 20.0 |
| 1,1-Dichloroethane | Ave | 0.3694 | 0.3592 | 0.1000 | 9.72 | 10.0 | -2.8 | 50.0 |
| Vinyl acetate | Lin1 | | 0.0298 | | 6.75 | 10.0 | -32.5 | 50.0 |
| 2-Butanone | Ave | 0.0724 | 0.0703 | | 19.4 | 20.0 | -2.8 | 50.0 |
| cis-1,2-Dichloroethene | Ave | 0.2424 | 0.2316 | | 9.55 | 10.0 | -4.5 | 50.0 |
| 2,2-Dichloropropane | Ave | 0.2343 | 0.2396 | | 10.2 | 10.0 | 2.2 | 50.0 |
| Bromochloromethane | Ave | 0.1162 | 0.1128 | | 9.70 | 10.0 | -3.0 | 50.0 |
| Tetrahydrofuran | Ave | 0.0489 | 0.0513 | | 10.5 | 10.0 | 5.0 | 50.0 |
| Chloroform | Ave | 0.3776 | 0.3617 | | 9.58 | 10.0 | -4.2 | 20.0 |
| 1,1,1-Trichloroethane | Ave | 0.3004 | 0.3018 | | 10.0 | 10.0 | 0.5 | 50.0 |
| Cyclohexane | Ave | 0.3584 | 0.3505 | | 9.78 | 10.0 | -2.2 | 50.0 |
| 1,1-Dichloropropene | Ave | 0.2920 | 0.2834 | | 9.71 | 10.0 | -2.9 | 50.0 |
| Carbon tetrachloride | Ave | 0.2563 | 0.2749 | | 10.7 | 10.0 | 7.2 | 50.0 |
| 1,2-Dichloroethane | Ave | 0.2748 | 0.2575 | | 9.37 | 10.0 | -6.3 | 50.0 |
| Benzene | Ave | 0.8916 | 0.8677 | | 9.73 | 10.0 | -2.7 | 50.0 |
| Trichloroethene | Ave | 0.2412 | 0.2362 | | 9.79 | 10.0 | -2.1 | 50.0 |
| 1,2-Dichloropropane | Ave | 0.2012 | 0.1999 | | 9.94 | 10.0 | -0.6 | 20.0 |
| Methylcyclohexane | Ave | 0.3574 | 0.3500 | | 9.79 | 10.0 | -2.1 | 50.0 |
| ~~1,4-Dioxane~~ | Qua | | ~~0.0008~~ | | 319 | 500 | ~~-36.1~~ | 50.0 |
| Dibromomethane | Ave | 0.1174 | 0.1142 | | 9.72 | 10.0 | -2.8 | 50.0 |
| Bromodichloromethane | Ave | 0.2468 | 0.2510 | | 10.2 | 10.0 | 1.7 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Lab Sample ID: CCVIS 240-50786/2  Calibration Date: 07/13/2012 14:45

Instrument ID: A3UX10  Calib Start Date: 06/29/2012 09:19

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 06/29/2012 11:06

Lab File ID: UXX7799.D  Conc. Units: ug/L  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 2-Chloroethyl vinyl ether | Ave | 0.1104 | 0.1092 | | 19.8 | 20.0 | -1.1 | 50.0 |
| cis-1,3-Dichloropropene | Ave | 0.3014 | 0.3013 | | 10.0 | 10.0 | -0.0 | 50.0 |
| 4-Methyl-2-pentanone | Ave | 0.1457 | 0.1381 | | 19.0 | 20.0 | -5.2 | 50.0 |
| Toluene | Ave | 1.334 | 1.348 | | 10.1 | 10.0 | 1.1 | 20.0 |
| trans-1,3-Dichloropropene | Ave | 0.3654 | 0.3705 | | 10.1 | 10.0 | 1.4 | 50.0 |
| Ethyl methacrylate | Ave | 0.3235 | 0.3101 | | 9.59 | 10.0 | -4.1 | 50.0 |
| 1,1,2-Trichloroethane | Ave | 0.2436 | 0.2438 | | 10.0 | 10.0 | 0.0 | 50.0 |
| 1,3-Dichloropropane | Ave | 0.4485 | 0.4285 | | 9.55 | 10.0 | -4.5 | 50.0 |
| Tetrachloroethene | Ave | 0.2822 | 0.2852 | | 10.1 | 10.0 | 1.1 | 50.0 |
| 2-Hexanone | Ave | 0.1295 | 0.1243 | | 19.2 | 20.0 | -4.0 | 50.0 |
| Dibromochloromethane | Ave | 0.2485 | 0.2644 | | 10.6 | 10.0 | 6.4 | 50.0 |
| 1,2-Dibromoethane | Ave | 0.2411 | 0.2330 | | 9.66 | 10.0 | -3.4 | 50.0 |
| Chlorobenzene | Ave | 0.8688 | 0.8302 | 0.3000 | 9.56 | 10.0 | -4.4 | 50.0 |
| 1,1,1,2-Tetrachloroethane | Ave | 0.2769 | 0.2882 | | 10.4 | 10.0 | 4.1 | 50.0 |
| Ethylbenzene | Ave | 0.4528 | 0.4408 | | 9.74 | 10.0 | -2.6 | 20.0 |
| m-Xylene & p-Xylene | Ave | 0.5668 | 0.5584 | | 19.7 | 20.0 | -1.5 | 50.0 |
| o-Xylene | Ave | 0.5349 | 0.5173 | | 9.67 | 10.0 | -3.3 | 50.0 |
| Styrene | Ave | 0.8702 | 0.8590 | | 9.87 | 10.0 | -1.3 | 50.0 |
| Bromoform | Ave | 0.1434 | 0.1561 | 0.1000 | 10.9 | 10.0 | 8.9 | 50.0 |
| Isopropylbenzene | Ave | 1.312 | 1.257 | | 9.58 | 10.0 | -4.2 | 50.0 |
| 1,1,2,2-Tetrachloroethane | Ave | 0.5639 | 0.4973 | 0.3000 | 8.82 | 10.0 | -11.8 | 50.0 |
| Bromobenzene | Ave | 0.7038 | 0.6751 | | 9.59 | 10.0 | -4.1 | 50.0 |
| 1,2,3-Trichloropropane | Ave | 0.1939 | 0.1790 | | 9.23 | 10.0 | -7.7 | 50.0 |
| trans-1,4-Dichloro-2-butene | Ave | 0.1333 | 0.1212 | | 9.09 | 10.0 | -9.1 | 50.0 |
| n-Propylbenzene | Ave | 0.7180 | 0.6800 | | 9.47 | 10.0 | -5.3 | 50.0 |
| 2-Chlorotoluene | Ave | 0.6360 | 0.5952 | | 9.36 | 10.0 | -6.4 | 50.0 |
| 1,3,5-Trimethylbenzene | Ave | 2.031 | 1.905 | | 9.38 | 10.0 | -6.2 | 50.0 |
| 4-Chlorotoluene | Ave | 0.6702 | 0.6460 | | 9.64 | 10.0 | -3.6 | 50.0 |
| tert-Butylbenzene | Ave | 1.891 | 1.638 | | 8.66 | 10.0 | -13.4 | 50.0 |
| 1,2,4-Trimethylbenzene | Ave | 2.019 | 1.880 | | 9.31 | 10.0 | -6.9 | 50.0 |
| sec-Butylbenzene | Ave | 2.280 | 2.082 | | 9.13 | 10.0 | -8.7 | 50.0 |
| 1,3-Dichlorobenzene | Ave | 1.224 | 1.138 | | 9.30 | 10.0 | -7.0 | 50.0 |
| p-Isopropyltoluene | Ave | 1.922 | 1.797 | | 9.35 | 10.0 | -6.5 | 50.0 |
| 1,4-Dichlorobenzene | Ave | 1.281 | 1.208 | | 9.43 | 10.0 | -5.7 | 50.0 |
| n-Butylbenzene | Ave | 1.472 | 1.343 | | 9.12 | 10.0 | -8.8 | 50.0 |
| 1,2-Dichlorobenzene | Ave | 1.107 | 1.019 | | 9.21 | 10.0 | -7.9 | 50.0 |
| 1,2-Dibromo-3-Chloropropane | Ave | 0.0763 | 0.0691 | | 9.06 | 10.0 | -9.4 | 50.0 |
| 1,3,5-Trichlorobenzene | Ave | 0.6937 | 0.5964 | | 8.60 | 10.0 | -14.0 | 50.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.5852 | 0.4437 | | 7.58 | 10.0 | -24.2 | 50.0 |
| Hexachlorobutadiene | Ave | 0.2467 | 0.1908 | | 7.74 | 10.0 | -22.6 | 50.0 |
| Naphthalene | Ave | 1.227 | 0.7502 | | 6.12 | 10.0 | -38.8 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Lab Sample ID: CCVIS 240-50786/2  Calibration Date: 07/13/2012 14:45

Instrument ID: A3UX10  Calib Start Date: 06/29/2012 09:19

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 06/29/2012 11:06

Lab File ID: UXX7799.D  Conc. Units: ug/L  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 1,2,3-Trichlorobenzene | Qua | | 0.3313 | | 6.12 | 10.0 | -38.8 | 50.0 |
| Dibromofluoromethane (Surr) | Ave | 0.1929 | 0.1905 | | 11.9 | 12.0 | -1.2 | 50.0 |
| 1,2-Dichloroethane-d4 (Surr) | Ave | 0.2329 | 0.2235 | | 11.6 | 12.0 | -4.0 | 50.0 |
| Toluene-d8 (Surr) | Ave | 1.110 | 1.147 | | 12.4 | 12.0 | 3.4 | 50.0 |
| 4-Bromofluorobenzene (Surr) | Ave | 0.3701 | 0.3642 | | 11.8 | 12.0 | -1.6 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Lab Sample ID: CCV 240-50786/3  Calibration Date: 07/13/2012 15:07

Instrument ID: A3UX10  Calib Start Date: 06/29/2012 11:27

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 06/29/2012 13:15

Lab File ID: UXX7800.D  Conc. Units: ug/L  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorofluoromethane | Ave | 0.3292 | 0.3029 | | 9.20 | 10.0 | -8.0 | 50.0 |
| Ethyl ether | Ave | 0.1598 | 0.1600 | | 10.0 | 10.0 | 0.1 | 50.0 |
| 3-Chloro-1-propene | Ave | 0.1100 | 0.1067 | | 9.70 | 10.0 | -3.0 | 50.0 |
| Diisopropyl ether | Ave | 0.1935 | 0.1968 | | 50.8 | 50.0 | 1.7 | 50.0 |
| 2-Chloro-1,3-butadiene | Ave | 0.3017 | 0.2856 | | 9.47 | 10.0 | -5.3 | 50.0 |
| Ethyl-t-butyl ether (ETBE) | Ave | 0.5683 | 0.5552 | | 9.77 | 10.0 | -2.3 | 50.0 |
| Ethyl acetate | Ave | 0.1437 | 0.1375 | | 19.1 | 20.0 | -4.3 | 50.0 |
| Propionitrile | Ave | 0.0216 | 0.0190 | | 17.6 | 20.0 | -12.0 | 50.0 |
| Methacrylonitrile | Ave | 0.0980 | 0.0885 | | 9.03 | 10.0 | -9.7 | 50.0 |
| Isobutyl alcohol | Ave | 0.0066 | 0.0055 | | 165 | 200 | -17.5 | 50.0 |
| Tert-amyl-methyl ether (TAME) | Ave | 0.5241 | 0.5154 | | 9.83 | 10.0 | -1.7 | 50.0 |
| n-Heptane | Ave | 0.0451 | 0.0451 | | 10.0 | 10.0 | 0.0 | 50.0 |
| n-Butanol | Qua | | 0.0043 | | 136 | 200 | -31.9 | 50.0 |
| Methyl methacrylate | Ave | 0.1299 | 0.1250 | | 9.62 | 10.0 | -3.8 | 50.0 |
| 2-Nitropropane | Linl | | 0.0299 | | 18.4 | 20.0 | -8.0 | 50.0 |
| Cyclohexanone | Ave | 0.0313 | 0.0276 | | 88.3 | 100 | -11.7 | 50.0 |
| 1,2,3-Trimethylbenzene | Ave | 1.927 | 1.998 | | 10.4 | 10.0 | 3.7 | 50.0 |
| 2-Methylnaphthalene | Ave | 0.5054 | 0.1389 | | 5.50 | 20.0 | -72.5 | 50.0 |

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Lab File ID: UXX7802.D Lab Sample ID: MB 240-50786/5

Matrix: Water Heated Purge: (Y/N) N

Instrument ID: A3UX10 Date Analyzed: 07/13/2012 15:49

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| | LCS 240-50786/4 | UXX7801.D | 07/13/2012 15:28 |
| | 240-13086-E-8 MS | UXX7811.D | 07/13/2012 19:14 |
| | 240-13086-D-8 MSD | UXX7812.D | 07/13/2012 19:35 |
| TB-070912 | 240-13043-1 | UXX7821.D | 07/13/2012 22:46 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-50786/5

Matrix: Water | Lab File ID: UXX7802.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2012 15:49

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 50786 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.23 |
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 1.0 | 0.22 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.18 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trichfluoroeth ane | 1.0 | U | 1.0 | 0.28 |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.15 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.19 |
| 563-58-6 | 1,1-Dichloropropene | 1.0 | U | 1.0 | 0.13 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.580 | J | 1.0 | 0.17 |
| 96-18-4 | 1,2,3-Trichloropropane | 1.0 | U | 1.0 | 0.43 |
| 526-73-8 | 1,2,3-Trimethylbenzene | 5.0 | U | 5.0 | 0.0059 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.15 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.12 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 2.0 | U | 2.0 | 0.67 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.13 |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.22 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.18 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.14 |
| 142-28-9 | 1,3-Dichloropropane | 1.0 | U | 1.0 | 0.16 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.13 |
| 594-20-7 | 2,2-Dichloropropane | 1.0 | U | 1.0 | 0.13 |
| 110-75-8 | 2-Chloroethyl vinyl ether | 10 | U | 10 | 0.99 |
| 95-49-8 | 2-Chlorotoluene | 1.0 | U | 1.0 | 0.11 |
| 591-78-6 | 2-Hexanone | 10 | U | 10 | 0.41 |
| 106-43-4 | 4-Chlorotoluene | 1.0 | U | 1.0 | 0.18 |
| 67-64-1 | Acetone | 10 | U | 10 | 1.1 |
| 71-43-2 | Benzene | 1.0 | U | 1.0 | 0.13 |
| 108-86-1 | Bromobenzene | 1.0 | U | 1.0 | 0.13 |
| 74-97-5 | Bromochloromethane | 1.0 | U | 1.0 | 0.29 |
| 75-25-2 | Bromoform | 1.0 | U | 1.0 | 0.64 |
| 74-83-9 | Bromomethane | 1.0 | U | 1.0 | 0.41 |
| 75-15-0 | Carbon disulfide | 1.0 | U | 1.0 | 0.13 |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 1.0 | 0.13 |
| 108-90-7 | Chlorobenzene | 1.0 | U | 1.0 | 0.15 |
| 75-00-3 | Chloroethane | 1.0 | U | 1.0 | 0.29 |
| 67-66-3 | Chloroform | 1.0 | U | 1.0 | 0.16 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Client Sample ID:  Lab Sample ID: MB 240-50786/5

Matrix: Water  Lab File ID: UXX7802.D

Analysis Method: 8260B  Date Collected:

Sample wt/vol: 5(mL)  Date Analyzed: 07/13/2012 15:49

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 50786  Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | 1.0 | U | 1.0 | 0.30 |
| 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.17 |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 1.0 | 0.15 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.14 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.24 |
| 74-95-3 | Dibromomethane | 1.0 | U | 1.0 | 0.28 |
| 75-71-8 | Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.31 |
| 108-20-3 | Diisopropyl ether | 10 | U | 10 | 1.5 |
| 100-41-4 | Ethylbenzene | 1.0 | U | 1.0 | 0.17 |
| 87-68-3 | Hexachlorobutadiene | 1.0 | U | 1.0 | 0.30 |
| 98-82-8 | Isopropylbenzene | 1.0 | U | 1.0 | 0.13 |
| 78-93-3 | 2-Butanone | 10 | U | 10 | 0.57 |
| 108-10-1 | 4-Methyl-2-pentanone | 10 | U | 10 | 0.32 |
| 179601-23-1 | m-Xylene & p-Xylene | 2.0 | U | 2.0 | 0.24 |
| 1634-04-4 | Methyl tert-butyl ether | 5.0 | U | 5.0 | 0.17 |
| 91-20-3 | Naphthalene | 0.761 | J | 1.0 | 0.24 |
| 104-51-8 | n-Butylbenzene | 1.0 | U | 1.0 | 0.12 |
| 75-09-2 | Methylene Chloride | 1.0 | U | 1.0 | 0.33 |
| 103-65-1 | n-Propylbenzene | 1.0 | U | 1.0 | 0.14 |
| 95-47-6 | o-Xylene | 1.0 | U | 1.0 | 0.14 |
| 99-87-6 | p-Isopropyltoluene | 1.0 | U | 1.0 | 0.12 |
| 135-98-8 | sec-Butylbenzene | 1.0 | U | 1.0 | 0.13 |
| 637-92-3 | Ethyl-t-butyl ether (ETBE) | 5.0 | U | 5.0 | 0.11 |
| 100-42-5 | Styrene | 1.0 | U | 1.0 | 0.11 |
| 994-05-8 | Tert-amyl-methyl ether (TAME) | 5.0 | U | 5.0 | 0.067 |
| 98-06-6 | tert-Butylbenzene | 1.0 | U | 1.0 | 0.13 |
| 127-18-4 | Tetrachloroethene | 1.0 | U | 1.0 | 0.29 |
| 108-88-3 | Toluene | 1.0 | U | 1.0 | 0.13 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.19 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.19 |
| 79-01-6 | Trichloroethene | 1.0 | U | 1.0 | 0.17 |
| 75-69-4 | Trichlorofluoromethane | 1.0 | U | 1.0 | 0.21 |
| 75-65-0 | tert-Butyl alcohol | 4.05 | J | 50 | 3.9 |
| 108-05-4 | Vinyl acetate | 2.0 | U | 2.0 | 0.19 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 1.0 | 0.22 |
| 124-48-1 | Dibromochloromethane | 1.0 | U | 1.0 | 0.18 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Client Sample ID:  Lab Sample ID: MB 240-50786/5

Matrix: Water  Lab File ID: UXX7802.D

Analysis Method: 8260B  Date Collected:

Sample wt/vol: 5(mL)  Date Analyzed: 07/13/2012 15:49

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 50786  Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 1330-20-7 | Xylenes, Total | 2.0 | U | 2.0 | 0.28 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 92 | | 63-129 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 94 | | 66-117 |
| 2037-26-5 | Toluene-d8 (Surr) | 100 | | 74-115 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 97 | | 75-121 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-50786/5

Matrix: Water | Lab File ID: UXX7802.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2012 15:49

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 50786 | Units: ug/L

Number TICs Found: 3 | TIC Result Total: 19.94

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| | Tentatively Identified Compound | | None | |
| 109-99-9 | Tetrahydrofuran | 4.50 | 2.10 | J |
| 108-94-1 | Cyclohexanone | 8.93 | 17.2 | J |
| 91-57-6 | 2-Methylnaphthalene | 13.68 | 0.640 | J |

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXX7801.D

Lab ID: LCS 240-50786/4 Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 10.0 | 9.75 | 98 | 72-116 | |
| 1,1,1-Trichloroethane | 10.0 | 9.54 | 95 | 74-118 | |
| 1,1,2,2-Tetrachloroethane | 10.0 | 8.34 | 83 | 68-118 | |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 10.0 | 9.41 | 94 | 74-151 | |
| 1,1-Dichloroethane | 10.0 | 9.54 | 95 | 82-115 | |
| 1,1-Dichloroethene | 10.0 | 9.17 | 92 | 78-131 | |
| 1,1-Dichloropropene | 10.0 | 9.22 | 92 | 83-114 | |
| 1,2,3-Trichlorobenzene | 10.0 | 6.09 | 61 | 54-126 | |
| 1,2,3-Trichloropropane | 10.0 | 8.89 | 89 | 73-129 | |
| 1,2,3-Trimethylbenzene | 10.0 | 8.90 | 89 | 70-130 | |
| 1,2,4-Trichlorobenzene | 10.0 | 7.07 | 71 | 48-135 | |
| 1,2,4-Trimethylbenzene | 10.0 | 8.86 | 89 | 76-120 | |
| 1,2-Dibromo-3-Chloropropane | 10.0 | 8.94 | 89 | 42-136 | |
| 1,2-Dichlorobenzene | 10.0 | 8.79 | 88 | 81-110 | |
| 1,2-Dichloroethane | 10.0 | 8.96 | 90 | 71-127 | |
| 1,2-Dichloropropane | 10.0 | 9.53 | 95 | 81-115 | |
| 1,3-Dichlorobenzene | 10.0 | 8.92 | 89 | 80-110 | |
| 1,3-Dichloropropane | 10.0 | 9.34 | 93 | 79-116 | |
| 1,4-Dichlorobenzene | 10.0 | 8.92 | 89 | 82-110 | |
| 2,2-Dichloropropane | 10.0 | 9.72 | 97 | 50-129 | |
| 2-Chloroethyl vinyl ether | 10.0 | 7.90 J | 79 | 52-131 | |
| 2-Chlorotoluene | 10.0 | 8.95 | 90 | 76-116 | |
| 2-Hexanone | 20.0 | 17.0 | 85 | 55-133 | |
| 4-Chlorotoluene | 10.0 | 9.19 | 92 | 77-115 | |
| Acetone | 20.0 | 18.2 | 91 | 43-136 | |
| Benzene | 10.0 | 9.49 | 95 | 83-112 | |
| Bromobenzene | 10.0 | 9.09 | 91 | 76-115 | |
| Bromochloromethane | 10.0 | 9.02 | 90 | 77-120 | |
| Bromoform | 10.0 | 10.2 | 102 | 40-131 | |
| Bromomethane | 10.0 | 8.86 | 89 | 11-185 | |
| Carbon disulfide | 10.0 | 8.45 | 85 | 62-142 | |
| Carbon tetrachloride | 10.0 | 9.98 | 100 | 66-128 | |
| Chlorobenzene | 10.0 | 9.07 | 91 | 85-110 | |
| Chloroethane | 10.0 | 8.47 | 85 | 25-153 | |
| Chloroform | 10.0 | 8.90 | 89 | 79-117 | |
| Chloromethane | 10.0 | 8.09 | 81 | 44-126 | |
| cis-1,2-Dichloroethene | 10.0 | 8.97 | 90 | 80-113 | |
| Bromodichloromethane | 10.0 | 9.74 | 97 | 72-121 | |
| cis-1,3-Dichloropropene | 10.0 | 9.13 | 91 | 61-115 | |
| 1,2-Dibromoethane | 10.0 | 9.24 | 92 | 79-113 | |
| Dibromomethane | 10.0 | 9.56 | 96 | 81-120 | |

# Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXX7801.D

Lab ID: LCS 240-50786/4 Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 10.0 | 6.02 | 60 | 19-129 | |
| Diisopropyl ether | 10.0 | 9.93 J | 99 | 77-118 | |
| Ethylbenzene | 10.0 | 9.24 | 92 | 83-112 | |
| Hexachlorobutadiene | 10.0 | 6.63 | 66 | 36-134 | |
| Isopropylbenzene | 10.0 | 9.03 | 90 | 75-114 | |
| 2-Butanone | 20.0 | 17.8 | 89 | 60-126 | |
| 4-Methyl-2-pentanone | 20.0 | 17.1 | 86 | 63-128 | |
| m-Xylene & p-Xylene | 20.0 | 18.5 | 93 | 83-113 | |
| Methyl tert-butyl ether | 10.0 | 8.99 | 90 | 52-144 | |
| Naphthalene | 10.0 | 6.03 | 60 | 32-141 | |
| n-Butylbenzene | 10.0 | 8.66 | 87 | 66-125 | |
| Methylene Chloride | 10.0 | 8.24 | 82 | 66-131 | |
| n-Propylbenzene | 10.0 | 9.30 | 93 | 74-121 | |
| o-Xylene | 10.0 | 9.11 | 91 | 83-113 | |
| p-Isopropyltoluene | 10.0 | 9.07 | 91 | 74-120 | |
| sec-Butylbenzene | 10.0 | 8.56 | 86 | 70-117 | |
| Styrene | 10.0 | 9.43 | 94 | 79-114 | |
| tert-Butylbenzene | 10.0 | 8.20 | 82 | 71-115 | |
| Tetrachloroethene | 10.0 | 9.50 | 95 | 79-114 | |
| Toluene | 10.0 | 9.54 | 95 | 84-111 | |
| trans-1,2-Dichloroethene | 10.0 | 9.31 | 93 | 83-117 | |
| trans-1,3-Dichloropropene | 10.0 | 9.55 | 96 | 58-117 | |
| Trichloroethene | 10.0 | 9.60 | 96 | 76-117 | |
| Trichlorofluoromethane | 10.0 | 10.1 | 101 | 49-157 | |
| tert-Butyl alcohol | 200 | 151 | 75 | 70-130 | |
| Vinyl acetate | 10.0 | 7.40 | 74 | 46-161 | |
| Vinyl chloride | 10.0 | 8.18 | 82 | 53-127 | |
| Dibromochloromethane | 10.0 | 9.95 | 100 | 64-119 | |
| Xylenes, Total | 30.0 | 27.6 | 92 | 83-112 | |

# Column to be used to flag recovery and RPD values

FORM III 8260B

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Lab File ID: BFB8979.D BFB Injection Date: 06/01/2012

Instrument ID: A3UX8 BFB Injection Time: 01:25

Analysis Batch No.: 45924

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 50 | 15.0 - 40.0 % of mass 95 | 19.5 | |
| 75 | 30.0 - 60.0 % of mass 95 | 38.7 | |
| 95 | Base Peak, 100% relative abundance | 100.0 | |
| 96 | 5.0 - 9.0 % of mass 95 | 6.8 | |
| 173 | Less than 2.0 % of mass 174 | 0.6 | (0.6)1 |
| 174 | 50.0 - 120.00 % of mass 95 | 96.3 | |
| 175 | 5.0 - 9.0 % of mass 174 | 7.1 | (7.4)1 |
| 176 | 95.0 - 101.0 % of mass 174 | 94.2 | (97.8)1 |
| 177 | 5.0 - 9.0 % of mass 176 | 6.0 | (6.3)2 |

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | STD8260 240-45924/3 | UX88957.D | 06/01/2012 | 02:08 |
| | STD8260 240-45924/4 | UX88958.D | 06/01/2012 | 02:29 |
| | STD8260 240-45924/5 | UX88959.D | 06/01/2012 | 02:51 |
| | STD8260 240-45924/6 | UX88960.D | 06/01/2012 | 03:12 |
| | STD8260 240-45924/7 | UX88961.D | 06/01/2012 | 03:33 |
| | STD8260 240-45924/8 | UX88962.D | 06/01/2012 | 03:54 |
| | STD8260 240-45924/9 | UX88963.D | 06/01/2012 | 04:15 |
| | STD8260 240-45924/10 | UX88964.D | 06/01/2012 | 04:37 |
| | STDA9 240-45924/11 | UX88965.D | 06/01/2012 | 04:58 |
| | STDA9 240-45924/12 | UX88966.D | 06/01/2012 | 05:19 |
| | STDA9 240-45924/13 | UX88967.D | 06/01/2012 | 05:40 |
| | STDA9 240-45924/14 | UX88968.D | 06/01/2012 | 06:01 |
| | STDA9 240-45924/15 | UX88969.D | 06/01/2012 | 06:23 |
| | STDA9 240-45924/16 | UX88970.D | 06/01/2012 | 06:44 |
| | ICV 240-45924/17 | UX88971.D | 06/01/2012 | 07:05 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 45924

SDG No.:

Instrument ID: A3UX8 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 06/01/2012 02:08 Calibration End Date: 06/01/2012 04:37 Calibration ID: 9093

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD8260 240-45924/10 | UX88964.D |
| Level 2 | STD8260 240-45924/9 | UX88963.D |
| Level 3 | STD8260 240-45924/8 | UX88962.D |
| Level 4 | STD8260 240-45924/7 | UX88961.D |
| Level 5 | STD8260 240-45924/6 | UX88960.D |
| Level 6 | STD8260 240-45924/5 | UX88959.D |
| Level 7 | STD8260 240-45924/4 | UX88958.D |
| Level 8 | STD8260 240-45924/3 | UX88957.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1 LVL 6 | LVL 2 LVL 7 | LVL 3 LVL 8 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Dichlorodifluoromethane | 0.2715 0.1519 | 0.0808 0.1469 | 0.1647 0.1473 | 0.1475 | 0.1499 | Lin1 | 0.0438 | 0.1473 | | | | | | | 0.9970 | | 0.9900 |
| Chloromethane | 0.2944 0.2371 | 0.2022 0.2398 | 0.2565 0.2373 | 0.2436 | 0.2403 | Ave | | 0.2439 | | | 0.1000 | 10.0 | | 15.0 | | | |
| Vinyl chloride | 0.1402 0.1490 | 0.0988 0.1324 | 0.1439 0.1447 | 0.1518 | 0.1555 | Ave | | 0.1396 | | | | 13.0 | | 15.0 | | | |
| Bromomethane | 0.1068 0.0780 | 0.0865 | 0.0979 | 0.0855 | 0.0857 | Ave | | 0.0901 | | | | 12.0 | | 15.0 | | | |
| Chloroethane | 0.0780 0.0736 | 0.0739 0.0654 | 0.0814 0.0586 | 0.0714 | 0.0763 | Ave | | 0.0723 | | | | 10.0 | | 15.0 | | | |
| Trichlorofluoromethane | 0.1876 0.1854 | 0.0985 0.1980 | 0.1938 0.1828 | 0.1674 | 0.1930 | Lin1 | -0.052 | 0.1880 | | | | | | | 0.9970 | | 0.9900 |
| ~~Acrolein~~ | 0.0420 0.0488 | 0.0505 0.0467 | 0.0554 0.0487 | 0.0477 | 0.0488 | Ave | | ~~0.0486~~ | | | | 7.7 | | 15.0 | | | |
| 1,1-Dichloroethene | 0.1506 0.1897 | 0.1597 0.1900 | 0.1653 0.1918 | 0.1872 | 0.1812 | Ave | | 0.1769 | | | | 9.1 | | 15.0 | | | |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 0.0639 0.1704 | 0.0805 0.1712 | 0.1507 0.1701 | 0.1725 | 0.1625 | Lin1 | -0.123 | 0.1716 | | | | | | | 1.0000 | | 0.9900 |
| Acetone | 0.3830 0.0858 | 0.2341 0.0838 | 0.1413 0.0849 | 0.1131 | 0.0983 | Lin1 | 0.6009 | 0.0822 | | | | | | | 1.0000 | | 0.9900 |
| Iodomethane | 0.4228 0.4121 | 0.3761 0.4123 | 0.3853 0.4149 | 0.4167 | 0.3910 | Ave | | 0.4039 | | | | 4.3 | | 15.0 | | | |
| Carbon disulfide | 0.4298 0.5937 | 0.4332 0.6034 | 0.4959 0.6194 | 0.5473 | 0.5403 | Ave | | 0.5329 | | | | 14.0 | | 15.0 | | | |
| ~~Acetonitrile~~ | 0.0472 0.0392 | 0.0471 0.0382 | 0.0422 0.0394 | 0.0420 | 0.0402 | Ave | | ~~0.0419~~ | | | | 8.3 | | 15.0 | | | |
| Methyl acetate | 0.2111 0.2059 | 0.2251 0.2057 | 0.2112 0.2240 | 0.2116 | 0.2169 | Ave | | 0.2139 | | | | 3.5 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 45924

SDG No.:

Instrument ID: A3UX8 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 06/01/2012 02:08 Calibration End Date: 06/01/2012 04:37 Calibration ID: 9093

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Hexane | +++++<br>0.0527 | 0.0287<br>0.0547 | 0.0457<br>0.0537 | 0.0517 | 0.0494 | Lin1 | -0.048 | 0.0542 | | | | | | | 1.0000 | | 0.9900 |
| Methylene Chloride | 1.0778<br>0.2539 | 0.5879<br>0.2450 | 0.3860<br>0.2448 | 0.2968 | 0.2659 | Lin1 | 0.7701 | 0.2383 | | | | | | | 0.9990 | | 0.9900 |
| Vinyl acetate | +++++<br>0.0418 | 0.0204<br>0.0425 | 0.0355<br>0.0447 | 0.0356 | 0.0399 | Lin1 | -0.054 | 0.0440 | | | | | | | 0.9990 | | 0.9900 |
| tert-Butyl alcohol | 0.0165<br>0.0195 | 0.0179<br>0.0197 | 0.0169<br>0.0189 | 0.0183 | 0.0214 | Ave | | 0.0186 | | | | 8.6 | | 15.0 | | | |
| Acrylonitrile | 0.0940<br>0.1075 | 0.1089<br>0.1055 | 0.1067<br>0.1120 | 0.1100 | 0.1079 | Ave | | 0.1066 | | | | 5.1 | | 15.0 | | | |
| trans-1,2-Dichloroethene | 0.2064<br>0.2322 | 0.2138<br>0.2330 | 0.2119<br>0.2321 | 0.2298 | 0.2227 | Ave | | 0.2227 | | | | 4.8 | | 15.0 | | | |
| Methyl tert-butyl ether | 0.5598<br>0.5422 | 0.4979<br>0.5502 | 0.5399<br>0.5403 | 0.5369 | 0.5487 | Ave | | 0.5395 | | | | 3.4 | | 15.0 | | | |
| 1,1-Dichloroethane | 0.3476<br>0.3660 | 0.3521<br>0.3685 | 0.3506<br>0.3785 | 0.3579 | 0.3631 | Ave | | 0.3605 | | | 0.1000 | 2.9 | | 15.0 | | | |
| 2-Butanone | 0.1499<br>0.1191 | 0.1465<br>0.1185 | 0.1320<br>0.1283 | 0.1310 | 0.1298 | Ave | | 0.1319 | | | | 8.6 | | 15.0 | | | |
| cis-1,2-Dichloroethene | 0.2552<br>0.2578 | 0.2373<br>0.2565 | 0.2473<br>0.2606 | 0.2555 | 0.2545 | Ave | | 0.2531 | | | | 2.9 | | 15.0 | | | |
| 2,2-Dichloropropane | 0.0829<br>0.1686 | 0.1091<br>0.1688 | 0.1269<br>0.1554 | 0.1431 | 0.1530 | Lin1 | -0.097 | 0.1613 | | | | | | | 0.9980 | | 0.9900 |
| Bromochloromethane | 0.1462<br>0.1444 | 0.1358<br>0.1462 | 0.1376<br>0.1488 | 0.1388 | 0.1411 | Ave | | 0.1424 | | | | 3.3 | | 15.0 | | | |
| Tetrahydrofuran | 0.1222<br>0.0829 | 0.1113<br>0.0830 | 0.0884<br>0.0920 | 0.0860 | 0.0874 | Ave | | 0.0942 | | | | 15.0 | | 15.0 | | | |
| Chloroform | 0.3784<br>0.3486 | 0.3230<br>0.3514 | 0.3287<br>0.3584 | 0.3491 | 0.3415 | Ave | | 0.3474 | | | | 5.0 | | 15.0 | | | |
| 1,1,1-Trichloroethane | 0.1829<br>0.2768 | 0.2162<br>0.2794 | 0.2184<br>0.2804 | 0.2566 | 0.2591 | Ave | | 0.2462 | | | | 15.0 | | 15.0 | | | |
| Cyclohexane | 0.2388<br>0.4559 | 0.2636<br>0.4578 | 0.3910<br>0.4510 | 0.4282 | 0.4289 | Lin1 | -0.279 | 0.4551 | | | | | | | 1.0000 | | 0.9900 |
| 1,1-Dichloropropene | 0.1744<br>0.2435 | 0.1910<br>0.2486 | 0.2225<br>0.2518 | 0.2362 | 0.2373 | Ave | | 0.2256 | | | | 13.0 | | 15.0 | | | |
| Carbon tetrachloride | 0.1474<br>0.2429 | 0.1485<br>0.2486 | 0.1774<br>0.2526 | 0.2238 | 0.2205 | Lin1 | -0.179 | 0.2498 | | | | | | | 0.9990 | | 0.9900 |
| 1,2-Dichloroethane | 0.2444<br>0.2465 | 0.2670<br>0.2549 | 0.2467<br>0.2615 | 0.2521 | 0.2514 | Ave | | 0.2531 | | | | 3.1 | | 15.0 | | | |
| Benzene | 0.8105<br>0.7901 | 0.7798<br>0.8086 | 0.7550<br>0.8330 | 0.7969 | 0.7922 | Ave | | 0.7958 | | | | 2.9 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 45924

SDG No.:

Instrument ID: A3UX8 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 06/01/2012 02:08 Calibration End Date: 06/01/2012 04:37 Calibration ID: 9093

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 2-Chloroethyl vinyl ether | ++++++<br>0.0238 | 0.0169<br>0.0267 | 0.0204<br>0.0313 | 0.0219 | 0.0233 | Qua | -0.015 | 0.0220 | 0 | | | | | | 1.0000 | | 0.9900 |
| Trichloroethene | 0.2243<br>0.2513 | 0.2509<br>0.2603 | 0.2313<br>0.2649 | 0.2539 | 0.2532 | Ave | | 0.2487 | | | | 5.6 | | 15.0 | | | |
| Methylcyclohexane | 0.2118<br>0.4003 | 0.1912<br>0.4082 | 0.3418<br>0.3981 | 0.3665 | 0.3811 | Lin1 | -0.277 | 0.4027 | | | | | | | 0.9990 | | 0.9900 |
| 1,2-Dichloropropane | 0.1805<br>0.2033 | 0.1843<br>0.2080 | 0.1938<br>0.2127 | 0.2041 | 0.2031 | Ave | | 0.1987 | | | | 5.7 | | 15.0 | | | |
| Dibromomethane | 0.0952<br>0.1194 | 0.1175<br>0.1219 | 0.1139<br>0.1271 | 0.1138 | 0.1216 | Ave | | 0.1163 | | | | 8.2 | | 15.0 | | | |
| 1,4-Dioxane | 0.0025<br>0.0020 | 0.0025<br>0.0020 | 0.0020<br>0.0019 | 0.0021 | 0.0024 | Ave | | 0.0022 | | | | 10.0 | | 15.0 | | | |
| Bromodichloromethane | 0.2015<br>0.2316 | 0.1911<br>0.2459 | 0.2026<br>0.2570 | 0.2127 | 0.2244 | Ave | | 0.2208 | | | | 10.0 | | 15.0 | | | |
| cis-1,3-Dichloropropene | 0.1591<br>0.2647 | 0.1991<br>0.2829 | 0.2037<br>0.2992 | 0.2262 | 0.2547 | Lin1 | -0.224 | 0.2889 | | | | | | | 0.9970 | | 0.9900 |
| 4-Methyl-2-pentanone | 0.2036<br>0.2427 | 0.2289<br>0.2447 | 0.2315<br>0.2610 | 0.2391 | 0.2431 | Ave | | 0.2368 | | | | 7.0 | | 15.0 | | | |
| Toluene | 1.2618<br>1.1963 | 1.0799<br>1.1982 | 1.1210<br>1.2635 | 1.2019 | 1.1935 | Ave | | 1.1895 | | | | 5.3 | | 15.0 | | | |
| trans-1,3-Dichloropropene | 0.2005<br>0.2816 | 0.1787<br>0.3038 | 0.2057<br>0.3318 | 0.2370 | 0.2604 | Qua | -0.299 | 0.2765 | 0.0003 | | | | | | 1.0000 | | 0.9900 |
| Ethyl methacrylate | 0.1819<br>0.2949 | 0.2235<br>0.3018 | 0.2312<br>0.3253 | 0.2658 | 0.2936 | Lin1 | -0.211 | 0.3144 | | | | | | | 0.9980 | | 0.9900 |
| 1,1,2-Trichloroethane | 0.2105<br>0.2310 | 0.2365<br>0.2316 | 0.2154<br>0.2478 | 0.2322 | 0.2385 | Ave | | 0.2304 | | | | 5.3 | | 15.0 | | | |
| 1,3-Dichloropropane | 0.3751<br>0.3653 | 0.3792<br>0.3653 | 0.3575<br>0.3841 | 0.3601 | 0.3777 | Ave | | 0.3705 | | | | 2.6 | | 15.0 | | | |
| Tetrachloroethene | 0.1897<br>0.2669 | 0.2069<br>0.2690 | 0.2355<br>0.2762 | 0.2606 | 0.2664 | Ave | | 0.2464 | | | | 13.0 | | 15.0 | | | |
| 2-Hexanone | 0.1516<br>0.1976 | 0.1995<br>0.1883 | 0.1988<br>0.2091 | 0.2053 | 0.2036 | Ave | | 0.1942 | | | | 9.4 | | 15.0 | | | |
| Dibromochloromethane | 0.1902<br>0.2816 | 0.1961<br>0.2914 | 0.2080<br>0.3169 | 0.2388 | 0.2644 | Lin1 | -0.234 | 0.3036 | | | | | | | 0.9960 | | 0.9900 |
| 1,2-Dibromoethane | 0.2149<br>0.2489 | 0.2178<br>0.2450 | 0.2240<br>0.2636 | 0.2394 | 0.2552 | Ave | | 0.2386 | | | | 7.5 | | 15.0 | | | |
| Chlorobenzene | 0.8847<br>0.8463 | 0.7973<br>0.8554 | 0.8028<br>0.8959 | 0.8434 | 0.8568 | Ave | | 0.8478 | | | 0.3000 | 4.1 | | 15.0 | | | |
| 1,1,1,2-Tetrachloroethane | 0.2543<br>0.3065 | 0.2260<br>0.3130 | 0.2496<br>0.3239 | 0.2668 | 0.2844 | Ave | | 0.2781 | | | | 12.0 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-13043-1  Analy Batch No.: 45924

SDG No.:

Instrument ID: A3UX8  GC Column: DB-624  ID: 0.18(mm)  Heated Purge: (Y/N) Y

Calibration Start Date: 06/01/2012 02:08  Calibration End Date: 06/01/2012 04:37  Calibration ID: 9093

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Ethylbenzene | 0.4142<br>0.4439 | 0.3638<br>0.4438 | 0.3955<br>0.4588 | 0.4347 | 0.4397 | Ave | | 0.4243 | | | | 7.4 | | 15.0 | | | |
| m-Xylene & p-Xylene | 0.4921<br>0.5460 | 0.4888<br>0.5409 | 0.4960<br>0.5602 | 0.5367 | 0.5378 | Ave | | 0.5248 | | | | 5.3 | | 15.0 | | | |
| o-Xylene | 0.4749<br>0.5606 | 0.5308<br>0.5547 | 0.5157<br>0.5637 | 0.5323 | 0.5555 | Ave | | 0.5360 | | | | 5.6 | | 15.0 | | | |
| Styrene | 0.7742<br>0.8892 | 0.7167<br>0.8998 | 0.7746<br>0.9351 | 0.8388 | 0.8626 | Ave | | 0.8364 | | | | 9.0 | | 15.0 | | | |
| Bromoform | 0.1184<br>0.1644 | 0.0957<br>0.1794 | 0.1150<br>0.1991 | 0.1403 | 0.1524 | Qua | -0.174 | 0.1600 | 0.0002 | | 0.1000 | | | | 1.0000 | | 0.9900 |
| Isopropylbenzene | 1.1044<br>1.4032 | 1.1649<br>1.4211 | 1.1911<br>1.4401 | 1.3802 | 1.3880 | Ave | | 1.3116 | | | | 10.0 | | 15.0 | | | |
| 1,1,2,2-Tetrachloroethane | 0.4662<br>0.5554 | 0.5173<br>0.5475 | 0.4828<br>0.5697 | 0.5168 | 0.5600 | Ave | | 0.5270 | | | 0.3000 | 7.2 | | 15.0 | | | |
| Bromobenzene | 0.6822<br>0.7061 | 0.6506<br>0.7072 | 0.6338<br>0.7247 | 0.6754 | 0.7007 | Ave | | 0.6851 | | | | 4.5 | | 15.0 | | | |
| 1,2,3-Trichloropropane | 0.1711<br>0.1890 | 0.1891<br>0.1864 | 0.1805<br>0.1990 | 0.1934 | 0.2024 | Ave | | 0.1889 | | | | 5.3 | | 15.0 | | | |
| trans-1,4-Dichloro-2-butene | 0.1465<br>0.1460 | 0.1163<br>0.1473 | 0.1187<br>0.1680 | 0.1383 | 0.1474 | Ave | | 0.1411 | | | | 12.0 | | 15.0 | | | |
| n-Propylbenzene | 0.5153<br>0.7314 | 0.5764<br>0.7324 | 0.5939<br>0.7373 | 0.7018 | 0.7245 | Ave | | 0.6641 | | | | 13.0 | | 15.0 | | | |
| 2-Chlorotoluene | 0.5883<br>0.6594 | 0.5988<br>0.6608 | 0.5687<br>0.6596 | 0.6289 | 0.6570 | Ave | | 0.6277 | | | | 6.0 | | 15.0 | | | |
| 1,3,5-Trimethylbenzene | 1.7191<br>2.1538 | 1.6605<br>2.1740 | 1.7431<br>2.1687 | 2.0048 | 2.0561 | Ave | | 1.9600 | | | | 11.0 | | 15.0 | | | |
| 4-Chlorotoluene | 0.6006<br>0.6589 | 0.5360<br>0.6592 | 0.5626<br>0.6674 | 0.6332 | 0.6539 | Ave | | 0.6215 | | | | 8.0 | | 15.0 | | | |
| tert-Butylbenzene | 1.5705<br>2.0166 | 1.7480<br>2.0549 | 1.6031<br>2.2606 | 1.9291 | 1.9642 | Ave | | 1.8934 | | | | 12.0 | | 15.0 | | | |
| 1,2,4-Trimethylbenzene | 1.8535<br>2.0979 | 1.7247<br>2.1538 | 1.7733<br>2.1567 | 2.0438 | 2.0648 | Ave | | 1.9836 | | | | 8.7 | | 15.0 | | | |
| 1,2-Dibromo-3-Chloropropane | +++++<br>0.1168 | 0.0852<br>0.1212 | 0.0767<br>0.1365 | 0.1031 | 0.1058 | Qua | -0.086 | 0.1089 | 0.0001 | | | | | | 1.0000 | | 0.9900 |
| sec-Butylbenzene | 2.0045<br>2.7260 | 2.0790<br>2.7797 | 2.2388<br>2.8109 | 2.6536 | 2.6794 | Ave | | 2.4965 | | | | 13.0 | | 15.0 | | | |
| 1,3-Dichlorobenzene | 1.3000<br>1.3001 | 1.2227<br>1.3311 | 1.2063<br>1.3240 | 1.3321 | 1.3025 | Ave | | 1.2898 | | | | 3.8 | | 15.0 | | | |
| p-Isopropyltoluene | 1.5785<br>2.2933 | 1.6839<br>2.3751 | 1.8924<br>2.3660 | 2.2210 | 2.2354 | Ave | | 2.0807 | | | | 15.0 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 45924

SDG No.:

Instrument ID: A3UX8 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 06/01/2012 02:08 Calibration End Date: 06/01/2012 04:37 Calibration ID: 9093

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 1,4-Dichlorobenzene | 1.4953<br>1.3015 | 1.2863<br>1.3366 | 1.2219<br>1.3535 | 1.3293 | 1.3269 | Ave | | 1.3314 | | | | 5.8 | | 15.0 | | | |
| n-Butylbenzene | 1.3421<br>1.7901 | 1.3344<br>1.8782 | 1.4582<br>1.8437 | 1.7013 | 1.7507 | Ave | | 1.6373 | | | | 14.0 | | 15.0 | | | |
| 1,2-Dichlorobenzene | 1.3123<br>1.2645 | 1.2220<br>1.2905 | 1.2273<br>1.2717 | 1.2793 | 1.2978 | Ave | | 1.2707 | | | | 2.5 | | 15.0 | | | |
| 1,3,5-Trichlorobenzene | 0.8241<br>0.8583 | 0.7389<br>0.9213 | 0.7961<br>0.8972 | 0.8759 | 0.8615 | Ave | | 0.8467 | | | | 6.9 | | 15.0 | | | |
| 1,2,4-Trichlorobenzene | 0.7316<br>0.7458 | 0.6717<br>0.7965 | 0.7016<br>0.7761 | 0.7607 | 0.7493 | Ave | | 0.7416 | | | | 5.4 | | 15.0 | | | |
| Hexachlorobutadiene | 0.3390<br>0.3450 | 0.2910<br>0.3755 | 0.3054<br>0.3594 | 0.3618 | 0.3529 | Ave | | 0.3413 | | | | 8.5 | | 15.0 | | | |
| Naphthalene | 1.8722<br>1.9336 | 1.6971<br>1.9961 | 1.6862<br>2.0302 | 1.8762 | 1.9237 | Ave | | 1.8769 | | | | 6.7 | | 15.0 | | | |
| 1,2,3-Trichlorobenzene | 0.7759<br>0.6965 | 0.6685<br>0.7253 | 0.6486<br>0.7221 | 0.7254 | 0.7038 | Ave | | 0.7083 | | | | 5.5 | | 15.0 | | | |
| Dibromofluoromethane (Surr) | 0.6325<br>0.2121 | 0.5228<br>0.2195 | 0.3540<br>0.2246 | 0.2853 | 0.2493 | Lin1 | 0.5057 | 0.2184 | | | | | | | 0.9980 | | 0.9900 |
| 1,2-Dichloroethane-d4 (Surr) | 0.6532<br>0.1843 | 0.5210<br>0.1963 | 0.3468<br>0.2073 | 0.2653 | 0.2284 | Lin1 | 0.5427 | 0.1974 | | | | | | | 0.9950 | | 0.9900 |
| Toluene-d8 (Surr) | 3.2981<br>1.0653 | 2.5215<br>1.0269 | 1.6592<br>1.0698 | 1.3626 | 1.1344 | Lin1 | 2.5691 | 1.0369 | | | | | | | 0.9990 | | 0.9900 |
| 4-Bromofluorobenzene (Surr) | 1.2187<br>0.3366 | 0.8567<br>0.3407 | 0.5913<br>0.3471 | 0.4766 | 0.4047 | Lin1 | 0.9913 | 0.3380 | | | | | | | 0.9980 | | 0.9900 |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 45924

SDG No.:

Instrument ID: A3UX8 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 06/01/2012 04:58 Calibration End Date: 06/01/2012 06:44 Calibration ID: 9095

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STDA9 240-45924/16 | UX88970.D |
| Level 2 | STDA9 240-45924/15 | UX88969.D |
| Level 3 | STDA9 240-45924/14 | UX88968.D |
| Level 4 | STDA9 240-45924/13 | UX88967.D |
| Level 5 | STDA9 240-45924/12 | UX88966.D |
| Level 6 | STDA9 240-45924/11 | UX88965.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1 LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Dichlorofluoromethane | 0.2205 0.1692 | 0.2328 | 0.2356 | 0.2036 | 0.1780 | Ave | | 0.2066 | | | | 14.0 | | 15.0 | | | |
| Ethyl ether | 0.2031 0.2157 | 0.2100 | 0.2087 | 0.2092 | 0.1605 | Ave | | 0.2012 | | | | 10.0 | | 15.0 | | | |
| 3-Chloro-1-propene | 0.1035 0.1109 | 0.0992 | 0.0988 | 0.1000 | 0.1090 | Ave | | 0.1036 | | | | 5.1 | | 15.0 | | | |
| Diisopropyl ether | 0.2048 0.2134 | 0.2111 | 0.2152 | 0.2145 | 0.2149 | Ave | | 0.2123 | | | | 1.9 | | 15.0 | | | |
| 2-Chloro-1,3-butadiene | 0.3288 0.3651 | 0.3299 | 0.3380 | 0.3414 | 0.3525 | Ave | | 0.3426 | | | | 4.1 | | 15.0 | | | |
| Ethyl-t-butyl ether (ETBE) | 0.5823 0.6431 | 0.6101 | 0.6065 | 0.6280 | 0.6316 | Ave | | 0.6169 | | | | 3.5 | | 15.0 | | | |
| Ethyl acetate | 0.1878 0.2251 | 0.1963 | 0.2011 | 0.2038 | 0.1962 | Ave | | 0.2017 | | | | 6.3 | | 15.0 | | | |
| Propionitrile | 0.0310 0.0368 | 0.0360 | 0.0360 | 0.0362 | 0.0343 | Ave | | 0.0351 | | | | 6.1 | | 15.0 | | | |
| Methacrylonitrile | 0.1366 0.1604 | 0.1528 | 0.1515 | 0.1483 | 0.1439 | Ave | | 0.1489 | | | | 5.5 | | 15.0 | | | |
| Isobutyl alcohol | 0.0046 0.0068 | 0.0054 | 0.0065 | 0.0067 | 0.0065 | Ave | | 0.0061 | | | | 14.0 | | 15.0 | | | |
| Tert-amyl-methyl ether (TAME) | 0.4422 0.5210 | 0.4561 | 0.4633 | 0.4969 | 0.5011 | Ave | | 0.4801 | | | | 6.4 | | 15.0 | | | |
| n-Heptane | 0.0492 0.0584 | 0.0551 | 0.0549 | 0.0534 | 0.0555 | Ave | | 0.0544 | | | | 5.6 | | 15.0 | | | |
| n-Butanol | 0.0035 0.0046 | 0.0041 | 0.0044 | 0.0046 | 0.0046 | Ave | | 0.0043 | | | | 11.0 | | 15.0 | | | |
| Ethyl acrylate | 0.2016 0.2952 | 0.2213 | 0.2540 | 0.2592 | 0.2554 | Ave | | 0.2478 | | | | 13.0 | | 15.0 | | | |
| Methyl methacrylate | 0.1765 0.2002 | 0.1806 | 0.1851 | 0.1832 | 0.1827 | Ave | | 0.1847 | | | | 4.4 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 45924

SDG No.:

Instrument ID: A3UX8 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 06/01/2012 04:58 Calibration End Date: 06/01/2012 06:44 Calibration ID: 9095

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 2-Nitropropane | 0.0204<br>0.0368 | 0.0227 | 0.0223 | 0.0249 | 0.0269 | Qua | 0.0941 | 0.0176 | 0 | | | | | | 1.0000 | | 0.9900 |
| 1-Chlorohexane | 0.2889<br>0.3177 | 0.2812 | 0.2912 | 0.2894 | 0.3025 | Ave | | 0.2951 | | | | 4.4 | | 15.0 | | | |
| Cyclohexanone | 0.0272<br>0.0394 | 0.0308 | 0.0348 | 0.0366 | 0.0340 | Ave | | 0.0338 | | | | 13.0 | | 15.0 | | | |
| 1,2,3-Trimethylbenzene | 1.9128<br>2.1903 | 1.9610 | 2.0239 | 2.1377 | 2.2074 | Ave | | 2.0722 | | | | 6.0 | | 15.0 | | | |
| Benzyl chloride | 0.0374<br>0.0978 | 0.0454 | 0.0498 | 0.0631 | 0.0719 | Qua | -0.042 | 0.0486 | 0.0002 | | | | | | 1.0000 | | 0.9900 |
| 2-Methylnaphthalene | 0.8489<br>1.1243 | 0.9067 | 0.9899 | 1.0763 | 1.0994 | Ave | | 1.0076 | | | | 11.0 | | 15.0 | | | |
| n-Butyl acetate | 0.2443<br>0.3241 | 0.2743 | 0.2794 | 0.2996 | 0.2866 | Ave | | 0.2847 | | | | 9.4 | | 15.0 | | | |

Note: The ml coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 45924

SDG No.:

Instrument ID: A3UX8 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 06/01/2012 02:08 Calibration End Date: 06/01/2012 04:37 Calibration ID: 9093

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD8260 240-45924/10 | UX88964.D |
| Level 2 | STD8260 240-45924/9 | UX88963.D |
| Level 3 | STD8260 240-45924/8 | UX88962.D |
| Level 4 | STD8260 240-45924/7 | UX88961.D |
| Level 5 | STD8260 240-45924/6 | UX88960.D |
| Level 6 | STD8260 240-45924/5 | UX88959.D |
| Level 7 | STD8260 240-45924/4 | UX88958.D |
| Level 8 | STD8260 240-45924/3 | UX88957.D |

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
| Dichlorodifluoromethane | FB | Lin1 | 9108<br>271574 | 5685<br>534201 | 28440<br>1062022 | 52502 | 110341 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Chloromethane | FB | Ave | 9876<br>423829 | 14236<br>871723 | 44283<br>1710899 | 86731 | 176826 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Vinyl chloride | FB | Ave | 4702<br>266338 | 6959<br>481416 | 24849<br>1043218 | 54046 | 114472 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Bromomethane | FB | Ave | 3584<br>139522 | 6088 | 16906 | 30452 | 63086 | 1.00<br>50.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Chloroethane | FB | Ave | 2616<br>131496 | 5200<br>237835 | 14046<br>422325 | 25403 | 56128 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Trichlorofluoromethane | FB | Lin1 | 6294<br>331349 | 6935<br>719948 | 33458<br>1317785 | 59598 | 142012 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Acrolein | FB | Ave | 14087<br>873113 | 35576<br>1696048 | 95632<br>3506978 | 169692 | 359387 | 10.0<br>500 | 20.0<br>1000 | 50.0<br>2000 | 100 | 200 |
| 1,1-Dichloroethene | FB | Ave | 5052<br>339209 | 11241<br>690626 | 28534<br>1382777 | 66645 | 133387 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | FB | Lin1 | 2144<br>304694 | 5664<br>622285 | 26016<br>1226152 | 61417 | 119586 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Acetone | FB | Lin1 | 25697<br>306762 | 32956<br>609130 | 48775<br>1224376 | 80506 | 144671 | 2.00<br>100 | 4.00<br>200 | 10.0<br>400 | 20.0 | 40.0 |
| Iodomethane | FB | Ave | 14186<br>736788 | 26477<br>1498810 | 66526<br>2991052 | 148340 | 287729 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Carbon disulfide | FB | Ave | 14419<br>1061284 | 30498<br>2193590 | 85619<br>4465104 | 194841 | 397632 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Acetonitrile | FB | Ave | 15821<br>701646 | 33183<br>1387624 | 72908<br>2842494 | 149535 | 295792 | 10.0<br>500 | 20.0<br>1000 | 50.0<br>2000 | 100 | 200 |
| Methyl acetate | FB | Ave | 14163<br>736124 | 31690<br>1495520 | 72913<br>3230091 | 150629 | 319269 | 2.00<br>100 | 4.00<br>200 | 10.0<br>400 | 20.0 | 40.0 |
| Hexane | FB | Lin1 | +++++<br>94259 | 2023<br>198991 | 7894<br>387300 | 18407 | 36378 | +++++<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 45924

SDG No.:

Instrument ID: A3UX8 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 06/01/2012 02:08 Calibration End Date: 06/01/2012 04:37 Calibration ID: 9093

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
| Methylene Chloride | FB | Lin1 | 36159<br>453908 | 41391<br>890567 | 66637<br>1764779 | 105669 | 195665 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Vinyl acetate | FB | Lin1 | +++++<br>74682 | 1438<br>154594 | 6121<br>322157 | 12689 | 29384 | +++++<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| tert-Butyl alcohol | FB | Ave | 11038<br>696419 | 25271<br>1433760 | 58246<br>2724426 | 130023 | 314846 | 20.0<br>1000 | 40.0<br>2000 | 100<br>4000 | 200 | 400 |
| Acrylonitrile | FB | Ave | 6308<br>384286 | 15339<br>767258 | 36826<br>1614726 | 78310 | 158757 | 2.00<br>100 | 4.00<br>200 | 10.0<br>400 | 20.0 | 40.0 |
| trans-1,2-Dichloroethene | FB | Ave | 6925<br>415151 | 15052<br>847223 | 36579<br>1673396 | 81790 | 163874 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Methyl tert-butyl ether | FB | Ave | 18781<br>969284 | 35054<br>2000407 | 93214<br>3894396 | 191138 | 403818 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 1,1-Dichloroethane | FB | Ave | 11662<br>654267 | 24787<br>1339713 | 60527<br>2728450 | 127414 | 267228 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 2-Butanone | FB | Ave | 10055<br>425819 | 20630<br>861645 | 45564<br>1849297 | 93285 | 191069 | 2.00<br>100 | 4.00<br>200 | 10.0<br>400 | 20.0 | 40.0 |
| cis-1,2-Dichloroethene | FB | Ave | 8563<br>460878 | 16705<br>932690 | 42703<br>1878575 | 90939 | 187299 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 2,2-Dichloropropane | FB | Lin1 | 2782<br>301396 | 7684<br>613539 | 21910<br>1120548 | 50937 | 112566 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Bromochloromethane | FB | Ave | 4905<br>258056 | 9562<br>531388 | 23758<br>1072823 | 49397 | 103872 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Tetrahydrofuran | FB | Ave | 4099<br>148265 | 7833<br>301889 | 15265<br>663413 | 30617 | 64321 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Chloroform | FB | Ave | 12695<br>623227 | 22742<br>1277704 | 56756<br>2583285 | 124256 | 251322 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 1,1,1-Trichloroethane | FB | Ave | 6136<br>494806 | 15221<br>1015879 | 37713<br>2021379 | 91358 | 190692 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Cyclohexane | FB | Lin1 | 8010<br>814974 | 18554<br>1664441 | 67501<br>3251293 | 152422 | 315639 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 1,1-Dichloropropene | FB | Ave | 5851<br>435298 | 13446<br>903800 | 38406<br>1814932 | 84074 | 174624 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Carbon tetrachloride | FB | Lin1 | 4945<br>434277 | 10453<br>903668 | 30628<br>1820984 | 79658 | 162259 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 1,2-Dichloroethane | FB | Ave | 8200<br>440669 | 18798<br>926693 | 42584<br>1885134 | 89729 | 185041 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Benzene | FB | Ave | 27191<br>1412503 | 54901<br>2939589 | 130345<br>6004651 | 283678 | 583020 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 2-Chloroethyl vinyl ether | FB | Qua | +++++<br>85270 | 2382<br>194156 | 7036<br>451128 | 15564 | 34365 | +++++<br>100 | 4.00<br>200 | 10.0<br>400 | 20.0 | 40.0 |
| Trichloroethene | FB | Ave | 7525<br>449270 | 17661<br>946153 | 39927<br>1909294 | 90379 | 186313 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton | Job No.: 240-13043-1 | Analy Batch No.: 45924

SDG No.:

Instrument ID: A3UX8 | GC Column: DB-624 | ID: 0.18(mm) | Heated Purge: (Y/N) Y

Calibration Start Date: 06/01/2012 02:08 | Calibration End Date: 06/01/2012 04:37 | Calibration ID: 9093

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
| Methylcyclohexane | FB | Lin1 | 7107<br>715683 | 13458<br>1483895 | 59012<br>2869404 | 130467 | 280452 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 1,2-Dichloropropane | FB | Ave | 6056<br>363447 | 12976<br>756127 | 33457<br>1533082 | 72646 | 149505 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Dibromomethane | FB | Ave | 3194<br>213386 | 8275<br>443107 | 19663<br>916432 | 40516 | 89460 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 1,4-Dioxane | FB | Ave | 4172<br>180795 | 8770<br>368071 | 17594<br>697561 | 37472 | 86564 | 50.0<br>2500 | 100<br>5000 | 250<br>10000 | 500 | 1000 |
| Bromodichloromethane | FB | Ave | 6759<br>414027 | 13451<br>894124 | 34983<br>1852364 | 75702 | 165138 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| cis-1,3-Dichloropropene | FB | Lin1 | 5337<br>473179 | 14019<br>1028525 | 35162<br>2157060 | 80513 | 187437 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 4-Methyl-2-pentanone | FB | Ave | 13662<br>867614 | 32222<br>1779512 | 79936<br>3762571 | 170224 | 357796 | 2.00<br>100 | 4.00<br>200 | 10.0<br>400 | 20.0 | 40.0 |
| Toluene | CBZ | Ave | 31686<br>1570128 | 56275<br>3290041 | 144291<br>6762236 | 316931 | 651361 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| trans-1,3-Dichloropropene | CBZ | Qua | 5034<br>369638 | 9311<br>834200 | 26481<br>1775483 | 62492 | 142097 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Ethyl methacrylate | CBZ | Lin1 | 4569<br>387014 | 11648<br>828817 | 29752<br>1741136 | 70082 | 160210 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 1,1,2-Trichloroethane | CBZ | Ave | 5287<br>303165 | 12324<br>635835 | 27722<br>1326234 | 61230 | 130181 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 1,3-Dichloropropane | CBZ | Ave | 9420<br>479464 | 19759<br>1003027 | 46017<br>2055884 | 94957 | 206143 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Tetrachloroethene | CBZ | Ave | 4763<br>350330 | 10780<br>738504 | 30312<br>1478437 | 68710 | 145381 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 2-Hexanone | CBZ | Ave | 7613<br>518791 | 20794<br>1033942 | 51181<br>2238530 | 108254 | 222242 | 2.00<br>100 | 4.00<br>200 | 10.0<br>400 | 20.0 | 40.0 |
| Dibromochloromethane | CBZ | Lin1 | 4776<br>369622 | 10221<br>800192 | 26766<br>1696160 | 62959 | 144316 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 1,2-Dibromoethane | CBZ | Ave | 5396<br>326646 | 11350<br>672651 | 28833<br>1410662 | 63121 | 139259 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Chlorobenzene | CBZ | Ave | 22215<br>1110743 | 41545<br>2348663 | 103333<br>4794546 | 222392 | 467607 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 1,1,1,2-Tetrachloroethane | CBZ | Ave | 6387<br>402247 | 11778<br>859564 | 32124<br>1733641 | 70349 | 155216 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Ethylbenzene | CBZ | Ave | 10401<br>582609 | 18955<br>1218669 | 50904<br>2455422 | 114626 | 239972 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| m-Xylene & p-Xylene | CBZ | Ave | 24716<br>1433330 | 50947<br>2970365 | 127685<br>5996569 | 283038 | 587032 | 2.00<br>100 | 4.00<br>200 | 10.0<br>400 | 20.0 | 40.0 |
| o-Xylene | CBZ | Ave | 11925<br>735775 | 27658<br>1523019 | 66377<br>3016745 | 140369 | 303175 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 45924

SDG No.:

Instrument ID: A3UX8 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 06/01/2012 02:08 Calibration End Date: 06/01/2012 04:37 Calibration ID: 9093

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
| Styrene | CBZ | Ave | 19441<br>1167139 | 37345<br>2470720 | 99706<br>5004285 | 221199 | 470752 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Bromoform | CBZ | Qua | 2972<br>215747 | 4987<br>492715 | 14804<br>1065568 | 36999 | 83185 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Isopropylbenzene | CBZ | Ave | 27734<br>1841815 | 60701<br>3902037 | 153312<br>7707346 | 363962 | 757473 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 1,1,2,2-Tetrachloroethane | DCB | Ave | 6406<br>388047 | 14832<br>806160 | 35211<br>1621761 | 75508 | 165736 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Bromobenzene | DCB | Ave | 9375<br>493271 | 18655<br>1041301 | 46224<br>2062789 | 98684 | 207384 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 1,2,3-Trichloropropane | DCB | Ave | 2351<br>132030 | 5421<br>274509 | 13160<br>566504 | 28259 | 59908 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| trans-1,4-Dichloro-2-butene | DCB | Ave | 2013<br>101980 | 3336<br>216935 | 8658<br>478098 | 20206 | 43635 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| n-Propylbenzene | DCB | Ave | 7081<br>510968 | 16529<br>1078336 | 43313<br>2098648 | 102551 | 214428 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 2-Chlorotoluene | DCB | Ave | 8085<br>460662 | 17170<br>972858 | 41474<br>1877551 | 91889 | 194452 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 1,3,5-Trimethylbenzene | DCB | Ave | 23624<br>1504667 | 47613<br>3200891 | 127117<br>6173317 | 292939 | 608516 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 4-Chlorotoluene | DCB | Ave | 8254<br>460326 | 15369<br>970519 | 41025<br>1899750 | 92528 | 193536 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| tert-Butylbenzene | DCB | Ave | 21582<br>1408870 | 50121<br>3025424 | 116905<br>6434827 | 281880 | 581311 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 1,2,4-Trimethylbenzene | DCB | Ave | 25470<br>1465623 | 49454<br>3171085 | 129321<br>6139136 | 298634 | 611082 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 1,2-Dibromo-3-Chloropropane | DCB | Qua | +++++<br>81624 | 2444<br>178464 | 5595<br>388518 | 15063 | 31299 | +++++<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| sec-Butylbenzene | DCB | Ave | 27546<br>1904469 | 59613<br>4092669 | 163266<br>8001318 | 387736 | 792978 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 1,3-Dichlorobenzene | DCB | Ave | 17864<br>908246 | 35061<br>1959832 | 87973<br>3768664 | 194645 | 385479 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| p-Isopropyltoluene | DCB | Ave | 21692<br>1602135 | 48285<br>3496868 | 138002<br>6734779 | 324528 | 661573 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 1,4-Dichlorobenzene | DCB | Ave | 20549<br>909278 | 36883<br>1967866 | 89111<br>3852872 | 194238 | 392689 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| n-Butylbenzene | DCB | Ave | 18443<br>1250620 | 38262<br>2765364 | 106344<br>5248217 | 248589 | 518113 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 1,2-Dichlorobenzene | DCB | Ave | 18033<br>883420 | 35041<br>1899991 | 89500<br>3619878 | 186922 | 384094 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 1,3,5-Trichlorobenzene | DCB | Ave | 11325<br>599660 | 21188<br>1356408 | 58055<br>2554015 | 127986 | 254958 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton  Job No.: 240-13043-1  Analy Batch No.: 45924

SDG No.:

Instrument ID: A3UX8  GC Column: DB-624  ID: 0.18(mm)  Heated Purge: (Y/N) Y

Calibration Start Date: 06/01/2012 02:08  Calibration End Date: 06/01/2012 04:37  Calibration ID: 9093

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
| 1,2,4-Trichlorobenzene | DCB | Ave | 10053<br>521009 | 19260<br>1172663 | 51163<br>2209295 | 111150 | 221744 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Hexachlorobutadiene | DCB | Ave | 4658<br>241023 | 8345<br>552930 | 22270<br>1022970 | 52865 | 104449 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Naphthalene | DCB | Ave | 25728<br>1350857 | 48664<br>2938856 | 122970<br>5778881 | 274148 | 569323 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 1,2,3-Trichlorobenzene | DCB | Ave | 10662<br>486573 | 19170<br>1067895 | 47301<br>2055547 | 105993 | 208282 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Dibromofluoromethane (Surr) | FB | Linl | 21220<br>379185 | 36802<br>797947 | 61122<br>1619190 | 101557 | 183475 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 1,2-Dichloroethane-d4 (Surr) | FB | Linl | 21913<br>329488 | 36681<br>713697 | 59867<br>1493976 | 94430 | 168065 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| Toluene-d8 (Surr) | CBZ | Linl | 82819<br>1398283 | 131395<br>2819735 | 213564<br>5725255 | 359316 | 619096 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |
| 4-Bromofluorobenzene (Surr) | CBZ | Linl | 30604<br>441779 | 44643<br>935627 | 76114<br>1857563 | 125664 | 220857 | 1.00<br>50.0 | 2.00<br>100 | 5.00<br>200 | 10.0 | 20.0 |

Curve Type Legend:

Ave = Average ISTD
Linl = Linear 1/conc ISTD
Qua = Quadratic ISTD

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 45924

SDG No.:

Instrument ID: A3UX8 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 06/01/2012 04:58 Calibration End Date: 06/01/2012 06:44 Calibration ID: 9095

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STDA9 240-45924/16 | UX88970.D |
| Level 2 | STDA9 240-45924/15 | UX88969.D |
| Level 3 | STDA9 240-45924/14 | UX88968.D |
| Level 4 | STDA9 240-45924/13 | UX88967.D |
| Level 5 | STDA9 240-45924/12 | UX88966.D |
| Level 6 | STDA9 240-45924/11 | UX88965.D |

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Dichlorofluoromethane | FB | Ave | 37277<br>1120053 | 80793 | 165582 | 347123 | 602287 | 5.00<br>200 | 10.0 | 20.0 | 50.0 | 100 |
| Ethyl ether | FB | Ave | 34329<br>1428098 | 72895 | 146633 | 356680 | 542952 | 5.00<br>200 | 10.0 | 20.0 | 50.0 | 100 |
| 3-Chloro-1-propene | FB | Ave | 17491<br>734230 | 34436 | 69456 | 170427 | 368696 | 5.00<br>200 | 10.0 | 20.0 | 50.0 | 100 |
| Diisopropyl ether | FB | Ave | 173090<br>7063746 | 366295 | 756234 | 1828805 | 3635752 | 25.0<br>1000 | 50.0 | 100 | 250 | 500 |
| 2-Chloro-1,3-butadiene | FB | Ave | 55588<br>2417692 | 114473 | 237514 | 582021 | 1192625 | 5.00<br>200 | 10.0 | 20.0 | 50.0 | 100 |
| Ethyl-t-butyl ether (ETBE) | FB | Ave | 98431<br>4258542 | 211744 | 426187 | 1070587 | 2137152 | 5.00<br>200 | 10.0 | 20.0 | 50.0 | 100 |
| Ethyl acetate | FB | Ave | 63499<br>2981509 | 136275 | 282597 | 694974 | 1328128 | 10.0<br>400 | 20.0 | 40.0 | 100 | 200 |
| Propionitrile | FB | Ave | 10494<br>486820 | 25004 | 50653 | 123273 | 232275 | 10.0<br>400 | 20.0 | 40.0 | 100 | 200 |
| Methacrylonitrile | FB | Ave | 23086<br>1061937 | 53020 | 106424 | 252743 | 486871 | 5.00<br>200 | 10.0 | 20.0 | 50.0 | 100 |
| Isobutyl alcohol | FB | Ave | 15592<br>900817 | 37612 | 90690 | 228639 | 441057 | 100<br>4000 | 200 | 400 | 1000 | 2000 |
| Tert-amyl-methyl ether (TAME) | FB | Ave | 74753<br>3449637 | 158279 | 325530 | 847170 | 1695652 | 5.00<br>200 | 10.0 | 20.0 | 50.0 | 100 |
| n-Heptane | FB | Ave | 8309<br>386475 | 19108 | 38568 | 90994 | 187863 | 5.00<br>200 | 10.0 | 20.0 | 50.0 | 100 |
| n-Butanol | FB | Ave | 11705<br>611676 | 28129 | 61650 | 157159 | 309661 | 100<br>4000 | 200 | 400 | 1000 | 2000 |
| Ethyl acrylate | FB | Ave | 34083<br>1954471 | 76805 | 178448 | 441972 | 864151 | 5.00<br>200 | 10.0 | 20.0 | 50.0 | 100 |
| Methyl methacrylate | FB | Ave | 29841<br>1325426 | 62677 | 130062 | 312371 | 618354 | 5.00<br>200 | 10.0 | 20.0 | 50.0 | 100 |
| 2-Nitropropane | FB | Qua | 6893<br>487251 | 15741 | 31365 | 84984 | 182170 | 10.0<br>400 | 20.0 | 40.0 | 100 | 200 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 45924

SDG No.:

Instrument ID: A3UX8 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 06/01/2012 04:58 Calibration End Date: 06/01/2012 06:44 Calibration ID: 9095

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| 1-Chlorohexane | CBZ | Ave | 36578<br>1582962 | 73482 | 151587 | 367280 | 760767 | 5.00<br>200 | 10.0 | 20.0 | 50.0 | 100 |
| Cyclohexanone | CBZ | Ave | 34492<br>1962787 | 80421 | 180998 | 464494 | 854500 | 50.0<br>2000 | 100 | 200 | 500 | 1000 |
| 1,2,3-Trimethylbenzene | DCB | Ave | 132998<br>6082779 | 273487 | 581705 | 1498829 | 3002187 | 5.00<br>200 | 10.0 | 20.0 | 50.0 | 100 |
| Benzyl chloride | DCB | Qua | 2603<br>271592 | 6330 | 14322 | 44211 | 97812 | 5.00<br>200 | 10.0 | 20.0 | 50.0 | 100 |
| 2-Methylnaphthalene | DCB | Ave | 118048<br>6244906 | 252906 | 569038 | 1509276 | 2990535 | 10.0<br>400 | 20.0 | 40.0 | 100 | 200 |
| n-Butyl acetate | FB | Ave | 82603<br>4292074 | 190393 | 392640 | 1021596 | 1939615 | 10.0<br>400 | 20.0 | 40.0 | 100 | 200 |

Curve Type Legend:
Ave = Average ISTD
Qua = Quadratic ISTD

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Lab Sample ID: ICV 240-45924/17 Calibration Date: 06/01/2012 07:05

Instrument ID: A3UX8 Calib Start Date: 06/01/2012 02:08

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/01/2012 04:37

Lab File ID: UX88971.D Conc. Units: ug/L Heated Purge: (Y/N) Y

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | Lin1 | | 0.1510 | | 25.3 | 25.0 | 1.2 | 50.0 |
| Chloromethane | Ave | 0.2439 | 0.2671 | 0.1000 | 27.4 | 25.0 | 9.5 | 50.0 |
| Vinyl chloride | Ave | 0.1396 | 0.1527 | | 27.4 | 25.0 | 9.4 | 20.0 |
| Bromomethane | Ave | 0.0901 | 0.1029 | | 28.6 | 25.0 | 14.2 | 50.0 |
| Chloroethane | Ave | 0.0723 | 0.0934 | | 32.3 | 25.0 | 29.2 | 50.0 |
| Trichlorofluoromethane | Lin1 | | 0.2150 | | 28.9 | 25.0 | 15.6 | 50.0 |
| Acrolein | Ave | 0.0486 | 0.0250 | | 38.6 | 75.0 | -48.5 | 50.0 |
| 1,1-Dichloroethene | Ave | 0.1769 | 0.1938 | | 27.4 | 25.0 | 9.5 | 20.0 |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | Lin1 | | 0.1731 | | 25.9 | 25.0 | 3.6 | 50.0 |
| Acetone | Lin1 | | 0.0893 | | 47.0 | 50.0 | -6.0 | 50.0 |
| Iodomethane | Ave | 0.4039 | 0.4325 | | 26.8 | 25.0 | 7.1 | 50.0 |
| Carbon disulfide | Ave | 0.5329 | 0.5416 | | 25.4 | 25.0 | 1.6 | 50.0 |
| Acetonitrile | Ave | 0.0419 | 0.0435 | | 77.7 | 75.0 | 3.7 | 50.0 |
| Methyl acetate | Ave | 0.2139 | 0.2353 | | 27.5 | 25.0 | 10.0 | 50.0 |
| Methylene Chloride | Lin1 | | 0.2734 | | 25.4 | 25.0 | 1.6 | 50.0 |
| tert-Butyl alcohol | Ave | 0.0186 | 0.0170 | | 457 | 500 | -8.6 | 50.0 |
| Acrylonitrile | Ave | 0.1066 | 0.1124 | | 79.1 | 75.0 | 5.5 | 50.0 |
| Methyl tert-butyl ether | Ave | 0.5395 | 0.5680 | | 26.3 | 25.0 | 5.3 | 50.0 |
| trans-1,2-Dichloroethene | Ave | 0.2227 | 0.2312 | | 26.0 | 25.0 | 3.8 | 50.0 |
| Hexane | Lin1 | | 0.0546 | | 26.1 | 25.0 | 4.4 | 20.0 |
| 1,1-Dichloroethane | Ave | 0.3605 | 0.3837 | 0.1000 | 26.6 | 25.0 | 6.4 | 50.0 |
| Vinyl acetate | Lin1 | | 0.0343 | | 20.7 | 25.0 | -17.2 | 50.0 |
| 2-Butanone | Ave | 0.1319 | 0.1266 | | 48.0 | 50.0 | -4.0 | 50.0 |
| cis-1,2-Dichloroethene | Ave | 0.2531 | 0.2610 | | 25.8 | 25.0 | 3.1 | 50.0 |
| 2,2-Dichloropropane | Lin1 | | 0.1369 | | 21.8 | 25.0 | -12.8 | 50.0 |
| Bromochloromethane | Ave | 0.1424 | 0.1503 | | 26.4 | 25.0 | 5.6 | 50.0 |
| Tetrahydrofuran | Ave | 0.0942 | 0.0880 | | 23.4 | 25.0 | -6.5 | 50.0 |
| Chloroform | Ave | 0.3474 | 0.3490 | | 25.1 | 25.0 | 0.5 | 20.0 |
| 1,1,1-Trichloroethane | Ave | 0.2462 | 0.2467 | | 25.0 | 25.0 | 0.2 | 50.0 |
| Cyclohexane | Lin1 | | 0.4224 | | 23.8 | 25.0 | -4.8 | 50.0 |
| 1,1-Dichloropropene | Ave | 0.2256 | 0.2368 | | 26.2 | 25.0 | 4.9 | 50.0 |
| Carbon tetrachloride | Lin1 | | 0.1955 | | 20.3 | 25.0 | -18.8 | 50.0 |
| 1,2-Dichloroethane | Ave | 0.2531 | 0.2662 | | 26.3 | 25.0 | 5.2 | 50.0 |
| Benzene | Ave | 0.7958 | 0.8020 | | 25.2 | 25.0 | 0.8 | 50.0 |
| Trichloroethene | Ave | 0.2487 | 0.2426 | | 24.4 | 25.0 | -2.5 | 50.0 |
| Methylcyclohexane | Lin1 | | 0.3636 | | 23.3 | 25.0 | -6.8 | 50.0 |
| 1,2-Dichloropropane | Ave | 0.1987 | 0.2063 | | 26.0 | 25.0 | 3.8 | 20.0 |
| Dibromomethane | Ave | 0.1163 | 0.1257 | | 27.0 | 25.0 | 8.1 | 50.0 |
| Bromodichloromethane | Ave | 0.2208 | 0.2207 | | 25.0 | 25.0 | -0.0 | 50.0 |
| 2-Chloroethyl vinyl ether | Qua | | 0.0196 | | 22.4 | 25.0 | -10.4 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Lab Sample ID: ICV 240-45924/17  Calibration Date: 06/01/2012 07:05

Instrument ID: A3UX8  Calib Start Date: 06/01/2012 02:08

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 06/01/2012 04:37

Lab File ID: UX88971.D  Conc. Units: ug/L  Heated Purge: (Y/N) Y

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | Lin1 | | 0.2314 | | 20.8 | 25.0 | -16.8 | 50.0 |
| 4-Methyl-2-pentanone | Ave | 0.2368 | 0.2528 | | 53.4 | 50.0 | 6.7 | 50.0 |
| Toluene | Ave | 1.190 | 1.146 | | 24.1 | 25.0 | -3.7 | 20.0 |
| trans-1,3-Dichloropropene | Qua | | 0.2258 | | 21.0 | 25.0 | -16.0 | 50.0 |
| 1,1,2-Trichloroethane | Ave | 0.2304 | 0.2425 | | 26.3 | 25.0 | 5.2 | 50.0 |
| 1,3-Dichloropropane | Ave | 0.3705 | 0.3826 | | 25.8 | 25.0 | 3.2 | 50.0 |
| Tetrachloroethene | Ave | 0.2464 | 0.2403 | | 24.4 | 25.0 | -2.5 | 50.0 |
| 2-Hexanone | Ave | 0.1942 | 0.1975 | | 50.8 | 50.0 | 1.7 | 50.0 |
| Dibromochloromethane | Lin1 | | 0.2397 | | 20.5 | 25.0 | -18.0 | 50.0 |
| 1,2-Dibromoethane | Ave | 0.2386 | 0.2360 | | 24.7 | 25.0 | -1.1 | 50.0 |
| Chlorobenzene | Ave | 0.8478 | 0.8289 | 0.3000 | 24.4 | 25.0 | -2.2 | 50.0 |
| 1,1,1,2-Tetrachloroethane | Ave | 0.2781 | 0.2610 | | 23.5 | 25.0 | -6.1 | 50.0 |
| Ethylbenzene | Ave | 0.4243 | 0.4105 | | 24.2 | 25.0 | -3.2 | 20.0 |
| m-Xylene & p-Xylene | Ave | 0.5248 | 0.5136 | | 48.9 | 50.0 | -2.1 | 50.0 |
| o-Xylene | Ave | 0.5360 | 0.5395 | | 25.2 | 25.0 | 0.6 | 50.0 |
| Styrene | Ave | 0.8364 | 0.8561 | | 25.6 | 25.0 | 2.4 | 50.0 |
| Bromoform | Qua | | 0.1345 | 0.1000 | 21.5 | 25.0 | -14.0 | 50.0 |
| Isopropylbenzene | Ave | 1.312 | 1.311 | | 25.0 | 25.0 | -0.0 | 50.0 |
| 1,1,2,2-Tetrachloroethane | Ave | 0.5270 | 0.5435 | 0.3000 | 25.8 | 25.0 | 3.1 | 50.0 |
| Bromobenzene | Ave | 0.6851 | 0.7144 | | 26.1 | 25.0 | 4.3 | 50.0 |
| 1,2,3-Trichloropropane | Ave | 0.1889 | 0.1996 | | 26.4 | 25.0 | 5.7 | 50.0 |
| trans-1,4-Dichloro-2-butene | Ave | 0.1411 | 0.1386 | | 49.1 | 50.0 | -1.8 | 50.0 |
| n-Propylbenzene | Ave | 0.6641 | 0.6939 | | 26.1 | 25.0 | 4.5 | 50.0 |
| 2-Chlorotoluene | Ave | 0.6277 | 0.6274 | | 25.0 | 25.0 | -0.0 | 50.0 |
| 1,3,5-Trimethylbenzene | Ave | 1.960 | 1.974 | | 25.2 | 25.0 | 0.7 | 50.0 |
| 4-Chlorotoluene | Ave | 0.6215 | 0.6144 | | 24.7 | 25.0 | -1.1 | 50.0 |
| tert-Butylbenzene | Ave | 1.893 | 1.870 | | 24.7 | 25.0 | -1.2 | 50.0 |
| 1,2,4-Trimethylbenzene | Ave | 1.984 | 2.007 | | 25.3 | 25.0 | 1.2 | 50.0 |
| sec-Butylbenzene | Ave | 2.496 | 2.515 | | 25.2 | 25.0 | 0.7 | 50.0 |
| 1,3-Dichlorobenzene | Ave | 1.290 | 1.243 | | 24.1 | 25.0 | -3.6 | 50.0 |
| p-Isopropyltoluene | Ave | 2.081 | 2.138 | | 25.7 | 25.0 | 2.8 | 50.0 |
| 1,4-Dichlorobenzene | Ave | 1.331 | 1.221 | | 22.9 | 25.0 | -8.3 | 50.0 |
| n-Butylbenzene | Ave | 1.637 | 1.577 | | 24.1 | 25.0 | -3.7 | 50.0 |
| 1,2-Dichlorobenzene | Ave | 1.271 | 1.240 | | 24.4 | 25.0 | -2.4 | 50.0 |
| 1,2-Dibromo-3-Chloropropane | Qua | | 0.0902 | | 20.9 | 25.0 | -16.4 | 50.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.7416 | 0.6162 | | 20.8 | 25.0 | -16.9 | 50.0 |
| Hexachlorobutadiene | Ave | 0.3413 | 0.2944 | | 21.6 | 25.0 | -13.7 | 50.0 |
| Naphthalene | Ave | 1.877 | 1.700 | | 22.6 | 25.0 | -9.4 | 50.0 |
| 1,2,3-Trichlorobenzene | Ave | 0.7083 | 0.6258 | | 22.1 | 25.0 | -11.6 | 50.0 |
| Dibromofluoromethane (Surr) | Lin1 | | 0.2116 | | 46.1 | 50.0 | -7.8 | 50.0 |
| 1,2-Dichloroethane-d4 (Surr) | Lin1 | | 0.1847 | | 44.0 | 50.0 | -12.0 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Lab Sample ID: ICV 240-45924/17 Calibration Date: 06/01/2012 07:05

Instrument ID: A3UX8 Calib Start Date: 06/01/2012 02:08

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/01/2012 04:37

Lab File ID: UX88971.D Conc. Units: ug/L Heated Purge: (Y/N) Y

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Toluene-d8 (Surr) | Lin1 | | 1.018 | | 46.6 | 50.0 | -6.8 | 50.0 |
| 4-Bromofluorobenzene (Surr) | Lin1 | | 0.3308 | | 46.0 | 50.0 | -8.0 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Lab Sample ID: ICV 240-45924/17  Calibration Date: 06/01/2012 07:05

Instrument ID: A3UX8  Calib Start Date: 06/01/2012 04:58

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 06/01/2012 06:44

Lab File ID: UX88971.D  Conc. Units: ug/L  Heated Purge: (Y/N) Y

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Ethyl ether | Ave | 0.2012 | 0.2327 | | 28.9 | 25.0 | 15.7 | 50.0 |
| Diisopropyl ether | Ave | 0.2123 | 0.2116 | | 24.9 | 25.0 | -0.3 | 50.0 |
| Isobutyl alcohol | Ave | 0.0061 | 0.0077 | | 1590 | 1250 | 26.8 | 50.0 |
| Cyclohexanone | Ave | 0.0338 | 0.0095 | | 140 | 500 | -72.0* | 50.0 |
| 1,2,3-Trimethylbenzene | Ave | 2.072 | 2.066 | | 24.9 | 25.0 | -0.3 | 50.0 |

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Lab File ID: BFB8020.D  BFB Injection Date: 07/11/2012

Instrument ID: A3UX8  BFB Injection Time: 22:55

Analysis Batch No.: 50546

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 50 | 15.0 - 40.0 % of mass 95 | 19.4 | |
| 75 | 30.0 - 60.0 % of mass 95 | 39.1 | |
| 95 | Base Peak, 100% relative abundance | 100.0 | |
| 96 | 5.0 - 9.0 % of mass 95 | 6.3 | |
| 173 | Less than 2.0 % of mass 174 | 0.8 | (0.8)1 |
| 174 | 50.0 - 120.00 % of mass 95 | 99.3 | |
| 175 | 5.0 - 9.0 % of mass 174 | 7.0 | (7.1)1 |
| 176 | 95.0 - 101.0 % of mass 174 | 95.3 | (96.0)1 |
| 177 | 5.0 - 9.0 % of mass 176 | 6.5 | (6.8)2 |

1-Value is % mass 174  2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | CCV 240-50546/4 | UX89754.D | 07/11/2012 | 23:59 |
| | CCVIS 240-50546/5 | UX89755.D | 07/12/2012 | 00:20 |
| | LCS 240-50546/6 | UX89756.D | 07/12/2012 | 00:41 |
| | MB 240-50546/7 | UX89757.D | 07/12/2012 | 01:02 |
| MT-SS19-8-10 | 240-13043-3 | UX89758.D | 07/12/2012 | 01:53 |
| MT-SS20-0-2 | 240-13043-4 | UX89759.D | 07/12/2012 | 02:14 |
| MT-SS20-8-10 | 240-13043-5 | UX89760.D | 07/12/2012 | 02:35 |
| MT-SS21-0-2 | 240-13043-6 | UX89761.D | 07/12/2012 | 02:57 |
| MT-SS21-8-10 | 240-13043-7 | UX89762.D | 07/12/2012 | 03:18 |
| MT-SS19-0-2 | 240-13043-2 | UX89763.D | 07/12/2012 | 03:39 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Lab Sample ID: CCV 240-50546/4 Calibration Date: 07/11/2012 23:59

Instrument ID: A3UX8 Calib Start Date: 06/01/2012 04:58

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/01/2012 06:44

Lab File ID: UX89754.D Conc. Units: ug/L Heated Purge: (Y/N) Y

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorofluoromethane | Ave | 0.2066 | 0.1670 | | 16.2 | 20.0 | -19.2 | 50.0 |
| Ethyl ether | Ave | 0.2012 | 0.1972 | | 19.6 | 20.0 | -2.0 | 50.0 |
| 3-Chloro-1-propene | Ave | 0.1036 | 0.0967 | | 18.7 | 20.0 | -6.7 | 50.0 |
| Diisopropyl ether | Ave | 0.2123 | 0.1940 | | 91.4 | 100 | -8.6 | 50.0 |
| 2-Chloro-1,3-butadiene | Ave | 0.3426 | 0.3307 | | 19.3 | 20.0 | -3.5 | 50.0 |
| Ethyl-t-butyl ether (ETBE) | Ave | 0.6169 | 0.5633 | | 18.3 | 20.0 | -8.7 | 50.0 |
| ~~Ethyl acetate~~ | Ave | 0.2017 | 0.2459 | | 48.8 | 40.0 | ~~21.9~~ | 50.0 |
| ~~Propionitrile~~ | Ave | 0.0351 | ~~0.0396~~ | | 45.2 | 40.0 | 12.9 | 50.0 |
| Methacrylonitrile | Ave | 0.1489 | 0.1624 | | 21.8 | 20.0 | 9.1 | 50.0 |
| Isobutyl ~~alcohol~~ | Ave | 0.0061 | ~~0.0084~~ | | 553 | 400 | ~~38.4~~ | 50.0 |
| Tert-amyl-methyl ether (TAME) | Ave | 0.4801 | 0.4390 | | 18.3 | 20.0 | -8.6 | 50.0 |
| n-Heptane | Ave | 0.0544 | 0.0590 | | 21.7 | 20.0 | 8.4 | 50.0 |
| ~~n-Butanol~~ | Ave | 0.0043 | ~~0.0063~~ | | 589 | 400 | ~~47.3~~ | 50.0 |
| Methyl methacrylate | Ave | 0.1847 | 0.2077 | | 22.5 | 20.0 | 12.4 | 50.0 |
| ~~2-Nitropropane~~ | Qua | | ~~0.0443~~ | | 78.7 | 40.0 | ~~96.8~~* | 50.0 |
| ~~Cyclohexanone~~ | Ave | 0.0338 | ~~0.0424~~ | | 251 | 200 | ~~25.5~~ | 50.0 |
| 1,2,3-Trimethylbenzene | Ave | 2.072 | 2.072 | | 20.0 | 20.0 | 0.0 | 50.0 |
| 2-Methylnaphthalene | Ave | 1.008 | 0.8308 | | 33.0 | 40.0 | -17.5 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Lab Sample ID: CCVIS 240-50546/5  Calibration Date: 07/12/2012 00:20

Instrument ID: A3UX8  Calib Start Date: 06/01/2012 02:08

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 06/01/2012 04:37

Lab File ID: UX89755.D  Conc. Units: ug/L  Heated Purge: (Y/N) Y

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | Lin1 | | 0.1819 | | 24.4 | 20.0 | 22.0 | 50.0 |
| Chloromethane | Ave | 0.2439 | 0.2021 | 0.1000 | 16.6 | 20.0 | -17.1 | 50.0 |
| Vinyl chloride | Ave | 0.1396 | 0.1254 | | 18.0 | 20.0 | -10.1 | 20.0 |
| Bromomethane | Ave | 0.0901 | 0.0886 | | 19.7 | 20.0 | -1.7 | 50.0 |
| Chloroethane | Ave | 0.0723 | 0.0788 | | 21.8 | 20.0 | 9.0 | 50.0 |
| Trichlorofluoromethane | Lin1 | | 0.2194 | | 23.6 | 20.0 | 18.0 | 50.0 |
| ~~Acrolein~~ | Ave | ~~0.0486~~ | ~~0.0316~~ | | 130 | 200 | ~~-34.9~~ | 50.0 |
| 1,1-Dichloroethene | Ave | 0.1769 | 0.2073 | | 23.4 | 20.0 | 17.1 | 20.0 |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | Lin1 | | 0.1860 | | 22.4 | 20.0 | 12.0 | 50.0 |
| Acetone | Lin1 | | 0.1096 | | 46.0 | 40.0 | 15.0 | 50.0 |
| Iodomethane | Ave | 0.4039 | 0.4371 | | 21.6 | 20.0 | 8.2 | 50.0 |
| Carbon disulfide | Ave | 0.5329 | 0.6048 | | 22.7 | 20.0 | 13.5 | 50.0 |
| ~~Acetonitrile~~ | Ave | 0.0419 | ~~0.0425~~ | | 203 | 200 | 1.3 | 50.0 |
| Methyl acetate | Ave | 0.2139 | 0.2492 | | 46.6 | 40.0 | 16.5 | 50.0 |
| Methylene Chloride | Lin1 | | 0.3447 | | 25.7 | 20.0 | 28.5 | 50.0 |
| tert-Butyl alcohol | Ave | 0.0186 | 0.0204 | | 438 | 400 | 9.5 | 50.0 |
| Acrylonitrile | Ave | 0.1066 | 0.1142 | | 42.9 | 40.0 | 7.2 | 50.0 |
| trans-1,2-Dichloroethene | Ave | 0.2227 | 0.2524 | | 22.7 | 20.0 | 13.3 | 50.0 |
| Methyl tert-butyl ether | Ave | 0.5395 | 0.5721 | | 21.2 | 20.0 | 6.0 | 50.0 |
| Hexane | Lin1 | | 0.0612 | | 23.5 | 20.0 | 17.5 | 20.0 |
| 1,1-Dichloroethane | Ave | 0.3605 | 0.3912 | 0.1000 | 21.7 | 20.0 | 8.5 | 50.0 |
| Vinyl acetate | Lin1 | | 0.0305 | | 15.1 | 20.0 | -24.5 | 50.0 |
| 2-Butanone | Ave | 0.1319 | 0.1424 | | 43.2 | 40.0 | 8.0 | 50.0 |
| cis-1,2-Dichloroethene | Ave | 0.2531 | 0.2799 | | 22.1 | 20.0 | 10.6 | 50.0 |
| 2,2-Dichloropropane | Lin1 | | 0.1570 | | 20.1 | 20.0 | 0.5 | 50.0 |
| Bromochloromethane | Ave | 0.1424 | 0.1536 | | 21.6 | 20.0 | 7.9 | 50.0 |
| Tetrahydrofuran | Ave | 0.0942 | 0.0971 | | 20.6 | 20.0 | 3.1 | 50.0 |
| Chloroform | Ave | 0.3474 | 0.3732 | | 21.5 | 20.0 | 7.4 | 20.0 |
| 1,1,1-Trichloroethane | Ave | 0.2462 | 0.2957 | | 24.0 | 20.0 | 20.1 | 50.0 |
| Cyclohexane | Lin1 | | 0.4759 | | 21.5 | 20.0 | 7.5 | 50.0 |
| 1,1-Dichloropropene | Ave | 0.2256 | 0.2734 | | 24.2 | 20.0 | 21.2 | 50.0 |
| Carbon tetrachloride | Lin1 | | 0.2727 | | 22.5 | 20.0 | 12.5 | 50.0 |
| 1,2-Dichloroethane | Ave | 0.2531 | 0.2683 | | 21.2 | 20.0 | 6.0 | 50.0 |
| Benzene | Ave | 0.7958 | 0.8623 | | 21.7 | 20.0 | 8.4 | 50.0 |
| Trichloroethene | Ave | 0.2487 | 0.2871 | | 23.1 | 20.0 | 15.4 | 50.0 |
| Methylcyclohexane | Lin1 | | 0.4273 | | 21.9 | 20.0 | 9.5 | 50.0 |
| 1,2-Dichloropropane | Ave | 0.1987 | 0.2210 | | 22.2 | 20.0 | 11.2 | 20.0 |
| ~~1,4-Dioxane~~ | Ave | 0.0022 | ~~0.0025~~ | | 1140 | 1000 | 14.2 | 50.0 |
| Dibromomethane | Ave | 0.1163 | 0.1319 | | 22.7 | 20.0 | 13.4 | 50.0 |
| Bromodichloromethane | Ave | 0.2208 | 0.2516 | | 22.8 | 20.0 | 13.9 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Lab Sample ID: CCVIS 240-50546/5  Calibration Date: 07/12/2012 00:20

Instrument ID: A3UX8  Calib Start Date: 06/01/2012 02:08

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 06/01/2012 04:37

Lab File ID: UX89755.D  Conc. Units: ug/L  Heated Purge: (Y/N) Y

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 2-Chloroethyl vinyl ether | Qua | | 0.0358 | | 61.6 | 40.0 | 54.0* | 50.0 |
| cis-1,3-Dichloropropene | Lin1 | | 0.2832 | | 20.4 | 20.0 | 2.0 | 50.0 |
| 4-Methyl-2-pentanone | Ave | 0.2368 | 0.2763 | | 46.7 | 40.0 | 16.7 | 50.0 |
| Toluene | Ave | 1.190 | 1.305 | | 21.9 | 20.0 | 9.7 | 20.0 |
| trans-1,3-Dichloropropene | Qua | | 0.2720 | | 20.3 | 20.0 | 1.5 | 50.0 |
| Ethyl methacrylate | Lin1 | | 0.3013 | | 19.8 | 20.0 | -1.0 | 50.0 |
| 1,1,2-Trichloroethane | Ave | 0.2304 | 0.2570 | | 22.3 | 20.0 | 11.5 | 50.0 |
| 1,3-Dichloropropane | Ave | 0.3705 | 0.3910 | | 21.1 | 20.0 | 5.5 | 50.0 |
| Tetrachloroethene | Ave | 0.2464 | 0.2984 | | 24.2 | 20.0 | 21.1 | 50.0 |
| 2-Hexanone | Ave | 0.1942 | 0.2295 | | 47.3 | 40.0 | 18.1 | 50.0 |
| Dibromochloromethane | Lin1 | | 0.2910 | | 19.9 | 20.0 | -0.5 | 50.0 |
| 1,2-Dibromoethane | Ave | 0.2386 | 0.2655 | | 22.3 | 20.0 | 11.3 | 50.0 |
| Chlorobenzene | Ave | 0.8478 | 0.9325 | 0.3000 | 22.0 | 20.0 | 10.0 | 50.0 |
| 1,1,1,2-Tetrachloroethane | Ave | 0.2781 | 0.3064 | | 22.0 | 20.0 | 10.2 | 50.0 |
| Ethylbenzene | Ave | 0.4243 | 0.4860 | | 22.9 | 20.0 | 14.5 | 20.0 |
| m-Xylene & p-Xylene | Ave | 0.5248 | 0.5993 | | 45.7 | 40.0 | 14.2 | 50.0 |
| o-Xylene | Ave | 0.5360 | 0.5877 | | 21.9 | 20.0 | 9.6 | 50.0 |
| Styrene | Ave | 0.8364 | 0.9272 | | 22.2 | 20.0 | 10.9 | 50.0 |
| Bromoform | Qua | | 0.1745 | 0.1000 | 22.3 | 20.0 | 11.5 | 50.0 |
| Isopropylbenzene | Ave | 1.312 | 1.484 | | 22.6 | 20.0 | 13.1 | 50.0 |
| 1,1,2,2-Tetrachloroethane | Ave | 0.5270 | 0.5599 | 0.3000 | 21.3 | 20.0 | 6.3 | 50.0 |
| Bromobenzene | Ave | 0.6851 | 0.7563 | | 22.1 | 20.0 | 10.4 | 50.0 |
| 1,2,3-Trichloropropane | Ave | 0.1889 | 0.2182 | | 23.1 | 20.0 | 15.5 | 50.0 |
| trans-1,4-Dichloro-2-butene | Ave | 0.1411 | 0.1563 | | 22.2 | 20.0 | 10.8 | 50.0 |
| n-Propylbenzene | Ave | 0.6641 | 0.8145 | | 24.5 | 20.0 | 22.6 | 50.0 |
| 2-Chlorotoluene | Ave | 0.6277 | 0.7104 | | 22.6 | 20.0 | 13.2 | 50.0 |
| 1,3,5-Trimethylbenzene | Ave | 1.960 | 2.247 | | 22.9 | 20.0 | 14.6 | 50.0 |
| 4-Chlorotoluene | Ave | 0.6215 | 0.7454 | | 24.0 | 20.0 | 19.9 | 50.0 |
| tert-Butylbenzene | Ave | 1.893 | 2.167 | | 22.9 | 20.0 | 14.5 | 50.0 |
| 1,2,4-Trimethylbenzene | Ave | 1.984 | 2.231 | | 22.5 | 20.0 | 12.5 | 50.0 |
| sec-Butylbenzene | Ave | 2.496 | 2.935 | | 23.5 | 20.0 | 17.5 | 50.0 |
| 1,3-Dichlorobenzene | Ave | 1.290 | 1.417 | | 22.0 | 20.0 | 9.9 | 50.0 |
| p-Isopropyltoluene | Ave | 2.081 | 2.509 | | 24.1 | 20.0 | 20.6 | 50.0 |
| 1,4-Dichlorobenzene | Ave | 1.331 | 1.412 | | 21.2 | 20.0 | 6.0 | 50.0 |
| n-Butylbenzene | Ave | 1.637 | 1.982 | | 24.2 | 20.0 | 21.1 | 50.0 |
| 1,2-Dichlorobenzene | Ave | 1.271 | 1.362 | | 21.4 | 20.0 | 7.2 | 50.0 |
| 1,2-Dibromo-3-Chloropropane | Qua | | 0.1172 | | 21.7 | 20.0 | 8.5 | 50.0 |
| 1,3,5-Trichlorobenzene | Ave | 0.8467 | 0.9678 | | 22.9 | 20.0 | 14.3 | 50.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.7416 | 0.8150 | | 22.0 | 20.0 | 9.9 | 50.0 |
| Hexachlorobutadiene | Ave | 0.3413 | 0.3967 | | 23.2 | 20.0 | 16.2 | 50.0 |
| Naphthalene | Ave | 1.877 | 1.918 | | 20.4 | 20.0 | 2.2 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Lab Sample ID: CCVIS 240-50546/5 Calibration Date: 07/12/2012 00:20

Instrument ID: A3UX8 Calib Start Date: 06/01/2012 02:08

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/01/2012 04:37

Lab File ID: UX89755.D Conc. Units: ug/L Heated Purge: (Y/N) Y

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 1,2,3-Trichlorobenzene | Ave | 0.7083 | 0.7266 | | 20.5 | 20.0 | 2.6 | 50.0 |
| Dibromofluoromethane (Surr) | Lin1 | | 0.2010 | | 43.7 | 50.0 | -12.6 | 50.0 |
| 1,2-Dichloroethane-d4 (Surr) | Lin1 | | 0.1776 | | 42.2 | 50.0 | -15.6 | 50.0 |
| Toluene-d8 (Surr) | Lin1 | | 0.9386 | | 42.8 | 50.0 | -14.4 | 50.0 |
| 4-Bromofluorobenzene (Surr) | Lin1 | | 0.3090 | | 42.8 | 50.0 | -14.4 | 50.0 |

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Lab File ID: UX89757.D Lab Sample ID: MB 240-50546/7

Matrix: Solid Heated Purge: (Y/N) Y

Instrument ID: A3UX8 Date Analyzed: 07/12/2012 01:02

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| | LCS 240-50546/6 | UX89756.D | 07/12/2012 00:41 |
| MT-SS19-8-10 | 240-13043-3 | UX89758.D | 07/12/2012 01:53 |
| MT-SS20-0-2 | 240-13043-4 | UX89759.D | 07/12/2012 02:14 |
| MT-SS20-8-10 | 240-13043-5 | UX89760.D | 07/12/2012 02:35 |
| MT-SS21-0-2 | 240-13043-6 | UX89761.D | 07/12/2012 02:57 |
| MT-SS21-8-10 | 240-13043-7 | UX89762.D | 07/12/2012 03:18 |
| MT-SS19-0-2 | 240-13043-2 | UX89763.D | 07/12/2012 03:39 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Client Sample ID:  Lab Sample ID: MB 240-50546/7

Matrix: Solid  Lab File ID: UX89757.D

Analysis Method: 8260B  Date Collected:

Sample wt/vol: 5(g)  Date Analyzed: 07/12/2012 01:02

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 50546  Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 5.0 | U | 5.0 | 0.62 |
| 71-55-6 | 1,1,1-Trichloroethane | 5.0 | U | 5.0 | 0.56 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5.0 | U | 5.0 | 0.34 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trichfluoroeth ane | 5.0 | U | 5.0 | 1.3 |
| 75-34-3 | 1,1-Dichloroethane | 5.0 | U | 5.0 | 0.36 |
| 75-35-4 | 1,1-Dichloroethene | 5.0 | U | 5.0 | 0.52 |
| 563-58-6 | 1,1-Dichloropropene | 5.0 | U | 5.0 | 0.30 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 5.0 | U | 5.0 | 0.38 |
| 96-18-4 | 1,2,3-Trichloropropane | 5.0 | U | 5.0 | 0.90 |
| 526-73-8 | 1,2,3-Trimethylbenzene | 5.0 | U | 5.0 | 0.17 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 5.0 | U | 5.0 | 0.27 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 5.0 | U | 5.0 | 0.65 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 10 | U | 10 | 1.3 |
| 95-50-1 | 1,2-Dichlorobenzene | 5.0 | U | 5.0 | 0.36 |
| 107-06-2 | 1,2-Dichloroethane | 5.0 | U | 5.0 | 0.34 |
| 78-87-5 | 1,2-Dichloropropane | 5.0 | U | 5.0 | 0.69 |
| 541-73-1 | 1,3-Dichlorobenzene | 5.0 | U | 5.0 | 0.35 |
| 142-28-9 | 1,3-Dichloropropane | 5.0 | U | 5.0 | 0.34 |
| 106-46-7 | 1,4-Dichlorobenzene | 5.0 | U | 5.0 | 0.66 |
| 594-20-7 | 2,2-Dichloropropane | 5.0 | U | 5.0 | 0.94 |
| 110-75-8 | 2-Chloroethyl vinyl ether | 50 | U | 50 | 1.4 |
| 95-49-8 | 2-Chlorotoluene | 5.0 | U | 5.0 | 0.40 |
| 591-78-6 | 2-Hexanone | 20 | U | 20 | 0.63 |
| 106-43-4 | 4-Chlorotoluene | 5.0 | U | 5.0 | 0.41 |
| 67-64-1 | Acetone | 6.35 | J | 20 | 6.3 |
| 71-43-2 | Benzene | 5.0 | U | 5.0 | 0.23 |
| 108-86-1 | Bromobenzene | 5.0 | U | 5.0 | 0.33 |
| 74-97-5 | Bromochloromethane | 5.0 | U | 5.0 | 0.71 |
| 75-25-2 | Bromoform | 5.0 | U | 5.0 | 0.33 |
| 74-83-9 | Bromomethane | 5.0 | U | 5.0 | 0.54 |
| 75-15-0 | Carbon disulfide | 5.0 | U | 5.0 | 0.44 |
| 56-23-5 | Carbon tetrachloride | 5.0 | U | 5.0 | 0.37 |
| 108-90-7 | Chlorobenzene | 5.0 | U | 5.0 | 0.33 |
| 75-00-3 | Chloroethane | 5.0 | U | 5.0 | 0.86 |
| 67-66-3 | Chloroform | 5.0 | U | 5.0 | 0.29 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Client Sample ID:  Lab Sample ID: MB 240-50546/7

Matrix: Solid  Lab File ID: UX89757.D

Analysis Method: 8260B  Date Collected:

Sample wt/vol: 5(g)  Date Analyzed: 07/12/2012 01:02

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 50546  Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | 5.0 | U | 5.0 | 0.41 |
| 156-59-2 | cis-1,2-Dichloroethene | 5.0 | U | 5.0 | 0.36 |
| 75-27-4 | Bromodichloromethane | 5.0 | U | 5.0 | 0.28 |
| 10061-01-5 | cis-1,3-Dichloropropene | 5.0 | U | 5.0 | 0.34 |
| 106-93-4 | 1,2-Dibromoethane | 5.0 | U | 5.0 | 0.50 |
| 74-95-3 | Dibromomethane | 5.0 | U | 5.0 | 0.63 |
| 75-71-8 | Dichlorodifluoromethane | 5.0 | U | 5.0 | 0.50 |
| 108-20-3 | Diisopropyl ether | 10 | U | 10 | 1.5 |
| 100-41-4 | Ethylbenzene | 5.0 | U | 5.0 | 0.26 |
| 87-68-3 | Hexachlorobutadiene | 5.0 | U | 5.0 | 1.2 |
| 98-82-8 | Isopropylbenzene | 5.0 | U | 5.0 | 0.16 |
| 78-93-3 | 2-Butanone | 20 | U | 20 | 1.4 |
| 108-10-1 | 4-Methyl-2-pentanone | 20 | U | 20 | 0.54 |
| 179601-23-1 | m-Xylene & p-Xylene | 10 | U | 10 | 1.2 |
| 1634-04-4 | Methyl tert-butyl ether | 20 | U | 20 | 0.43 |
| 91-20-3 | Naphthalene | 0.505 | J | 5.0 | 0.19 |
| 104-51-8 | n-Butylbenzene | 5.0 | U | 5.0 | 0.23 |
| 75-09-2 | Methylene Chloride | 3.62 | J | 5.0 | 0.67 |
| 103-65-1 | n-Propylbenzene | 5.0 | U | 5.0 | 0.40 |
| 95-47-6 | o-Xylene | 5.0 | U | 5.0 | 0.35 |
| 99-87-6 | p-Isopropyltoluene | 5.0 | U | 5.0 | 0.21 |
| 135-98-8 | sec-Butylbenzene | 5.0 | U | 5.0 | 0.18 |
| 637-92-3 | Ethyl-t-butyl ether (ETBE) | 5.0 | U | 5.0 | 0.22 |
| 100-42-5 | Styrene | 5.0 | U | 5.0 | 0.15 |
| 994-05-8 | Tert-amyl-methyl ether (TAME) | 5.0 | U | 5.0 | 0.37 |
| 98-06-6 | tert-Butylbenzene | 5.0 | U | 5.0 | 0.29 |
| 127-18-4 | Tetrachloroethene | 5.0 | U | 5.0 | 0.52 |
| 108-88-3 | Toluene | 5.0 | U | 5.0 | 0.27 |
| 156-60-5 | trans-1,2-Dichloroethene | 5.0 | U | 5.0 | 0.41 |
| 10061-02-6 | trans-1,3-Dichloropropene | 5.0 | U | 5.0 | 0.54 |
| 79-01-6 | Trichloroethene | 5.0 | U | 5.0 | 0.42 |
| 75-69-4 | Trichlorofluoromethane | 5.0 | U | 5.0 | 0.34 |
| 75-65-0 | tert-Butyl alcohol | 200 | U | 200 | 7.6 |
| 108-05-4 | Vinyl acetate | 10 | U | 10 | 0.25 |
| 75-01-4 | Vinyl chloride | 5.0 | U | 5.0 | 0.39 |
| 124-48-1 | Dibromochloromethane | 5.0 | U | 5.0 | 0.55 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-50546/7

Matrix: Solid | Lab File ID: UX89757.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 07/12/2012 01:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 50546 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 1330-20-7 | Xylenes, Total | 10 | U | 10 | 0.67 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 84 | | 58-123 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 89 | | 52-136 |
| 2037-26-5 | Toluene-d8 (Surr) | 90 | | 67-125 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 85 | | 37-132 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Client Sample ID:  Lab Sample ID: MB 240-50546/7

Matrix: Solid  Lab File ID: UX89757.D

Analysis Method: 8260B  Date Collected:

Sample wt/vol: 5(g)  Date Analyzed: 07/12/2012 01:02

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624 ID: 0.18(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 50546  Units: ug/Kg

Number TICs Found: 0  TIC Result Total: 0

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| | Tentatively Identified Compound | | None | |

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: UX89756.D

Lab ID: LCS 240-50546/6 Client ID:

| COMPOUND | SPIKE ADDED (ug/Kg) | LCS CONCENTRATION (ug/Kg) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 25.0 | 26.0 | 104 | 81-119 | |
| 1,1,1-Trichloroethane | 25.0 | 27.0 | 108 | 77-126 | |
| 1,1,2,2-Tetrachloroethane | 25.0 | 27.3 | 109 | 77-123 | |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 25.0 | 26.0 | 104 | 82-138 | |
| 1,1-Dichloroethane | 25.0 | 25.6 | 102 | 76-115 | |
| 1,1-Dichloroethene | 25.0 | 27.3 | 109 | 75-135 | |
| 1,1-Dichloropropene | 25.0 | 26.8 | 107 | 80-120 | |
| 1,2,3-Trichlorobenzene | 25.0 | 23.4 | 94 | 61-121 | |
| 1,2,3-Trichloropropane | 25.0 | 28.3 | 113 | 84-126 | |
| 1,2,3-Trimethylbenzene | 25.0 | 25.5 | 102 | 70-130 | |
| 1,2,4-Trichlorobenzene | 25.0 | 23.6 | 94 | 64-124 | |
| 1,2,4-Trimethylbenzene | 25.0 | 25.9 | 104 | 80-129 | |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 27.7 | 111 | 61-132 | |
| 1,2-Dichlorobenzene | 25.0 | 25.3 | 101 | 76-110 | |
| 1,2-Dichloroethane | 25.0 | 26.6 | 106 | 72-120 | |
| 1,2-Dichloropropane | 25.0 | 27.5 | 110 | 87-113 | |
| 1,3-Dichlorobenzene | 25.0 | 25.8 | 103 | 78-111 | |
| 1,3-Dichloropropane | 25.0 | 26.6 | 106 | 82-118 | |
| 1,4-Dichlorobenzene | 25.0 | 24.8 | 99 | 75-110 | |
| 2,2-Dichloropropane | 25.0 | 23.9 | 96 | 69-135 | |
| 2-Chloroethyl vinyl ether | 25.0 | 37.0 J | 148 | 28-173 | |
| 2-Chlorotoluene | 25.0 | 26.6 | 106 | 78-119 | |
| 2-Hexanone | 50.0 | 58.3 | 117 | 64-136 | |
| 4-Chlorotoluene | 25.0 | 26.3 | 105 | 79-118 | |
| Acetone | 50.0 | 71.7 | 143 | 41-137 | * |
| Benzene | 25.0 | 25.6 | 102 | 79-112 | |
| Bromobenzene | 25.0 | 27.1 | 108 | 81-115 | |
| Bromochloromethane | 25.0 | 26.0 | 104 | 79-111 | |
| Bromoform | 25.0 | 27.0 | 108 | 62-133 | |
| Bromomethane | 25.0 | 21.5 | 86 | 42-136 | |
| Carbon disulfide | 25.0 | 24.5 | 98 | 62-146 | |
| Carbon tetrachloride | 25.0 | 25.2 | 101 | 71-129 | |
| Chlorobenzene | 25.0 | 25.7 | 103 | 78-110 | |
| Chloroethane | 25.0 | 23.2 | 93 | 58-117 | |
| Chloroform | 25.0 | 24.6 | 98 | 77-114 | |
| Chloromethane | 25.0 | 16.5 | 66 | 50-110 | |
| cis-1,2-Dichloroethene | 25.0 | 26.0 | 104 | 76-113 | |
| Bromodichloromethane | 25.0 | 28.0 | 112 | 84-122 | |
| cis-1,3-Dichloropropene | 25.0 | 23.7 | 95 | 74-128 | |
| 1,2-Dibromoethane | 25.0 | 27.3 | 109 | 83-117 | |
| Dibromomethane | 25.0 | 28.3 | 113 | 85-120 | |

# Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: UX89756.D

Lab ID: LCS 240-50546/6 Client ID:

| COMPOUND | SPIKE ADDED (ug/Kg) | LCS CONCENTRATION (ug/Kg) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 25.0 | 17.3 | 69 | 26-113 | |
| Diisopropyl ether | 25.0 | 24.9 | 100 | 82-119 | |
| Ethylbenzene | 25.0 | 25.9 | 104 | 79-117 | |
| Hexachlorobutadiene | 25.0 | 24.4 | 98 | 54-131 | |
| Isopropylbenzene | 25.0 | 24.9 | 100 | 76-122 | |
| 2-Butanone | 50.0 | 54.7 | 109 | 52-131 | |
| 4-Methyl-2-pentanone | 50.0 | 57.4 | 115 | 67-135 | |
| m-Xylene & p-Xylene | 50.0 | 50.6 | 101 | 80-117 | |
| Methyl tert-butyl ether | 25.0 | 25.6 | 102 | 49-165 | |
| Naphthalene | 25.0 | 24.6 | 98 | 65-123 | |
| n-Butylbenzene | 25.0 | 26.4 | 106 | 68-135 | |
| Methylene Chloride | 25.0 | 29.3 | 117 | 75-118 | |
| n-Propylbenzene | 25.0 | 27.4 | 110 | 81-129 | |
| o-Xylene | 25.0 | 25.3 | 101 | 80-120 | |
| p-Isopropyltoluene | 25.0 | 27.7 | 111 | 77-131 | |
| sec-Butylbenzene | 25.0 | 26.2 | 105 | 74-129 | |
| Styrene | 25.0 | 26.5 | 106 | 87-117 | |
| tert-Butylbenzene | 25.0 | 25.5 | 102 | 76-126 | |
| Tetrachloroethene | 25.0 | 25.5 | 102 | 79-114 | |
| Toluene | 25.0 | 24.6 | 98 | 75-111 | |
| trans-1,2-Dichloroethene | 25.0 | 25.5 | 102 | 78-117 | |
| trans-1,3-Dichloropropene | 25.0 | 25.5 | 102 | 73-131 | |
| Trichloroethene | 25.0 | 26.5 | 106 | 79-113 | |
| Trichlorofluoromethane | 25.0 | 26.3 | 105 | 57-146 | |
| tert-Butyl alcohol | 500 | 543 | 109 | 60-125 | |
| Vinyl acetate | 25.0 | 21.2 | 85 | 70-130 | |
| Vinyl chloride | 25.0 | 17.8 | 71 | 57-114 | |
| Dibromochloromethane | 25.0 | 24.1 | 96 | 72-127 | |
| Xylenes, Total | 75.0 | 75.9 | 101 | 80-118 | |

# Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXX7811.D

Lab ID: 240-13086-E-8 MS Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 10.0 | 1.0 U | 9.20 | 92 | 64-118 | |
| 1,1,1-Trichloroethane | 10.0 | 0.66 J | 9.53 | 89 | 68-121 | |
| 1,1,2,2-Tetrachloroethane | 10.0 | 1.0 U | 8.16 | 82 | 63-122 | |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 10.0 | 1.0 U | 9.43 | 94 | 70-152 | |
| 1,1-Dichloroethane | 10.0 | 1.0 U | 9.40 | 94 | 79-116 | |
| 1,1-Dichloroethene | 10.0 | 1.0 U | 9.04 | 90 | 74-135 | |
| 1,1-Dichloropropene | 10.0 | 1.0 U | 8.97 | 90 | 80-114 | |
| 1,2,3-Trichlorobenzene | 10.0 | 1.0 U | 5.39 | 54 | 45-129 | |
| 1,2,3-Trichloropropane | 10.0 | 1.0 U | 8.47 | 85 | 67-132 | |
| 1,2,3-Trimethylbenzene | 10.0 | 5.0 U | 8.28 | 83 | 70-130 | |
| 1,2,4-Trichlorobenzene | 10.0 | 1.0 U | 6.45 | 65 | 38-138 | |
| 1,2,4-Trimethylbenzene | 10.0 | 1.0 U | 8.34 | 83 | 67-124 | |
| 1,2-Dibromo-3-Chloropropane | 10.0 | 2.0 U | 7.68 | 77 | 32-139 | |
| 1,2-Dichlorobenzene | 10.0 | 1.0 U | 8.30 | 83 | 75-111 | |
| 1,2-Dichloroethane | 10.0 | 1.0 U | 8.60 | 86 | 68-129 | |
| 1,2-Dichloropropane | 10.0 | 1.0 U | 8.95 | 90 | 78-115 | |
| 1,3-Dichlorobenzene | 10.0 | 1.0 U | 8.38 | 84 | 73-110 | |
| 1,3-Dichloropropane | 10.0 | 1.0 U | 8.86 | 89 | 74-118 | |
| 1,4-Dichlorobenzene | 10.0 | 1.0 U | 8.36 | 84 | 75-110 | |
| 2,2-Dichloropropane | 10.0 | 1.0 U | 8.64 | 86 | 38-127 | |
| 2-Chloroethyl vinyl ether | 10.0 | 10 U | 10 U | 0 | 10-150 | F |
| 2-Chlorotoluene | 10.0 | 1.0 U | 8.50 | 85 | 69-117 | |
| 2-Hexanone | 20.0 | 10 U | 17.0 | 85 | 47-139 | |
| 4-Chlorotoluene | 10.0 | 1.0 U | 8.60 | 86 | 71-116 | |
| Acetone | 20.0 | 10 U | 13.5 | 68 | 33-145 | |
| Benzene | 10.0 | 1.0 U | 8.98 | 90 | 72-121 | |
| Bromobenzene | 10.0 | 1.0 U | 8.77 | 88 | 71-116 | |
| Bromochloromethane | 10.0 | 1.0 U | 8.59 | 86 | 73-121 | |
| Bromoform | 10.0 | 1.0 U | 9.03 | 90 | 32-128 | |
| Bromomethane | 10.0 | 1.0 U | 8.31 | 83 | 10-186 | |
| Carbon disulfide | 10.0 | 1.0 U | 7.77 | 78 | 57-147 | |
| Carbon tetrachloride | 10.0 | 1.0 U | 9.28 | 93 | 59-129 | |
| Chlorobenzene | 10.0 | 1.0 U | 8.65 | 87 | 80-110 | |
| Chloroethane | 10.0 | 1.0 U | 7.84 | 78 | 21-165 | |
| Chloroform | 10.0 | 1.0 U | 8.67 | 87 | 76-118 | |
| Chloromethane | 10.0 | 1.0 U | 7.69 | 77 | 33-132 | |
| cis-1,2-Dichloroethene | 10.0 | 2.2 | 10.9 | 87 | 70-120 | |
| Bromodichloromethane | 10.0 | 1.0 U | 9.03 | 90 | 67-120 | |
| cis-1,3-Dichloropropene | 10.0 | 1.0 U | 8.29 | 83 | 51-110 | |
| 1,2-Dibromoethane | 10.0 | 1.0 U | 8.72 | 87 | 74-113 | |
| Dibromomethane | 10.0 | 1.0 U | 8.98 | 90 | 77-121 | |

# Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXX7811.D

Lab ID: 240-13086-E-8 MS Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 10.0 | 1.0 U | 5.71 | 57 | 17-128 | |
| Diisopropyl ether | 10.0 | 10 U | 9.02 J | 90 | 73-118 | |
| Ethylbenzene | 10.0 | 1.0 U | 8.76 | 88 | 75-116 | |
| Hexachlorobutadiene | 10.0 | 1.0 U | 6.29 | 63 | 27-132 | |
| Isopropylbenzene | 10.0 | 1.0 U | 8.44 | 84 | 68-116 | |
| 2-Butanone | 20.0 | 10 U | 15.1 | 76 | 54-129 | |
| 4-Methyl-2-pentanone | 20.0 | 10 U | 16.0 | 80 | 56-131 | |
| m-Xylene & p-Xylene | 20.0 | 2.0 U | 17.5 | 88 | 75-117 | |
| Methyl tert-butyl ether | 10.0 | 5.0 U | 8.33 | 83 | 46-144 | |
| Naphthalene | 10.0 | 1.0 U | 5.64 | 56 | 15-158 | |
| n-Butylbenzene | 10.0 | 1.0 U | 8.00 | 80 | 56-127 | |
| Methylene Chloride | 10.0 | 1.0 U | 7.69 | 77 | 63-128 | |
| n-Propylbenzene | 10.0 | 1.0 U | 8.79 | 88 | 64-124 | |
| o-Xylene | 10.0 | 1.0 U | 8.65 | 87 | 76-116 | |
| p-Isopropyltoluene | 10.0 | 1.0 U | 8.43 | 84 | 64-122 | |
| sec-Butylbenzene | 10.0 | 1.0 U | 8.15 | 82 | 60-119 | |
| Styrene | 10.0 | 1.0 U | 8.79 | 88 | 71-117 | |
| tert-Butylbenzene | 10.0 | 1.0 U | 7.88 | 79 | 61-119 | |
| Tetrachloroethene | 10.0 | 21 | 30.6 | 93 | 70-117 | |
| Toluene | 10.0 | 1.0 U | 9.06 | 91 | 78-114 | |
| trans-1,2-Dichloroethene | 10.0 | 1.0 U | 8.81 | 88 | 80-119 | |
| trans-1,3-Dichloropropene | 10.0 | 1.0 U | 8.80 | 88 | 46-116 | |
| Trichloroethene | 10.0 | 9.7 | 18.4 | 88 | 66-120 | |
| Trichlorofluoromethane | 10.0 | 1.0 U | 8.80 | 88 | 46-157 | |
| tert-Butyl alcohol | 200 | 50 U | 122 | 61 | 70-130 | F |
| Vinyl acetate | 10.0 | 2.0 U | 6.68 | 67 | 43-157 | |
| Vinyl chloride | 10.0 | 1.0 U | 7.73 | 77 | 49-130 | |
| Dibromochloromethane | 10.0 | 1.0 U | 9.16 | 92 | 56-118 | |
| Xylenes, Total | 30.0 | 2.0 U | 26.2 | 87 | 76-116 | |

# Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXX7812.D

Lab ID: 240-13086-D-8 MSD Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD % REC | % RPD | QC LIMITS RPD | QC LIMITS REC | # |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 10.0 | 9.87 | 99 | 7 | 30 | 64-118 | |
| 1,1,1-Trichloroethane | 10.0 | 10.1 | 94 | 6 | 30 | 68-121 | |
| 1,1,2,2-Tetrachloroethane | 10.0 | 8.97 | 90 | 9 | 30 | 63-122 | |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 10.0 | 9.55 | 96 | 1 | 30 | 70-152 | |
| 1,1-Dichloroethane | 10.0 | 9.98 | 100 | 6 | 30 | 79-116 | |
| 1,1-Dichloroethene | 10.0 | 9.17 | 92 | 1 | 30 | 74-135 | |
| 1,1-Dichloropropene | 10.0 | 9.42 | 94 | 5 | 30 | 80-114 | |
| 1,2,3-Trichlorobenzene | 10.0 | 6.15 | 62 | 13 | 30 | 45-129 | |
| 1,2,3-Trichloropropane | 10.0 | 8.98 | 90 | 6 | 30 | 67-132 | |
| 1,2,3-Trimethylbenzene | 10.0 | 9.13 | 91 | 10 | 30 | 70-130 | |
| 1,2,4-Trichlorobenzene | 10.0 | 7.13 | 71 | 10 | 30 | 38-138 | |
| 1,2,4-Trimethylbenzene | 10.0 | 9.15 | 92 | 9 | 30 | 67-124 | |
| 1,2-Dibromo-3-Chloropropane | 10.0 | 8.89 | 89 | 15 | 30 | 32-139 | |
| 1,2-Dichlorobenzene | 10.0 | 9.00 | 90 | 8 | 30 | 75-111 | |
| 1,2-Dichloroethane | 10.0 | 9.01 | 90 | 5 | 30 | 68-129 | |
| 1,2-Dichloropropane | 10.0 | 9.94 | 99 | 10 | 30 | 78-115 | |
| 1,3-Dichlorobenzene | 10.0 | 9.29 | 93 | 10 | 30 | 73-110 | |
| 1,3-Dichloropropane | 10.0 | 9.59 | 96 | 8 | 30 | 74-118 | |
| 1,4-Dichlorobenzene | 10.0 | 8.85 | 89 | 6 | 30 | 75-110 | |
| 2,2-Dichloropropane | 10.0 | 9.12 | 91 | 5 | 30 | 38-127 | |
| 2-Chloroethyl vinyl ether | 10.0 | 10 U | 0 | NC | 30 | 10-150 | F |
| 2-Chlorotoluene | 10.0 | 9.12 | 91 | 7 | 30 | 69-117 | |
| 2-Hexanone | 20.0 | 19.1 | 96 | 12 | 30 | 47-139 | |
| 4-Chlorotoluene | 10.0 | 9.28 | 93 | 8 | 30 | 71-116 | |
| Acetone | 20.0 | 13.1 | 66 | 3 | 30 | 33-145 | |
| Benzene | 10.0 | 9.53 | 95 | 6 | 30 | 72-121 | |
| Bromobenzene | 10.0 | 9.19 | 92 | 5 | 30 | 71-116 | |
| Bromochloromethane | 10.0 | 9.11 | 91 | 6 | 30 | 73-121 | |
| Bromoform | 10.0 | 10.1 | 101 | 11 | 30 | 32-128 | |
| Bromomethane | 10.0 | 7.92 | 79 | 5 | 30 | 10-186 | |
| Carbon disulfide | 10.0 | 8.27 | 83 | 6 | 30 | 57-147 | |
| Carbon tetrachloride | 10.0 | 9.91 | 99 | 7 | 30 | 59-129 | |
| Chlorobenzene | 10.0 | 9.21 | 92 | 6 | 30 | 80-110 | |
| Chloroethane | 10.0 | 7.95 | 80 | 1 | 30 | 21-165 | |
| Chloroform | 10.0 | 9.11 | 91 | 5 | 30 | 76-118 | |
| Chloromethane | 10.0 | 7.59 | 76 | 1 | 30 | 33-132 | |
| cis-1,2-Dichloroethene | 10.0 | 11.3 | 91 | 4 | 30 | 70-120 | |
| Bromodichloromethane | 10.0 | 10.1 | 101 | 11 | 30 | 67-120 | |
| cis-1,3-Dichloropropene | 10.0 | 9.11 | 91 | 9 | 30 | 51-110 | |
| 1,2-Dibromoethane | 10.0 | 9.37 | 94 | 7 | 30 | 74-113 | |
| Dibromomethane | 10.0 | 9.61 | 96 | 7 | 30 | 77-121 | |

# Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXX7812.D

Lab ID: 240-13086-D-8 MSD Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD % REC | % RPD | QC LIMITS RPD | QC LIMITS REC | # |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 10.0 | 6.26 | 63 | 9 | 30 | 17-128 | |
| Diisopropyl ether | 10.0 | 9.51 J | 95 | 5 | 30 | 73-118 | |
| Ethylbenzene | 10.0 | 9.32 | 93 | 6 | 30 | 75-116 | |
| Hexachlorobutadiene | 10.0 | 7.49 | 75 | 17 | 30 | 27-132 | |
| Isopropylbenzene | 10.0 | 9.17 | 92 | 8 | 30 | 68-116 | |
| 2-Butanone | 20.0 | 15.7 | 79 | 4 | 30 | 54-129 | |
| 4-Methyl-2-pentanone | 20.0 | 17.9 | 90 | 11 | 30 | 56-131 | |
| m-Xylene & p-Xylene | 20.0 | 18.8 | 94 | 7 | 30 | 75-117 | |
| Methyl tert-butyl ether | 10.0 | 8.85 | 89 | 6 | 30 | 46-144 | |
| Naphthalene | 10.0 | 6.67 | 67 | 17 | 30 | 15-158 | |
| n-Butylbenzene | 10.0 | 9.00 | 90 | 12 | 30 | 56-127 | |
| Methylene Chloride | 10.0 | 7.91 | 79 | 3 | 30 | 63-128 | |
| n-Propylbenzene | 10.0 | 9.38 | 94 | 6 | 30 | 64-124 | |
| o-Xylene | 10.0 | 9.41 | 94 | 8 | 30 | 76-116 | |
| p-Isopropyltoluene | 10.0 | 9.37 | 94 | 11 | 30 | 64-122 | |
| sec-Butylbenzene | 10.0 | 8.86 | 89 | 8 | 30 | 60-119 | |
| Styrene | 10.0 | 9.58 | 96 | 9 | 30 | 71-117 | |
| tert-Butylbenzene | 10.0 | 9.30 | 93 | 17 | 30 | 61-119 | |
| Tetrachloroethene | 10.0 | 30.6 | 93 | 0 | 30 | 70-117 | |
| Toluene | 10.0 | 9.59 | 96 | 6 | 30 | 78-114 | |
| trans-1,2-Dichloroethene | 10.0 | 9.25 | 93 | 5 | 30 | 80-119 | |
| trans-1,3-Dichloropropene | 10.0 | 9.64 | 96 | 9 | 30 | 46-116 | |
| Trichloroethene | 10.0 | 18.5 | 89 | 1 | 30 | 66-120 | |
| Trichlorofluoromethane | 10.0 | 9.14 | 91 | 4 | 30 | 46-157 | |
| tert-Butyl alcohol | 200 | 136 | 68 | 11 | 30 | 70-130 | F |
| Vinyl acetate | 10.0 | 7.05 | 71 | 5 | 30 | 43-157 | |
| Vinyl chloride | 10.0 | 8.07 | 81 | 4 | 30 | 49-130 | |
| Dibromochloromethane | 10.0 | 9.97 | 100 | 8 | 30 | 56-118 | |
| Xylenes, Total | 30.0 | 28.2 | 94 | 8 | 30 | 76-116 | |

# Column to be used to flag recovery and RPD values

FORM III 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

| Client Sample ID | Lab Sample ID | DBFM # | DCA # | TOL # | BFB # |
|---|---|---|---|---|---|
| TB-070912 | 240-13043-1 | 100 | 96 | 100 | 92 |
| | MB 240-50786/5 | 97 | 92 | 100 | 94 |
| | LCS 240-50786/4 | 96 | 96 | 105 | 100 |
| | 240-13086-E-8 MS | 99 | 96 | 104 | 100 |
| | 240-13086-D-8 MSD | 96 | 94 | 103 | 100 |

| | QC LIMITS |
|---|---|
| DBFM = Dibromofluoromethane (Surr) | 75-121 |
| DCA = 1,2-Dichloroethane-d4 (Surr) | 63-129 |
| TOL = Toluene-d8 (Surr) | 74-115 |
| BFB = 4-Bromofluorobenzene (Surr) | 66-117 |

# Column to be used to flag recovery values

FORM II 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

| Client Sample ID | Lab Sample ID | DBFM # | DCA # | TOL # | BFB # |
|---|---|---|---|---|---|
| MT-SS19-0-2 | 240-13043-2 | 87 | 92 | 85 | 84 |
| MT-SS19-8-10 | 240-13043-3 | 88 | 91 | 84 | 88 |
| MT-SS20-0-2 | 240-13043-4 | 88 | 86 | 92 | 88 |
| MT-SS20-8-10 | 240-13043-5 | 89 | 91 | 90 | 89 |
| MT-SS21-0-2 | 240-13043-6 | 90 | 95 | 88 | 91 |
| MT-SS21-8-10 | 240-13043-7 | 89 | 91 | 89 | 92 |
| | MB 240-50546/7 | 85 | 84 | 90 | 89 |
| | LCS 240-50546/6 | 86 | 85 | 87 | 87 |

| | QC LIMITS |
|---|---|
| DBFM = Dibromofluoromethane (Surr) | 37-132 |
| DCA = 1,2-Dichloroethane-d4 (Surr) | 58-123 |
| TOL = Toluene-d8 (Surr) | 67-125 |
| BFB = 4-Bromofluorobenzene (Surr) | 52-136 |

# Column to be used to flag recovery values

FORM II 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Sample No.: STD8260 240-49387/4  Date Analyzed: 06/29/2012 10:02

Instrument ID: A3UX10  GC Column: DB-624  ID: 0.18(mm)

Lab File ID (Standard): UXX7455.D  Heated Purge: (Y/N) N

Calibration ID: 9788

| | | FB | | CBZ | | DCB | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | | 1489647 | 5.21 | 1053937 | 7.88 | 524383 | 10.13 |
| UPPER LIMIT | | 2979294 | 5.71 | 2107874 | 8.38 | 1048766 | 10.63 |
| LOWER LIMIT | | 744824 | 4.71 | 526969 | 7.38 | 262192 | 9.63 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| ICV 240-49387/14 | | 1494958 | 5.20 | 1043859 | 7.88 | 534450 | 10.13 |
| CCVIS 240-50786/2 | | 1190893 | 5.21 | 802286 | 7.88 | 403707 | 10.13 |

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Sample No.: CCVIS 240-50786/2  Date Analyzed: 07/13/2012 14:45

Instrument ID: A3UX10  GC Column: DB-624  ID: 0.18(mm)

Lab File ID (Standard): UXX7799.D  Heated Purge: (Y/N) N

Calibration ID: 9790

| | | FB | | CBZ | | DCB | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 1190893 | 5.21 | 802286 | 7.88 | 403707 | 10.13 |
| UPPER LIMIT | | 2381786 | 5.71 | 1604572 | 8.38 | 807414 | 10.63 |
| LOWER LIMIT | | 595447 | 4.71 | 401143 | 7.38 | 201854 | 9.63 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| CCV 240-50786/3 | | 1171120 | 5.21 | 770787 | 7.88 | 364968 | 10.13 |
| LCS 240-50786/4 | | 1205135 | 5.21 | 810371 | 7.88 | 404771 | 10.13 |
| MB 240-50786/5 | | 1147540 | 5.21 | 766896 | 7.88 | 366794 | 10.13 |
| 240-13086-E-8 MS | | 1216691 | 5.21 | 818595 | 7.88 | 403387 | 10.13 |
| 240-13086-D-8 MSD | | 1182109 | 5.22 | 803599 | 7.88 | 405279 | 10.13 |
| 240-13043-1 | TB-070912 | 1118004 | 5.21 | 757654 | 7.88 | 359643 | 10.13 |

FB = Fluorobenzene
FB = Fluorobenzene
CBZ = Chlorobenzene-d5
CBZ = Chlorobenzene-d5
Area Limit = 50%-200% of internal standard area
DCB = 1,4-Dichlorobenzene-d4
RT Limit = ± 0.5 minutes of internal standard RT
DCB = 1,4-Dichlorobenzene-d4

# Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Sample No.: STD8260 240-45924/6  Date Analyzed: 06/01/2012 03:12

Instrument ID: A3UX8  GC Column: DB-624  ID: 0.18(mm)

Lab File ID (Standard): UX88960.D  Heated Purge: (Y/N) Y

Calibration ID: 9093

| | | FB | | CBZ | | DCB | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | | 1839866 | 5.16 | 1364346 | 7.69 | 739881 | 9.88 |
| UPPER LIMIT | | 3679732 | 5.66 | 2728692 | 8.19 | 1479762 | 10.38 |
| LOWER LIMIT | | 919933 | 4.66 | 682173 | 7.19 | 369941 | 9.38 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| ICV 240-45924/17 | | 1829164 | 5.16 | 1383331 | 7.67 | 734578 | 9.87 |
| CCVIS 240-50546/5 | | 1288071 | 5.16 | 1039049 | 7.68 | 547797 | 9.88 |

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Sample No.: CCVIS 240-50546/5  Date Analyzed: 07/12/2012 00:20

Instrument ID: A3UX8  GC Column: DB-624  ID: 0.18(mm)

Lab File ID (Standard): UX89755.D  Heated Purge: (Y/N) Y

Calibration ID: 9095

| | | FB | | CBZ | | DCB | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 1288071 | 5.16 | 1039049 | 7.68 | 547797 | 9.88 |
| UPPER LIMIT | | 2576142 | 5.66 | 2078098 | 8.18 | 1095594 | 10.38 |
| LOWER LIMIT | | 644036 | 4.66 | 519525 | 7.18 | 273899 | 9.38 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| CCV 240-50546/4 | | 1363221 | 5.16 | 1054904 | 7.68 | 544626 | 9.88 |
| LCS 240-50546/6 | | 1268918 | 5.16 | 1014533 | 7.68 | 532590 | 9.88 |
| MB 240-50546/7 | | 1292904 | 5.16 | 1032304 | 7.68 | 552941 | 9.88 |
| 240-13043-3 | MT-SS19-8-10 | 1335916 | 5.16 | 1025660 | 7.69 | 606336 | 9.87 |
| 240-13043-4 | MT-SS20-0-2 | 1208836 | 5.16 | 946212 | 7.68 | 491504 | 9.88 |
| 240-13043-5 | MT-SS20-8-10 | 1305535 | 5.16 | 1036471 | 7.69 | 544368 | 9.88 |
| 240-13043-6 | MT-SS21-0-2 | 1337861 | 5.16 | 1084657 | 7.68 | 585385 | 9.88 |
| 240-13043-7 | MT-SS21-8-10 | 1307494 | 5.16 | 1050784 | 7.69 | 577934 | 9.88 |
| 240-13043-2 | MT-SS19-0-2 | 1333001 | 5.16 | 1057063 | 7.69 | 559332 | 9.88 |

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4
Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8260B

# Method 8270D

## Semivolatile Organic Compounds (GC/MS) by Method 8270D

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Lab File ID: 20711001.D DFTPP Injection Date: 07/11/2012

Instrument ID: A4HP7 DFTPP Injection Time: 11:01

Analysis Batch No.: 50462

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 51 | 30.0- 80.0% of mass 198 | 77.0 | |
| 68 | Less than 2.0% of mass 69 | 0.0 | (0.0)1 |
| 69 | Mass 69 relative abundance | 53.3 | |
| 70 | Less than 2.0% of mass 69 | 0.2 | (0.3)1 |
| 127 | 25.0 - 75.0% of mass 198 | 62.1 | |
| 197 | Less than 1.0% of mass 198 | 0.0 | |
| 198 | Base Peak, 100% relative abundance | 100.0 | |
| 199 | 5.0 to 9.0% of mass 198 | 6.8 | |
| 275 | 10.0- 30.0% of mass 198 | 24.8 | |
| 365 | Greater than 0.75% of mass 198 | 2.5 | |
| 441 | Present, but less than mass 443 | 13.9 | |
| 442 | 40.0 - 110.0% of mass 198 | 91.6 | |
| 443 | 15.0 - 24.0% of mass 442 | 17.9 | (19.5)2 |

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | STD5 240-50462/2 | 20711002.D | 07/11/2012 | 11:20 |
| | STD4 240-50462/3 | 20711003.D | 07/11/2012 | 11:39 |
| | STD3 240-50462/4 | 20711004.D | 07/11/2012 | 11:58 |
| | STD2 240-50462/5 | 20711005.D | 07/11/2012 | 12:17 |
| | STD1 240-50462/6 | 20711006.D | 07/11/2012 | 12:36 |
| | STD9 240-50462/7 | 20711007.D | 07/11/2012 | 12:55 |
| | STD8 240-50462/8 | 20711008.D | 07/11/2012 | 13:13 |
| | STD7 240-50462/9 | 20711009.D | 07/11/2012 | 13:32 |
| | STD6 240-50462/10 | 20711010.D | 07/11/2012 | 13:51 |
| | ICV 240-50462/11 | 20711011.D | 07/11/2012 | 14:10 |

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 50462

SDG No.:

Instrument ID: A4HP7 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2012 11:20 Calibration End Date: 07/11/2012 13:51 Calibration ID: 10087

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-50462/6 | 20711006.D |
| Level 2 | STD2 240-50462/5 | 20711005.D |
| Level 3 | STD3 240-50462/4 | 20711004.D |
| Level 4 | STD4 240-50462/3 | 20711003.D |
| Level 5 | STD5 240-50462/2 | 20711002.D |
| Level 6 | STD6 240-50462/10 | 20711010.D |
| Level 7 | STD7 240-50462/9 | 20711009.D |
| Level 8 | STD8 240-50462/8 | 20711008.D |
| Level 9 | STD9 240-50462/7 | 20711007.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1 LVL 6 | LVL 2 LVL 7 | LVL 3 LVL 8 | LVL 4 LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 1,4-Dioxane | 0.5236 | 0.6038 0.5559 | 0.6654 0.5765 | 0.5689 0.4823 | 0.5254 | Ave | | 0.5627 | | | | 9.9 | | 20.0 | | | |
| N-Nitrosodimethylamine | 0.8428 | 0.8244 0.8909 | 0.8912 0.8785 | 0.8764 0.9059 | 0.8570 | Ave | | 0.8709 | | | | 3.2 | | 20.0 | | | |
| Pyridine | 1.3920 | 1.2499 1.5306 | 1.2946 1.4699 | 1.4105 1.5233 | 1.3927 | Ave | | 1.4079 | | | | 7.1 | | 20.0 | | | |
| Malononitrile | 1.9137 | 1.7765 1.8549 | 1.9538 1.6758 | 1.9720 +++++ | 1.9538 | Ave | | 1.8715 | | | | 5.9 | | 20.0 | | | |
| Ethyl methacrylate | 1.1336 | 1.0811 1.1710 | 1.1129 1.0410 | 1.1221 1.2053 | 1.1009 | Ave | | 1.1210 | | | | 4.6 | | 20.0 | | | |
| 3-Chloropropionitrile | 1.3693 | 1.2141 1.4204 | 1.2759 1.3115 | 1.3765 1.2873 | 1.3426 | Ave | | 1.3247 | | | | 5.0 | | 20.0 | | | |
| Benzaldehyde | 1.4767 0.9864 | 1.6465 0.7080 | 1.2548 +++++ | 1.1765 +++++ | 1.1447 | Ave | | 1.1991 | | | 0.0100 | 26.0 | * | 20.0 | | | |
| Phenol | 1.7286 | 1.5557 1.8350 | 1.6370 1.7735 | 1.7005 1.8536 | 1.6876 | Ave | | 1.7214 | | | 0.8000 | 5.8 | | 20.0 | | | |
| Aniline | 2.3543 | 1.8614 2.2654 | 2.0894 2.2535 | 2.0818 2.3031 | 2.0695 | Ave | | 2.1598 | | | | 7.6 | | 20.0 | | | |
| Bis(2-chloroethyl)ether | 1.5890 | 1.5760 1.7230 | 1.5835 1.7469 | 1.5670 1.8101 | 1.6006 | Ave | | 1.6495 | | | 0.7000 | 5.8 | | 20.0 | | | |
| 2-Chlorophenol | 1.4860 | 1.3254 1.5064 | 1.3967 1.4953 | 1.4365 1.5662 | 1.4217 | Ave | | 1.4543 | | | 0.8000 | 5.1 | | 20.0 | | | |
| 1,3-Dichlorobenzene | 1.7429 | 1.6256 1.7585 | 1.7650 1.7529 | 1.6637 1.8063 | 1.6795 | Ave | | 1.7243 | | | | 3.5 | | 20.0 | | | |
| 1,4-Dichlorobenzene | 1.6137 | 1.5165 1.6475 | 1.5730 1.6152 | 1.5596 1.6625 | 1.5388 | Ave | | 1.5908 | | | | 3.3 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 50462

SDG No.:

Instrument ID: A4HP7 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2012 11:20 Calibration End Date: 07/11/2012 13:51 Calibration ID: 10087

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Benzyl alcohol | 0.8876 | 0.7046<br>0.9285 | 0.7754<br>0.9533 | 0.9437<br>0.9741 | 0.9081 | Ave | | 0.8844 | | | | 11.0 | | 20.0 | | | |
| 1,2-Dichlorobenzene | 1.6824 | 1.4869<br>1.6650 | 1.6119<br>1.6668 | 1.5753<br>1.7310 | 1.5932 | Ave | | 1.6266 | | | | 4.7 | | 20.0 | | | |
| 2-Methylphenol | 1.3146 | 1.0931<br>1.3400 | 1.2207<br>1.3551 | 1.2864<br>1.3961 | 1.2566 | Ave | | 1.2828 | | | 0.7000 | 7.4 | | 20.0 | | | |
| Benzoic acid | 0.2237 | +++++<br>0.2200 | 0.0894<br>0.2464 | 0.1525<br>0.2434 | 0.1967 | Qua | -0.283 | 0.2212 | 0.0006 | | | | | | 0.9980 | | 0.9900 |
| 2,2'-oxybis[1-chloropropane] | 3.0298 | 2.7963<br>3.0279 | 2.7815<br>3.0649 | 2.7753<br>3.1860 | 2.8219 | Ave | | 2.9354 | | | | 5.4 | | 20.0 | | | |
| 3 & 4 Methylphenol | 1.3718 | 1.2692<br>1.4150 | 1.3230<br>1.4423 | 1.3719<br>1.4909 | 1.3064 | Ave | | 1.3738 | | | | 5.4 | | 20.0 | | | |
| N-Nitrosodi-n-propylamine | 0.9736 | 0.8702<br>0.9585 | 0.8893<br>1.0163 | 0.9428<br>1.0486 | 0.9322 | Ave | | 0.9539 | | | 0.5000 | 6.3 | | 20.0 | | | |
| Acetophenone | 1.8548 | 1.5842<br>1.8729 | 1.7166<br>1.9261 | 1.7622<br>1.9900 | 1.7626 | Ave | | 1.8087 | | | 0.0100 | 7.1 | | 20.0 | | | |
| Hexachloroethane | 0.5890 | 0.5104<br>0.5991 | 0.5428<br>0.5982 | 0.5626<br>0.6045 | 0.5629 | Ave | | 0.5712 | | | 0.3000 | 5.8 | | 20.0 | | | |
| Nitrobenzene | 0.3792 | 0.3450<br>0.3915 | 0.3751<br>0.3946 | 0.3668<br>0.3972 | 0.3681 | Ave | | 0.3772 | | | 0.2000 | 4.6 | | 20.0 | | | |
| 2,4-Toluene diamine | 0.1861 | 0.2194<br>0.1358 | 0.2380<br>+++++ | 0.2352<br>+++++ | 0.1967 | Ave | | 0.2018 | | | | 19.0 | | 20.0 | | | |
| Isophorone | 0.6135 | 0.5498<br>0.6308 | 0.5931<br>0.6517 | 0.5714<br>0.6623 | 0.5853 | Ave | | 0.6072 | | | 0.4000 | 6.5 | | 20.0 | | | |
| 2,4-Dimethylphenol | 0.3306 | 0.3000<br>0.3425 | 0.3119<br>0.3454 | 0.3218<br>0.3495 | 0.3230 | Ave | | 0.3281 | | | 0.2000 | 5.3 | | 20.0 | | | |
| 2-Nitrophenol | 0.1991 | 0.1822<br>0.2102 | 0.1813<br>0.2104 | 0.1783<br>0.2116 | 0.1903 | Ave | | 0.1954 | | | 0.1000 | 7.3 | | 20.0 | | | |
| 1,3,5-Trichlorobenzene | 0.3225 | 0.3248<br>0.3339 | 0.3152<br>0.3384 | 0.3110<br>0.3363 | 0.3121 | Ave | | 0.3243 | | | | 3.4 | | 20.0 | | | |
| Bis(2-chloroethoxy)methane | 0.4288 | 0.3881<br>0.4415 | 0.4076<br>0.4569 | 0.4060<br>0.4582 | 0.4062 | Ave | | 0.4242 | | | 0.3000 | 6.2 | | 20.0 | | | |
| 2,4-Dichlorophenol | 0.2651 | 0.2463<br>0.2748 | 0.2502<br>0.2815 | 0.2566<br>0.2840 | 0.2564 | Ave | | 0.2644 | | | 0.2000 | 5.4 | | 20.0 | | | |
| 1,2,4-Trichlorobenzene | 0.3296 | 0.3170<br>0.3362 | 0.3171<br>0.3356 | 0.3193<br>0.3413 | 0.3091 | Ave | | 0.3257 | | | | 3.5 | | 20.0 | | | |
| Naphthalene | 1.1082<br>1.0089 | 0.9329<br>1.0478 | 0.9386<br>1.0434 | 0.9523<br>1.0887 | 0.9483 | Ave | | 1.0077 | | | 0.7000 | 6.7 | | 20.0 | | | |
| 4-Chloroaniline | 0.4187 | 0.3443<br>0.4837 | 0.4022<br>0.4893 | 0.4201<br>0.4987 | 0.4265 | Ave | | 0.4354 | | | 0.0100 | 12.0 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 50462

SDG No.:

Instrument ID: A4HP7 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2012 11:20 Calibration End Date: 07/11/2012 13:51 Calibration ID: 10087

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Hexachlorobutadiene | 0.1479 | 0.1449<br>0.1489 | 0.1436<br>0.1515 | 0.1395<br>0.1509 | 0.1401 | Ave | | 0.1459 | | | 0.0100 | 3.2 | | 20.0 | | | |
| 1,2,3-Trichlorobenzene | 0.3059 | 0.2948<br>0.3135 | 0.3054<br>0.3153 | 0.2916<br>0.3149 | 0.2901 | Ave | | 0.3039 | | | | 3.5 | | 20.0 | | | |
| Caprolactam | 0.1134 | 0.0792<br>0.1176 | 0.0913<br>0.1237 | 0.1085<br>0.1245 | 0.1064 | Ave | | 0.1081 | | | 0.0100 | 15.0 | | 20.0 | | | |
| 4-Chloro-3-methylphenol | 0.2780 | 0.2719<br>0.2844 | 0.2626<br>0.3024 | 0.2760<br>0.3065 | 0.2640 | Ave | | 0.2807 | | | 0.2000 | 5.8 | | 20.0 | | | |
| 2-Methylnaphthalene | 0.8495<br>0.6664 | 0.6465<br>0.6929 | 0.6261<br>0.7102 | 0.6109<br>0.7208 | 0.6427 | Ave | | 0.6851 | | | 0.4000 | 11.0 | | 20.0 | | | |
| 2,4-Dinitrophenol | 0.2065 | +++++<br>0.2340 | 0.1385<br>0.2403 | 0.1834<br>0.2449 | 0.1956 | Ave | | 0.2062 | | | 0.0100 | 18.0 | | 20.0 | | | |
| 1-Methylnaphthalene | 0.7413<br>0.6328 | 0.6210<br>0.6600 | 0.6146<br>0.6801 | 0.6149<br>0.6905 | 0.6061 | Ave | | 0.6513 | | | | 7.0 | | 20.0 | | | |
| 1,2,3,5-Tetrachlorobenzene | 0.5511 | 0.5289<br>0.5811 | 0.5248<br>0.5493 | 0.5109<br>0.5675 | 0.5150 | Ave | | 0.5411 | | | | 4.7 | | 20.0 | | | |
| Hexachlorocyclopentadiene | 0.3376 | 0.2973<br>0.3529 | 0.2376<br>0.3349 | 0.3035<br>0.3446 | 0.3261 | Ave | | 0.3168 | | | 0.0500 | 12.0 | | 20.0 | | | |
| 2,4,6-Trichlorophenol | 0.3422 | 0.3189<br>0.3539 | 0.3019<br>0.3578 | 0.3043<br>0.3595 | 0.3252 | Ave | | 0.3330 | | | 0.2000 | 7.1 | | 20.0 | | | |
| 2,4,5-Trichlorophenol | 0.3592 | 0.2714<br>0.3916 | 0.3503<br>0.3785 | 0.3662<br>0.3880 | 0.3541 | Ave | | 0.3574 | | | 0.2000 | 11.0 | | 20.0 | | | |
| 1,1'-Biphenyl | 1.6006<br>1.4906 | 1.3293<br>1.5415 | 1.3498<br>1.5377 | 1.4117<br>1.5681 | 1.3734 | Ave | | 1.4670 | | | 0.0100 | 7.0 | | 20.0 | | | |
| 1,2,3,4 -Tetrachlorobenzene | 0.5267 | 0.4985<br>0.5480 | 0.5229<br>0.5292 | 0.4951<br>0.5500 | 0.5043 | Ave | | 0.5218 | | | | 4.0 | | 20.0 | | | |
| 2-Chloronaphthalene | 1.3707<br>1.2649 | 1.1492<br>1.3251 | 1.2059<br>1.2923 | 1.1935<br>1.3235 | 1.1823 | Ave | | 1.2564 | | | 0.8000 | 6.1 | | 20.0 | | | |
| 4,6-Dinitro-2-methylphenol | 0.1619 | +++++<br>0.1730 | 0.1242<br>0.1756 | 0.1347<br>0.1788 | 0.1510 | Ave | | 0.1570 | | | 0.0100 | 14.0 | | 20.0 | | | |
| 2-Nitroaniline | 0.3826 | 0.3352<br>0.3918 | 0.3572<br>0.4028 | 0.3693<br>0.4079 | 0.3580 | Ave | | 0.3756 | | | 0.0100 | 6.7 | | 20.0 | | | |
| Dimethyl phthalate | 1.2575 | 1.1536<br>1.2914 | 1.1724<br>1.3053 | 1.1700<br>1.3139 | 1.1644 | Ave | | 1.2285 | | | 0.0100 | 5.7 | | 20.0 | | | |
| 2,6-Dinitrotoluene | 0.3365 | 0.2620<br>0.3543 | 0.3069<br>0.3604 | 0.2904<br>0.3708 | 0.3227 | Ave | | 0.3255 | | | | 12.0 | | 20.0 | | | |
| 1,2-Dinitrobenzene | 0.1716 | 0.1485<br>0.1803 | 0.1774<br>0.1798 | 0.1602<br>0.1799 | 0.1578 | Ave | | 0.1694 | | | | 7.3 | | 20.0 | | | |
| Acenaphthylene | 2.1236<br>1.8896 | 1.7649<br>1.9838 | 1.7523<br>2.0019 | 1.8092<br>2.0351 | 1.7657 | Ave | | 1.9029 | | | 0.9000 | 7.2 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 50462

SDG No.:

Instrument ID: A4HP7 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2012 11:20 Calibration End Date: 07/11/2012 13:51 Calibration ID: 10087

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1 LVL 6 | LVL 2 LVL 7 | LVL 3 LVL 8 | LVL 4 LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 3-Nitroaniline | 0.3544 | 0.3387 0.3775 | 0.3135 0.3748 | 0.3258 0.3857 | 0.3443 | Ave | | 0.3518 | | | 0.0100 | 7.4 | | 20.0 | | | |
| Acenaphthene | 1.2686 1.1487 | 1.0978 1.2054 | 1.0874 1.2001 | 1.1077 1.2164 | 1.0782 | Ave | | 1.1567 | | | 0.9000 | 5.9 | | 20.0 | | | |
| 4-Nitrophenol | 0.1369 | 0.1024 0.1604 | 0.0962 0.1605 | 0.1404 0.1638 | 0.1402 | Ave | | 0.1376 | | | | 19.0 | | 20.0 | | | |
| 2,4-Dinitrotoluene | 0.4359 | 0.3495 0.4589 | 0.3852 0.4657 | 0.4164 0.4682 | 0.4139 | Ave | | 0.4242 | | | 0.2000 | 9.9 | | 20.0 | | | |
| Dibenzofuran | 1.6990 1.5350 | 1.4119 1.6258 | 1.4954 1.6253 | 1.4410 1.6357 | 1.4476 | Ave | | 1.5463 | | | 0.8000 | 6.7 | | 20.0 | | | |
| 2,3,5,6-Tetrachlorophenol | 0.2800 | 0.2424 0.2936 | 0.2546 0.2954 | 0.2608 0.3027 | 0.2536 | Ave | | 0.2729 | | | | 8.4 | | 20.0 | | | |
| Diethyl phthalate | 1.2194 | 1.1255 1.2744 | 1.1821 1.2948 | 1.1326 1.3103 | 1.1380 | Ave | | 1.2097 | | | 0.0100 | 6.3 | | 20.0 | | | |
| 4-Chlorophenyl phenyl ether | 0.6530 | 0.5548 0.6757 | 0.5990 0.6743 | 0.6275 0.6969 | 0.5975 | Ave | | 0.6348 | | | 0.4000 | 7.7 | | 20.0 | | | |
| 4-Nitroaniline | 0.3638 | 0.2968 0.3904 | 0.3172 0.3877 | 0.3426 0.3926 | 0.3572 | Ave | | 0.3560 | | | 0.0100 | 10.0 | | 20.0 | | | |
| Fluorene | 1.5111 1.2963 | 1.1546 1.3714 | 1.2120 1.3819 | 1.2674 1.4019 | 1.2364 | Ave | | 1.3148 | | | 0.9000 | 8.5 | | 20.0 | | | |
| N-Nitrosodiphenylamine | 0.6570 | 0.6069 0.6640 | 0.5679 0.6653 | 0.5845 0.6837 | 0.5870 | Ave | | 0.6270 | | | 0.0100 | 7.2 | | 20.0 | | | |
| 1,2-Diphenylhydrazine(as Azobenzene) | 0.8219 | 0.7424 0.8451 | 0.7294 0.8462 | 0.7490 0.8631 | 0.7608 | Ave | | 0.7959 | | | | 6.7 | | 20.0 | | | |
| Azobenzene | 0.8219 | 0.7456 0.8451 | 0.7294 0.8466 | 0.7548 0.8631 | 0.7608 | Ave | | 0.7959 | | | | 6.7 | | 20.0 | | | |
| 4-Bromophenyl phenyl ether | 0.2173 | 0.1812 0.2176 | 0.2040 0.2170 | 0.2004 0.2231 | 0.2099 | Ave | | 0.2088 | | | 0.1000 | 6.5 | | 20.0 | | | |
| Hexachlorobenzene | 0.1940 0.1863 | 0.1792 0.1889 | 0.1644 0.1923 | 0.1760 0.1954 | 0.1714 | Ave | | 0.1831 | | | 0.1000 | 6.0 | | 20.0 | | | |
| Atrazine | 0.1836 | 0.1827 0.1709 | 0.1725 0.1726 | 0.1779 0.1646 | 0.1745 | Ave | | 0.1749 | | | 0.0100 | 3.6 | | 20.0 | | | |
| Pentachlorophenol | 0.1317 | 0.0963 0.1383 | 0.1043 0.1379 | 0.1210 0.1443 | 0.1272 | Ave | | 0.1251 | | | 0.0500 | 14.0 | | 20.0 | | | |
| Phenanthrene | 1.3269 1.1656 | 1.0822 1.2023 | 1.0646 1.2136 | 1.0385 1.2411 | 1.0949 | Ave | | 1.1588 | | | 0.7000 | 8.3 | | 20.0 | | | |
| Anthracene | 1.2679 1.2305 | 1.1050 1.2626 | 1.1071 1.2760 | 1.1434 1.3014 | 1.1489 | Ave | | 1.2048 | | | 0.7000 | 6.5 | | 20.0 | | | |
| Carbazole | 1.1386 | 1.0352 1.1892 | 1.1018 1.1888 | 1.0576 1.2136 | 1.0800 | Ave | | 1.1256 | | | 0.0100 | 5.9 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 50462

SDG No.:

Instrument ID: A4HP7 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2012 11:20 Calibration End Date: 07/11/2012 13:51 Calibration ID: 10087

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Di-n-butyl phthalate | 1.4260 | 1.2513<br>1.4546 | 1.2967<br>1.5232 | 1.3027<br>1.5561 | 1.3219 | Ave | | 1.3916 | | | 0.0100 | 8.2 | | 20.0 | | | |
| Fluoranthene | 1.2618<br>1.2036 | 1.0692<br>1.2519 | 1.0914<br>1.2835 | 1.0970<br>1.2990 | 1.1424 | Ave | | 1.1889 | | | 0.6000 | 7.6 | | 20.0 | | | |
| Benzidine | 0.8967 | 0.5991<br>0.9428 | 0.7101<br>0.9467 | 0.7877<br>0.8895 | 0.8398 | Ave | | 0.8265 | | | | 15.0 | | 20.0 | | | |
| Pyrene | 1.6234<br>1.5151 | 1.3757<br>1.5985 | 1.4248<br>1.5824 | 1.4359<br>1.5893 | 1.4430 | Ave | | 1.5098 | | | 0.6000 | 6.1 | | 20.0 | | | |
| Butyl benzyl phthalate | 0.7372 | 0.6604<br>0.7629 | 0.6972<br>0.7800 | 0.6791<br>0.7929 | 0.6888 | Ave | | 0.7248 | | | 0.0100 | 6.9 | | 20.0 | | | |
| 3,3'-Dimethoxybenzidine | 0.3657 | 0.2651<br>0.3719 | 0.3041<br>0.3966 | 0.3319<br>0.3815 | 0.3321 | Ave | | 0.3436 | | | | 13.0 | | 20.0 | | | |
| Bis(2-ethylhexyl) phthalate | 1.0437 | 0.9151<br>1.0853 | 0.9744<br>1.1236 | 0.9521<br>1.1225 | 0.9886 | Ave | | 1.0257 | | | 0.0100 | 7.8 | | 20.0 | | | |
| 4,4'-Methylene bis(2-chloroaniline) | 0.2421 | 0.2136<br>0.2557 | 0.2141<br>0.2542 | 0.2276<br>0.2535 | 0.2309 | Ave | | 0.2365 | | | | 7.4 | | 20.0 | | | |
| 3,3'-Dichlorobenzidine | 0.4949 | 0.4212<br>0.5193 | 0.4528<br>0.5194 | 0.4761<br>0.5175 | 0.4662 | Ave | | 0.4834 | | | 0.0100 | 7.4 | | 20.0 | | | |
| Benzo[a]anthracene | 1.5240<br>1.3002 | 1.2124<br>1.3706 | 1.2613<br>1.3909 | 1.2513<br>1.3514 | 1.2177 | Ave | | 1.3200 | | | 0.8000 | 7.6 | | 20.0 | | | |
| Chrysene | 1.3481<br>1.1927 | 1.0893<br>1.2523 | 1.1720<br>1.2548 | 1.1316<br>1.2695 | 1.1429 | Ave | | 1.2059 | | | 0.7000 | 6.8 | | 20.0 | | | |
| Di-n-octyl phthalate | 2.4641 | 1.9599<br>2.4614 | 2.0026<br>2.5046 | 2.1302<br>2.5585 | 2.1712 | Ave | | 2.2816 | | | 0.0100 | 11.0 | | 20.0 | | | |
| Benzo[b]fluoranthene | 1.8902<br>1.7336 | 1.5916<br>1.8030 | 1.5360<br>1.6714 | 1.4475<br>1.7032 | 1.4914 | Ave | | 1.6520 | | | 0.7000 | 8.9 | | 20.0 | | | |
| Benzo[k]fluoranthene | 1.9194<br>1.6731 | 1.5271<br>1.6156 | 1.5589<br>1.7461 | 1.6421<br>1.7582 | 1.5905 | Ave | | 1.6701 | | | 0.7000 | 7.3 | | 20.0 | | | |
| Benzo[a]pyrene | 1.7881<br>1.5540 | 1.3265<br>1.5863 | 1.3993<br>1.5679 | 1.4289<br>1.5916 | 1.4233 | Ave | | 1.5184 | | | 0.7000 | 9.1 | | 20.0 | | | |
| Indeno[1,2,3-cd]pyrene | 1.7216<br>1.6482 | 1.4481<br>1.6636 | 1.4774<br>1.6591 | 1.5081<br>1.6792 | 1.5123 | Ave | | 1.5909 | | | 0.5000 | 6.5 | | 20.0 | | | |
| Dibenzo(a,h)anthracene | 1.4163<br>1.3976 | 1.2084<br>1.4077 | 1.2692<br>1.4108 | 1.2797<br>1.4486 | 1.2776 | Ave | | 1.3462 | | | 0.4000 | 6.4 | | 20.0 | | | |
| Benzo[g,h,i]perylene | 1.3167<br>1.3610 | 1.1949<br>1.3838 | 1.2769<br>1.3688 | 1.2434<br>1.4020 | 1.2535 | Ave | | 1.3112 | | | 0.5000 | 5.5 | | 20.0 | | | |
| 2-Fluorophenol (Surr) | 1.3276 | 1.2657<br>1.3381 | 1.2857<br>1.3421 | 1.2753<br>1.3766 | 1.2655 | Ave | | 1.3096 | | | | 3.2 | | 20.0 | | | |
| Phenol-d5 (Surr) | 1.6639 | 1.5486<br>1.6909 | 1.5495<br>1.6865 | 1.5830<br>1.7453 | 1.5895 | Ave | | 1.6322 | | | | 4.5 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 50462

SDG No.:

Instrument ID: A4HP7 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2012 11:20 Calibration End Date: 07/11/2012 13:51 Calibration ID: 10087

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Nitrobenzene-d5 (Surr) | 0.4112<br>0.4054 | 0.3990<br>0.4136 | 0.3849<br>0.4086 | 0.3878<br>0.4175 | 0.3824 | Ave | | 0.4011 | | | | 3.3 | | 20.0 | | | |
| 2-Fluorobiphenyl (Surr) | 1.6989<br>1.4659 | 1.3875<br>1.5515 | 1.4089<br>1.5115 | 1.3907<br>1.5527 | 1.3930 | Ave | | 1.4845 | | | | 7.1 | | 20.0 | | | |
| 2,4,6-Tribromophenol (Surr) | <br>0.1225 | 0.0767<br>0.1284 | 0.1171<br>0.1350 | 0.1200<br>0.1340 | 0.1094 | Ave | | 0.1179 | | | | 16.0 | | 20.0 | | | |
| Terphenyl-d14 (Surr) | 1.0354<br>0.8691 | 0.7926<br>0.9065 | 0.8646<br>0.9086 | 0.8104<br>0.9178 | 0.8340 | Ave | | 0.8821 | | | | 8.2 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 50462

SDG No.:

Instrument ID: A4HP7 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2012 11:20 Calibration End Date: 07/11/2012 13:51 Calibration ID: 10087

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-50462/6 | 20711006.D |
| Level 2 | STD2 240-50462/5 | 20711005.D |
| Level 3 | STD3 240-50462/4 | 20711004.D |
| Level 4 | STD4 240-50462/3 | 20711003.D |
| Level 5 | STD5 240-50462/2 | 20711002.D |
| Level 6 | STD6 240-50462/10 | 20711010.D |
| Level 7 | STD7 240-50462/9 | 20711009.D |
| Level 8 | STD8 240-50462/8 | 20711008.D |
| Level 9 | STD9 240-50462/7 | 20711007.D |

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (NG/UL) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 |
| 1,4-Dioxane | DCB | Ave | 316577 | 18123<br>533161 | 42463<br>601080 | 65233<br>505185 | 155939 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| N-Nitrosodimethylamine | DCB | Ave | 509528 | 24745<br>854489 | 56872<br>916078 | 100504<br>948776 | 254366 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Pyridine | DCB | Ave | 841560 | 37518<br>1468015 | 82616<br>1532680 | 161741<br>1595458 | 413349 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Malononitrile | DCB | Ave | 1156974 | 53323<br>1779050 | 124683<br>1747360 | 226138<br>+++++ | 579902 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>+++++ | 5.00 |
| Ethyl methacrylate | DCB | Ave | 685332 | 32449<br>1123129 | 71023<br>1085526 | 128673<br>1262396 | 326748 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 3-Chloropropionitrile | DCB | Ave | 827819 | 36443<br>1362255 | 81421<br>1367551 | 157845<br>1348301 | 398484 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Benzaldehyde | DCB | Ave | 9219<br>596317 | 49422<br>679049 | 80076<br>+++++ | 134906<br>+++++ | 339743 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>+++++ | 2.00<br>+++++ | 5.00 |
| Phenol | DCB | Ave | 1045058 | 46695<br>1759951 | 104466<br>1849224 | 195001<br>1941363 | 500890 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Aniline | DCB | Ave | 1423305 | 55871<br>2172726 | 133334<br>2349828 | 238720<br>2412171 | 614238 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Bis(2-chloroethyl)ether | DCB | Ave | 960630 | 47306<br>1652470 | 101049<br>1821563 | 179691<br>1895814 | 475062 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 2-Chlorophenol | DCB | Ave | 898378 | 39783<br>1444745 | 89129<br>1559165 | 164725<br>1640441 | 421957 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 1,3-Dichlorobenzene | DCB | Ave | 1053694 | 48793<br>1686543 | 112632<br>1827787 | 190782<br>1891822 | 498471 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 1,4-Dichlorobenzene | DCB | Ave | 975575 | 45518<br>1580115 | 100380<br>1684257 | 178837<br>1741222 | 456709 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Benzyl alcohol | DCB | Ave | 536631 | 21150<br>890489 | 49484<br>994073 | 108215<br>1020276 | 269543 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 50462

SDG No.:

Instrument ID: A4HP7 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2012 11:20 Calibration End Date: 07/11/2012 13:51 Calibration ID: 10087

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (NG/UL) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 |
| 1,2-Dichlorobenzene | DCB | Ave | 1017116 | 44631<br>1596881 | 102863<br>1737978 | 180647<br>1812983 | 472855 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 2-Methylphenol | DCB | Ave | 794792 | 32811<br>1285166 | 77902<br>1412967 | 147510<br>1462242 | 372971 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Benzoic acid | NPT | Qua | 1128993 | +++++<br>1720409 | 45619<br>2133227 | 143606<br>2147481 | 480344 | 20.0 | +++++<br>30.0 | 2.00<br>40.0 | 4.00<br>50.0 | 10.0 |
| 2,2'-oxybis[1-chloropropane] | DCB | Ave | 1831718 | 83932<br>2903976 | 177501<br>3195813 | 318244<br>3336869 | 837566 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 3 & 4 Methylphenol | DCB | Ave | 829374 | 38097<br>1357090 | 84430<br>1503923 | 157316<br>1561558 | 387732 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| N-Nitrosodi-n-propylamine | DCB | Ave | 588597 | 26121<br>919283 | 56749<br>1059704 | 108118<br>1098252 | 276678 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Acetophenone | DCB | Ave | 1121344 | 47551<br>1796287 | 109547<br>2008345 | 202073<br>2084306 | 523143 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Hexachloroethane | DCB | Ave | 356104 | 15321<br>574563 | 34642<br>623710 | 64514<br>633142 | 167082 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Nitrobenzene | NPT | Ave | 956830 | 41712<br>1530771 | 95683<br>1708438 | 172635<br>1752139 | 449396 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 2,4-Toluene diamine | NPT | Ave | 469475 | 26524<br>530957 | 60701<br>+++++ | 110703<br>+++++ | 240087 | 10.0 | 0.500<br>15.0 | 1.00<br>+++++ | 2.00<br>+++++ | 5.00 |
| Isophorone | NPT | Ave | 1548156 | 66470<br>2466418 | 151282<br>2821503 | 268962<br>2921804 | 714478 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 2,4-Dimethylphenol | NPT | Ave | 834097 | 36267<br>1339135 | 79561<br>1495540 | 151484<br>1541691 | 394255 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 2-Nitrophenol | NPT | Ave | 502299 | 22026<br>822035 | 46237<br>910879 | 83922<br>933588 | 232288 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 1,3,5-Trichlorobenzene | NPT | Ave | 813861 | 39269<br>1305425 | 80410<br>1465088 | 146388<br>1483378 | 381046 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Bis(2-chloroethoxy)methane | NPT | Ave | 1081871 | 46923<br>1726178 | 103965<br>1978319 | 191112<br>2021347 | 495914 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 2,4-Dichlorophenol | NPT | Ave | 668915 | 29779<br>1074536 | 63832<br>1218674 | 120791<br>1252791 | 312969 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 1,2,4-Trichlorobenzene | NPT | Ave | 831764 | 38328<br>1314756 | 80887<br>1452970 | 150272<br>1505604 | 377347 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Naphthalene | NPT | Ave | 26980<br>2545685 | 112775<br>4097255 | 239421<br>4517524 | 448228<br>4802781 | 1157607 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 4-Chloroaniline | NPT | Ave | 1056584 | 41618<br>1891233 | 102589<br>2118477 | 197732<br>2199918 | 520681 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Hexachlorobutadiene | NPT | Ave | 373308 | 17512<br>582374 | 36632<br>655961 | 65669<br>665525 | 171001 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 1,2,3-Trichlorobenzene | NPT | Ave | 771853 | 35641<br>1225985 | 77892<br>1365069 | 137255<br>1389315 | 354185 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton  Job No.: 240-13043-1  Analy Batch No.: 50462

SDG No.:

Instrument ID: A4HP7  GC Column: RXI-5SILMS  ID: 0.45(mm)  Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2012 11:20  Calibration End Date: 07/11/2012 13:51  Calibration ID: 10087

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (NG/UL) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 |
| Caprolactam | NPT | Ave | 286106 | 9578<br>459898 | 23286<br>535633 | 51055<br>549343 | 129944 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 4-Chloro-3-methylphenol | NPT | Ave | 701449 | 32867<br>1112108 | 66979<br>1309121 | 129931<br>1352042 | 322324 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 2-Methylnaphthalene | NPT | Ave | 20682<br>1681401 | 78156<br>2709321 | 159693<br>3074897 | 287534<br>3179943 | 784635 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 2,4-Dinitrophenol | ANT | Ave | 554462 | +++++<br>962687 | 38520<br>1174373 | 92240<br>1191104 | 256748 | 20.0 | +++++<br>30.0 | 2.00<br>40.0 | 4.00<br>50.0 | 10.0 |
| 1-Methylnaphthalene | NPT | Ave | 18048<br>1596632 | 75073<br>2580721 | 156777<br>2944392 | 289429<br>3046144 | 739929 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 1,2,3,5-Tetrachlorobenzene | ANT | Ave | 739925 | 34380<br>1195310 | 72957<br>1342217 | 128481<br>1380184 | 337987 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Hexachlorocyclopentadiene | ANT | Ave | 453309 | 19325<br>725965 | 33035<br>818466 | 76331<br>838163 | 214004 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 2,4,6-Trichlorophenol | ANT | Ave | 459451 | 20728<br>728013 | 41968<br>874370 | 76520<br>874346 | 213469 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 2,4,5-Trichlorophenol | ANT | Ave | 482271 | 17643<br>805451 | 48699<br>924891 | 92086<br>943654 | 232389 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 1,1'-Biphenyl | ANT | Ave | 21073<br>2001372 | 86407<br>3170782 | 187666<br>3757715 | 355000<br>3813681 | 901380 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 1,2,3,4 -Tetrachlorobenzene | ANT | Ave | 707192 | 32404<br>1127202 | 72700<br>1293163 | 124499<br>1337660 | 330997 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 2-Chloronaphthalene | ANT | Ave | 18047<br>1698414 | 74696<br>2725603 | 167656<br>3158021 | 300130<br>3218922 | 775996 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 4,6-Dinitro-2-methylphenol | PHN | Ave | 324743 | +++++<br>542179 | 26018<br>666898 | 51309<br>667241 | 148792 | 10.0 | +++++<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 2-Nitroaniline | ANT | Ave | 513772 | 21790<br>805937 | 49657<br>984362 | 92859<br>992042 | 234940 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Dimethyl phthalate | ANT | Ave | 1688390 | 74984<br>2656242 | 162993<br>3189879 | 294205<br>3195591 | 764205 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 2,6-Dinitrotoluene | ANT | Ave | 451808 | 17032<br>728686 | 42664<br>880780 | 73036<br>901741 | 211789 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 1,2-Dinitrobenzene | ANT | Ave | 230359 | 9651<br>370862 | 24670<br>439382 | 40285<br>437517 | 103581 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Acenaphthylene | ANT | Ave | 27959<br>2537108 | 114718<br>4080487 | 243623<br>4892186 | 454945<br>4949607 | 1158900 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 3-Nitroaniline | ANT | Ave | 475787 | 22013<br>776438 | 43589<br>915857 | 81917<br>937959 | 225960 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Acenaphthene | ANT | Ave | 16703<br>1542365 | 71359<br>2479479 | 151181<br>2932670 | 278552<br>2958406 | 707679 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 4-Nitrophenol | ANT | Ave | 183859 | 6655<br>329849 | 13376<br>392144 | 35306<br>398290 | 91990 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 50462

SDG No.:

Instrument ID: A4HP7 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2012 11:20 Calibration End Date: 07/11/2012 13:51 Calibration ID: 10087

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (NG/UL) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 |
| 2,4-Dinitrotoluene | ANT | Ave | 585328 | 22720<br>943872 | 53551<br>1137933 | 104707<br>1138644 | 271630 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Dibenzofuran | ANT | Ave | 22369<br>2060952 | 91777<br>3344129 | 207896<br>3971734 | 362369<br>3978024 | 950129 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 2,3,5,6-Tetrachlorophenol | ANT | Ave | 376017 | 15753<br>604013 | 35403<br>721858 | 65585<br>736108 | 166467 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Diethyl phthalate | ANT | Ave | 1637257 | 73161<br>2621447 | 164352<br>3164125 | 284821<br>3186756 | 746884 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 4-Chlorophenyl phenyl ether | ANT | Ave | 876820 | 36065<br>1389870 | 83273<br>1647782 | 157805<br>1694820 | 392129 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 4-Nitroaniline | ANT | Ave | 488454 | 19292<br>802992 | 44094<br>947544 | 86141<br>954873 | 234462 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Fluorene | ANT | Ave | 19895<br>1740570 | 75050<br>2820920 | 168509<br>3377103 | 318709<br>3409563 | 811508 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| N-Nitrosodiphenylamine | PHN | Ave | 1317552 | 58739<br>2081499 | 118976<br>2526017 | 222668<br>2551821 | 578429 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 1,2-Diphenylhydrazine(as Azobenzene) | PHN | Ave | 1648187 | 71855<br>2649086 | 152813<br>3213160 | 285342<br>3221572 | 749680 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Azobenzene | PHN | Ave | 1648187 | 72162<br>2649086 | 152813<br>3214469 | 287539<br>3221572 | 749680 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 4-Bromophenyl phenyl ether | PHN | Ave | 435715 | 17535<br>682083 | 42743<br>823902 | 76343<br>832637 | 206798 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Hexachlorobenzene | PHN | Ave | 3852<br>373551 | 17347<br>592098 | 34434<br>730148 | 67056<br>729484 | 168892 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Atrazine | PHN | Ave | 368261 | 17684<br>535667 | 36137<br>655272 | 67786<br>614351 | 171946 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Pentachlorophenol | PHN | Ave | 528375 | 18648<br>867352 | 43688<br>1046994 | 92214<br>1077295 | 250674 | 20.0 | 1.00<br>30.0 | 2.00<br>40.0 | 4.00<br>50.0 | 10.0 |
| Phenanthrene | PHN | Ave | 26340<br>2337482 | 104742<br>3768773 | 223019<br>4607936 | 395627<br>4632430 | 1078850 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Anthracene | PHN | Ave | 25170<br>2467582 | 106955<br>3957988 | 231925<br>4844879 | 435565<br>4857509 | 1132036 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Carbazole | PHN | Ave | 2283335 | 100193<br>3727672 | 230810<br>4514001 | 402894<br>4529698 | 1064171 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Di-n-butyl phthalate | PHN | Ave | 2859531 | 121111<br>4559835 | 271647<br>5783345 | 496261<br>5808339 | 1302485 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Fluoranthene | PHN | Ave | 25048<br>2413589 | 103486<br>3924332 | 228642<br>4873242 | 417898<br>4848772 | 1125598 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Benzidine | CRY | Ave | 1473808 | 47441<br>2386323 | 117686<br>2991250 | 242125<br>2800910 | 675274 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Pyrene | CRY | Ave | 25807<br>2490234 | 108937<br>4046144 | 236152<br>4999849 | 441357<br>5004564 | 1160284 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 50462

SDG No.:

Instrument ID: A4HP7 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2012 11:20 Calibration End Date: 07/11/2012 13:51 Calibration ID: 10087

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (NG/UL) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 |
| Butyl benzyl phthalate | CRY | Ave | 1211715 | 52297<br>1931058 | 115549<br>2464431 | 208723<br>2496753 | 553819 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 3,3'-Dimethoxybenzidine | CRY | Ave | 600999 | 20994<br>941460 | 50405<br>1253260 | 102017<br>1201334 | 267059 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Bis(2-ethylhexyl) phthalate | CRY | Ave | 1715458 | 72464<br>2747131 | 161494<br>3550103 | 292654<br>3534562 | 794930 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 4,4'-Methylene bis(2-chloroaniline) | CRY | Ave | 397892 | 16911<br>647187 | 35490<br>803199 | 69955<br>798383 | 185672 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 3,3'-Dichlorobenzidine | CRY | Ave | 813409 | 33353<br>1314457 | 75049<br>1641220 | 146336<br>1629506 | 374829 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Benzo[a]anthracene | CRY | Ave | 24226<br>2136911 | 96006<br>3469167 | 209056<br>4394890 | 384626<br>4255378 | 979138 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Chrysene | CRY | Ave | 21430<br>1960286 | 86257<br>3169888 | 194258<br>3964620 | 347815<br>3997752 | 919005 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Di-n-octyl phthalate | PRY | Ave | 2947870 | 113933<br>4731386 | 258998<br>6056399 | 495613<br>6072612 | 1335249 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Benzo[b]fluoranthene | PRY | Ave | 22954<br>2073879 | 92527<br>3465745 | 198652<br>4041645 | 336779<br>4042530 | 917231 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Benzo[k]fluoranthene | PRY | Ave | 23309<br>2001608 | 88777<br>3105528 | 201621<br>4222381 | 382053<br>4172952 | 978169 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Benzo[a]pyrene | PRY | Ave | 21714<br>1859045 | 77116<br>3049240 | 180976<br>3791378 | 332459<br>3777568 | 875348 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Indeno[1,2,3-cd]pyrene | PRY | Ave | 20907<br>1971792 | 84184<br>3197800 | 191079<br>4012006 | 350885<br>3985486 | 930033 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Dibenzo(a,h)anthracene | PRY | Ave | 17199<br>1671980 | 70249<br>2706010 | 164146<br>3411553 | 297734<br>3438151 | 785688 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Benzo[g,h,i]perylene | PRY | Ave | 15990<br>1628220 | 69462<br>2660034 | 165145<br>3309884 | 289289<br>3327506 | 770920 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 2-Fluorophenol (Surr) | DCB | Ave | 802640 | 37991<br>1283378 | 82049<br>1399414 | 146242<br>1441851 | 375604 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Phenol-d5 (Surr) | DCB | Ave | 1005917 | 46482<br>1621687 | 98884<br>1758603 | 181527<br>1827996 | 471783 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Nitrobenzene-d5 (Surr) | NPT | Ave | 10011<br>1022972 | 48241<br>1617152 | 98176<br>1768980 | 182532<br>1841619 | 466763 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 2-Fluorobiphenyl (Surr) | ANT | Ave | 22368<br>1968261 | 90188<br>3191443 | 195876<br>3693619 | 349710<br>3776335 | 914278 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 2,4,6-Tribromophenol (Surr) | ANT | Ave | 164420 | 4987<br>264199 | 16279<br>329989 | 30179<br>326017 | 71804 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Terphenyl-d14 (Surr) | CRY | Ave | 16459<br>1428362 | 62765<br>2294438 | 143303<br>2870816 | 249081<br>2890153 | 670580 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 50462

SDG No.:

Instrument ID: A4HP7 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2012 11:20 Calibration End Date: 07/11/2012 13:51 Calibration ID: 10087

Curve Type Legend:

| |
|---|
| Ave = Average ISTD |
| Qua = Quadratic ISTD |

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Lab Sample ID: ICV 240-50462/11 Calibration Date: 07/11/2012 14:10

Instrument ID: A4HP7 Calib Start Date: 07/11/2012 11:20

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 07/11/2012 13:51

Lab File ID: 20711011.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | Ave | 0.5627 | 0.4958 | | 8.81 | 10.0 | -11.9 | 30.0 |
| N-Nitrosodimethylamine | Ave | 0.8709 | 0.8158 | | 9.37 | 10.0 | -6.3 | 30.0 |
| Pyridine | Ave | 1.408 | 1.372 | | 9.74 | 10.0 | -2.6 | 30.0 |
| Ethyl methacrylate | Ave | 1.121 | 1.086 | | 9.69 | 10.0 | -3.1 | 30.0 |
| 3-Chloropropionitrile | Ave | 1.325 | 1.328 | | 10.0 | 10.0 | 0.3 | 30.0 |
| Malononitrile | Ave | 1.872 | 1.897 | | 10.1 | 10.0 | 1.3 | 30.0 |
| Benzaldehyde | Ave | 1.199 | 0.9738 | 0.0100 | 8.12 | 10.0 | -18.8 | 30.0 |
| Phenol | Ave | 1.721 | 1.710 | 0.8000 | 9.93 | 10.0 | -0.7 | 30.0 |
| Aniline | Ave | 2.160 | 2.312 | | 10.7 | 10.0 | 7.1 | 30.0 |
| Bis(2-chloroethyl)ether | Ave | 1.650 | 1.594 | 0.7000 | 9.66 | 10.0 | -3.4 | 30.0 |
| 2-Chlorophenol | Ave | 1.454 | 1.473 | 0.8000 | 10.1 | 10.0 | 1.3 | 30.0 |
| 1,3-Dichlorobenzene | Ave | 1.724 | 1.728 | | 10.0 | 10.0 | 0.2 | 30.0 |
| 1,4-Dichlorobenzene | Ave | 1.591 | 1.590 | | 10.0 | 10.0 | -0.0 | 30.0 |
| Benzyl alcohol | Ave | 0.8844 | 0.8964 | | 10.1 | 10.0 | 1.4 | 30.0 |
| 1,2-Dichlorobenzene | Ave | 1.627 | 1.650 | | 10.1 | 10.0 | 1.4 | 30.0 |
| 2-Methylphenol | Ave | 1.283 | 1.308 | 0.7000 | 10.2 | 10.0 | 1.9 | 30.0 |
| 2,2'-oxybis[1-chloropropane] | Ave | 2.935 | 2.936 | | 10.0 | 10.0 | 0.0 | 30.0 |
| 3 & 4 Methylphenol | Ave | 1.374 | 1.388 | | 10.1 | 10.0 | 1.0 | 30.0 |
| N-Nitrosodi-n-propylamine | Ave | 0.9539 | 0.9603 | 0.5000 | 10.1 | 10.0 | 0.7 | 30.0 |
| Acetophenone | Ave | 1.809 | 1.816 | 0.0100 | 10.0 | 10.0 | 0.4 | 30.0 |
| Hexachloroethane | Ave | 0.5712 | 0.5858 | 0.3000 | 10.3 | 10.0 | 2.6 | 30.0 |
| Nitrobenzene | Ave | 0.3772 | 0.3933 | 0.2000 | 10.4 | 10.0 | 4.3 | 30.0 |
| Isophorone | Ave | 0.6072 | 0.6396 | 0.4000 | 10.5 | 10.0 | 5.3 | 30.0 |
| 2,4-Dimethylphenol | Ave | 0.3281 | 0.3462 | 0.2000 | 10.6 | 10.0 | 5.5 | 30.0 |
| 2-Nitrophenol | Ave | 0.1954 | 0.2093 | 0.1000 | 10.7 | 10.0 | 7.1 | 30.0 |
| 1,3,5-Trichlorobenzene | Ave | 0.3243 | 0.3354 | | 10.3 | 10.0 | 3.4 | 30.0 |
| Bis(2-chloroethoxy)methane | Ave | 0.4242 | 0.4492 | 0.3000 | 10.6 | 10.0 | 5.9 | 30.0 |
| Benzoic acid | Qua | | 0.2407 | | 21.8 | 20.0 | 9.0 | 30.0 |
| 2,4-Dichlorophenol | Ave | 0.2644 | 0.2750 | 0.2000 | 10.4 | 10.0 | 4.0 | 30.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.3257 | 0.3370 | | 10.3 | 10.0 | 3.5 | 30.0 |
| Naphthalene | Ave | 1.008 | 1.031 | 0.7000 | 10.2 | 10.0 | 2.3 | 30.0 |
| 4-Chloroaniline | Ave | 0.4354 | 0.4678 | 0.0100 | 10.7 | 10.0 | 7.4 | 30.0 |
| Hexachlorobutadiene | Ave | 0.1459 | 0.1533 | 0.0100 | 10.5 | 10.0 | 5.1 | 30.0 |
| 1,2,3-Trichlorobenzene | Ave | 0.3039 | 0.3133 | | 10.3 | 10.0 | 3.1 | 30.0 |
| Caprolactam | Ave | 0.1081 | 0.1222 | 0.0100 | 11.3 | 10.0 | 13.0 | 30.0 |
| 4-Chloro-3-methylphenol | Ave | 0.2807 | 0.2918 | 0.2000 | 10.4 | 10.0 | 3.9 | 30.0 |
| 2-Methylnaphthalene | Ave | 0.6851 | 0.7028 | 0.4000 | 10.3 | 10.0 | 2.6 | 30.0 |
| 1-Methylnaphthalene | Ave | 0.6513 | 0.6608 | | 10.1 | 10.0 | 1.5 | 30.0 |
| 1,2,3,5-Tetrachlorobenzene | Ave | 0.5411 | 0.5587 | | 10.3 | 10.0 | 3.3 | 30.0 |
| Hexachlorocyclopentadiene | Ave | 0.3168 | 0.3336 | 0.0500 | 10.5 | 10.0 | 5.3 | 30.0 |
| 2,4,6-Trichlorophenol | Ave | 0.3330 | 0.3515 | 0.2000 | 10.6 | 10.0 | 5.6 | 30.0 |

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Lab Sample ID: ICV 240-50462/11 Calibration Date: 07/11/2012 14:10

Instrument ID: A4HP7 Calib Start Date: 07/11/2012 11:20

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 07/11/2012 13:51

Lab File ID: 20711011.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 2,4,5-Trichlorophenol | Ave | 0.3574 | 0.3761 | 0.2000 | 10.5 | 10.0 | 5.2 | 30.0 |
| 2,4-Toluene diamine | Ave | 0.2018 | 0.1955 | | 9.69 | 10.0 | -3.1 | 30.0 |
| 1,1'-Biphenyl | Ave | 1.467 | 1.503 | 0.0100 | 10.2 | 10.0 | 2.5 | 30.0 |
| 1,2,3,4 -Tetrachlorobenzene | Ave | 0.5218 | 0.5405 | | 10.4 | 10.0 | 3.6 | 30.0 |
| 2-Chloronaphthalene | Ave | 1.256 | 1.295 | 0.8000 | 10.3 | 10.0 | 3.1 | 30.0 |
| 2-Nitroaniline | Ave | 0.3756 | 0.4013 | 0.0100 | 10.7 | 10.0 | 6.8 | 30.0 |
| Dimethyl phthalate | Ave | 1.229 | 1.310 | 0.0100 | 10.7 | 10.0 | 6.6 | 30.0 |
| 2,6-Dinitrotoluene | Ave | 0.3255 | 0.3615 | | 11.1 | 10.0 | 11.1 | 30.0 |
| 1,2-Dinitrobenzene | Ave | 0.1694 | 0.1828 | | 10.8 | 10.0 | 7.9 | 30.0 |
| Acenaphthylene | Ave | 1.903 | 1.974 | 0.9000 | 10.4 | 10.0 | 3.7 | 30.0 |
| 3-Nitroaniline | Ave | 0.3518 | 0.3858 | 0.0100 | 11.0 | 10.0 | 9.7 | 30.0 |
| 2,4-Dinitrophenol | Ave | 0.2062 | 0.2186 | 0.0100 | 21.2 | 20.0 | 6.0 | 30.0 |
| Acenaphthene | Ave | 1.157 | 1.180 | 0.9000 | 10.2 | 10.0 | 2.0 | 30.0 |
| 4-Nitrophenol | Ave | 0.1376 | 0.1497 | | 10.9 | 10.0 | 8.8 | 30.0 |
| 2,4-Dinitrotoluene | Ave | 0.4242 | 0.4876 | 0.2000 | 11.5 | 10.0 | 14.9 | 30.0 |
| Dibenzofuran | Ave | 1.546 | 1.631 | 0.8000 | 10.5 | 10.0 | 5.5 | 30.0 |
| 2,3,5,6-Tetrachlorophenol | Ave | 0.2729 | 0.2905 | | 10.6 | 10.0 | 6.4 | 30.0 |
| Diethyl phthalate | Ave | 1.210 | 1.313 | 0.0100 | 10.9 | 10.0 | 8.5 | 30.0 |
| 4-Chlorophenyl phenyl ether | Ave | 0.6348 | 0.6860 | 0.4000 | 10.8 | 10.0 | 8.1 | 30.0 |
| 4-Nitroaniline | Ave | 0.3560 | 0.3983 | 0.0100 | 11.2 | 10.0 | 11.9 | 30.0 |
| Fluorene | Ave | 1.315 | 1.373 | 0.9000 | 10.4 | 10.0 | 4.4 | 30.0 |
| 4,6-Dinitro-2-methylphenol | Ave | 0.1570 | 0.1640 | 0.0100 | 10.4 | 10.0 | 4.5 | 30.0 |
| N-Nitrosodiphenylamine | Ave | 0.6270 | 0.6630 | 0.0100 | 10.6 | 10.0 | 5.7 | 30.0 |
| 1,2-Diphenylhydrazine(as Azobenzene) | Ave | 0.7959 | 0.8241 | | 10.4 | 10.0 | 3.5 | 30.0 |
| Azobenzene | Ave | 0.7959 | 0.8246 | | 10.4 | 10.0 | 3.6 | 30.0 |
| 4-Bromophenyl phenyl ether | Ave | 0.2088 | 0.2137 | 0.1000 | 10.2 | 10.0 | 2.4 | 30.0 |
| Hexachlorobenzene | Ave | 0.1831 | 0.1872 | 0.1000 | 10.2 | 10.0 | 2.2 | 30.0 |
| Atrazine | Ave | 0.1749 | 0.1799 | 0.0100 | 10.3 | 10.0 | 2.8 | 30.0 |
| Pentachlorophenol | Ave | 0.1251 | 0.1345 | 0.0500 | 21.5 | 20.0 | 7.5 | 30.0 |
| Phenanthrene | Ave | 1.159 | 1.202 | 0.7000 | 10.4 | 10.0 | 3.7 | 30.0 |
| Anthracene | Ave | 1.205 | 1.265 | 0.7000 | 10.5 | 10.0 | 5.0 | 30.0 |
| Carbazole | Ave | 1.126 | 1.196 | 0.0100 | 10.6 | 10.0 | 6.2 | 30.0 |
| Di-n-butyl phthalate | Ave | 1.392 | 1.485 | 0.0100 | 10.7 | 10.0 | 6.7 | 30.0 |
| Fluoranthene | Ave | 1.189 | 1.262 | 0.6000 | 10.6 | 10.0 | 6.2 | 30.0 |
| Benzidine | Ave | 0.8265 | 0.9151 | | 11.1 | 10.0 | 10.7 | 30.0 |
| Pyrene | Ave | 1.510 | 1.555 | 0.6000 | 10.3 | 10.0 | 3.0 | 30.0 |
| Butyl benzyl phthalate | Ave | 0.7248 | 0.7620 | 0.0100 | 10.5 | 10.0 | 5.1 | 30.0 |
| 3,3'-Dimethoxybenzidine | Ave | 0.3436 | 0.3801 | | 11.1 | 10.0 | 10.6 | 30.0 |
| Bis(2-ethylhexyl) phthalate | Ave | 1.026 | 1.065 | 0.0100 | 10.4 | 10.0 | 3.8 | 30.0 |
| 4,4'-Methylene bis(2-chloroaniline) | Ave | 0.2365 | 0.2471 | | 10.5 | 10.0 | 4.5 | 30.0 |

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Lab Sample ID: ICV 240-50462/11 Calibration Date: 07/11/2012 14:10

Instrument ID: A4HP7 Calib Start Date: 07/11/2012 11:20

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 07/11/2012 13:51

Lab File ID: 20711011.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 3,3'-Dichlorobenzidine | Ave | 0.4834 | 0.5152 | 0.0100 | 10.7 | 10.0 | 6.6 | 30.0 |
| Benzo[a]anthracene | Ave | 1.320 | 1.359 | 0.8000 | 10.3 | 10.0 | 2.9 | 30.0 |
| Chrysene | Ave | 1.206 | 1.219 | 0.7000 | 10.1 | 10.0 | 1.1 | 30.0 |
| Di-n-octyl phthalate | Ave | 2.282 | 2.390 | 0.0100 | 10.5 | 10.0 | 4.8 | 30.0 |
| Benzo[b]fluoranthene | Ave | 1.652 | 1.612 | 0.7000 | 9.76 | 10.0 | -2.4 | 30.0 |
| Benzo[k]fluoranthene | Ave | 1.670 | 1.739 | 0.7000 | 10.4 | 10.0 | 4.1 | 30.0 |
| Benzo[a]pyrene | Ave | 1.518 | 1.540 | 0.7000 | 10.1 | 10.0 | 1.4 | 30.0 |
| Indeno[1,2,3-cd]pyrene | Ave | 1.591 | 1.611 | 0.5000 | 10.1 | 10.0 | 1.3 | 30.0 |
| Dibenzo(a,h)anthracene | Ave | 1.346 | 1.388 | 0.4000 | 10.3 | 10.0 | 3.1 | 30.0 |
| Benzo[g,h,i]perylene | Ave | 1.311 | 1.321 | 0.5000 | 10.1 | 10.0 | 0.7 | 30.0 |
| 2-Fluorophenol (Surr) | Ave | 1.310 | 1.317 | | 10.1 | 10.0 | 0.5 | 30.0 |
| Phenol-d5 (Surr) | Ave | 1.632 | 1.625 | | 9.96 | 10.0 | -0.4 | 30.0 |
| Nitrobenzene-d5 (Surr) | Ave | 0.4011 | 0.4149 | | 10.3 | 10.0 | 3.4 | 30.0 |
| 2-Fluorobiphenyl (Surr) | Ave | 1.485 | 1.491 | | 10.0 | 10.0 | 0.4 | 30.0 |
| 2,4,6-Tribromophenol (Surr) | Ave | 0.1179 | 0.1319 | | 11.2 | 10.0 | 11.9 | 30.0 |
| Terphenyl-d14 (Surr) | Ave | 0.8821 | 0.9013 | | 10.2 | 10.0 | 2.2 | 30.0 |

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Lab File ID: 20720001.D DFTPP Injection Date: 07/20/2012

Instrument ID: A4HP7 DFTPP Injection Time: 09:26

Analysis Batch No.: 51476

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 51 | 30.0- 80.0% of mass 198 | 79.0 | |
| 68 | Less than 2.0% of mass 69 | 0.0 | (0.0)1 |
| 69 | Mass 69 relative abundance | 53.7 | |
| 70 | Less than 2.0% of mass 69 | 0.4 | (0.7)1 |
| 127 | 25.0 - 75.0% of mass 198 | 61.0 | |
| 197 | Less than 1.0% of mass 198 | 0.0 | |
| 198 | Base Peak, 100% relative abundance | 100.0 | |
| 199 | 5.0 to 9.0% of mass 198 | 6.3 | |
| 275 | 10.0- 30.0% of mass 198 | 24.5 | |
| 365 | Greater than 0.75% of mass 198 | 2.4 | |
| 441 | Present, but less than mass 443 | 11.1 | |
| 442 | 40.0 - 110.0% of mass 198 | 68.8 | |
| 443 | 15.0 - 24.0% of mass 442 | 13.8 | (20.1)2 |

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | CCV 240-51476/2 | 20720002.D | 07/20/2012 | 09:45 |
| | MB 240-51193/23-A | 20720004.D | 07/20/2012 | 10:27 |
| | LCS 240-51193/24-A | 20720005.D | 07/20/2012 | 10:46 |
| MT-SS19-8-10 | 240-13043-3 | 20720015.D | 07/20/2012 | 13:56 |
| MT-SS20-0-2 | 240-13043-4 | 20720016.D | 07/20/2012 | 14:15 |
| MT-SS21-0-2 | 240-13043-6 | 20720017.D | 07/20/2012 | 14:34 |
| MT-SS21-8-10 | 240-13043-7 | 20720018.D | 07/20/2012 | 14:53 |
| MT-SS20-8-10 | 240-13043-5 | 20720019.D | 07/20/2012 | 15:12 |

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Lab Sample ID: CCV 240-51476/2 Calibration Date: 07/20/2012 09:45

Instrument ID: A4HP7 Calib Start Date: 07/11/2012 11:20

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 07/11/2012 13:51

Lab File ID: 20720002.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | Ave | 0.5627 | 0.6275 | | 11.2 | 10.0 | 11.5 | 20.0 |
| N-Nitrosodimethylamine | Ave | 0.8709 | 0.9341 | | 10.7 | 10.0 | 7.3 | 20.0 |
| Pyridine | Ave | 1.408 | 1.618 | | 11.5 | 10.0 | 14.9 | 20.0 |
| Ethyl methacrylate | Ave | 1.121 | 1.270 | | 11.3 | 10.0 | 13.3 | 20.0 |
| 3-Chloropropionitrile | Ave | 1.325 | 1.487 | | 11.2 | 10.0 | 12.3 | 20.0 |
| Malononitrile | Ave | 1.872 | 2.123 | | 11.3 | 10.0 | 13.5 | 20.0 |
| Benzaldehyde | Ave | 1.199 | 1.090 | 0.0100 | | 10.0 | -9.1 | 20.0 |
| Phenol | Ave | 1.721 | 1.828 | 0.8000 | 10.6 | 10.0 | 6.2 | 20.0 |
| Aniline | Ave | 2.160 | 2.394 | | 11.1 | 10.0 | 10.8 | 20.0 |
| Bis(2-chloroethyl)ether | Ave | 1.650 | 1.710 | 0.7000 | 10.4 | 10.0 | 3.7 | 20.0 |
| 2-Chlorophenol | Ave | 1.454 | 1.509 | 0.8000 | 10.4 | 10.0 | 3.8 | 20.0 |
| 1,3-Dichlorobenzene | Ave | 1.724 | 1.812 | | 10.5 | 10.0 | 5.1 | 20.0 |
| 1,4-Dichlorobenzene | Ave | 1.591 | 1.667 | | 10.5 | 10.0 | 4.8 | 20.0 |
| Benzyl alcohol | Ave | 0.8844 | 0.8397 | | 9.49 | 10.0 | -5.1 | 20.0 |
| 1,2-Dichlorobenzene | Ave | 1.627 | 1.712 | | 10.5 | 10.0 | 5.3 | 20.0 |
| 2-Methylphenol | Ave | 1.283 | 1.387 | 0.7000 | 10.8 | 10.0 | 8.1 | 20.0 |
| 2,2'-oxybis[1-chloropropane] | Ave | 2.935 | 3.243 | | 11.0 | 10.0 | 10.5 | 20.0 |
| 3 & 4 Methylphenol | Ave | 1.374 | 1.402 | | 10.2 | 10.0 | 2.0 | 20.0 |
| N-Nitrosodi-n-propylamine | Ave | 0.9539 | 1.006 | 0.5000 | 10.5 | 10.0 | 5.5 | 20.0 |
| Acetophenone | Ave | 1.809 | 1.918 | 0.0100 | 10.6 | 10.0 | 6.0 | 20.0 |
| Hexachloroethane | Ave | 0.5712 | 0.6227 | 0.3000 | 10.9 | 10.0 | 9.0 | 20.0 |
| Nitrobenzene | Ave | 0.3772 | 0.4095 | 0.2000 | 10.9 | 10.0 | 8.6 | 20.0 |
| Isophorone | Ave | 0.6072 | 0.6442 | 0.4000 | 10.6 | 10.0 | 6.1 | 20.0 |
| 2,4-Dimethylphenol | Ave | 0.3281 | 0.3565 | 0.2000 | 10.9 | 10.0 | 8.7 | 20.0 |
| 2-Nitrophenol | Ave | 0.1954 | 0.2138 | 0.1000 | 10.9 | 10.0 | 9.4 | 20.0 |
| 1,3,5-Trichlorobenzene | Ave | 0.3243 | 0.3471 | | 10.7 | 10.0 | 7.0 | 20.0 |
| Benzoic acid | Qua | | 0.1833 | | 17.1 | 20.0 | -14.5 | 20.0 |
| Bis(2-chloroethoxy)methane | Ave | 0.4242 | 0.4605 | 0.3000 | 10.9 | 10.0 | 8.6 | 20.0 |
| 2,4-Dichlorophenol | Ave | 0.2644 | 0.2759 | 0.2000 | 10.4 | 10.0 | 4.4 | 20.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.3257 | 0.3363 | | 10.3 | 10.0 | 3.3 | 20.0 |
| Naphthalene | Ave | 1.008 | 1.055 | 0.7000 | 10.5 | 10.0 | 4.7 | 20.0 |
| 4-Chloroaniline | Ave | 0.4354 | 0.4636 | 0.0100 | 10.6 | 10.0 | 6.5 | 20.0 |
| Hexachlorobutadiene | Ave | 0.1459 | 0.1471 | 0.0100 | 10.1 | 10.0 | 0.8 | 20.0 |
| 1,2,3-Trichlorobenzene | Ave | 0.3039 | 0.3141 | | 10.3 | 10.0 | 3.4 | 20.0 |
| Caprolactam | Ave | 0.1081 | 0.1223 | 0.0100 | 11.3 | 10.0 | 13.1 | 20.0 |
| 4-Chloro-3-methylphenol | Ave | 0.2807 | 0.2946 | 0.2000 | 10.5 | 10.0 | 4.9 | 20.0 |
| 2-Methylnaphthalene | Ave | 0.6851 | 0.6803 | 0.4000 | 9.93 | 10.0 | -0.7 | 20.0 |
| 1-Methylnaphthalene | Ave | 0.6513 | 0.6568 | | 10.1 | 10.0 | 0.9 | 20.0 |
| 1,2,3,5-Tetrachlorobenzene | Ave | 0.5411 | 0.5603 | | 10.4 | 10.0 | 3.5 | 20.0 |
| Hexachlorocyclopentadiene | Ave | 0.3168 | 0.3154 | 0.0500 | 9.96 | 10.0 | -0.4 | 20.0 |
| 2,4,6-Trichlorophenol | Ave | 0.3330 | 0.3370 | 0.2000 | 10.1 | 10.0 | 1.2 | 20.0 |

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Lab Sample ID: CCV 240-51476/2  Calibration Date: 07/20/2012 09:45

Instrument ID: A4HP7  Calib Start Date: 07/11/2012 11:20

GC Column: RXI-5SILMS  ID: 0.45(mm)  Calib End Date: 07/11/2012 13:51

Lab File ID: 20720002.D  Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 2,4,5-Trichlorophenol | Ave | 0.3574 | 0.3511 | 0.2000 | 9.82 | 10.0 | -1.8 | 20.0 |
| 1,1'-Biphenyl | Ave | 1.467 | 1.512 | 0.0100 | 10.3 | 10.0 | 3.1 | 20.0 |
| 1,2,3,4 -Tetrachlorobenzene | Ave | 0.5218 | 0.5320 | | 10.2 | 10.0 | 2.0 | 20.0 |
| 2-Chloronaphthalene | Ave | 1.256 | 1.288 | 0.8000 | 10.3 | 10.0 | 2.5 | 20.0 |
| 2-Nitroaniline | Ave | 0.3756 | 0.3976 | 0.0100 | 10.6 | 10.0 | 5.9 | 20.0 |
| Dimethyl phthalate | Ave | 1.229 | 1.232 | 0.0100 | 10.0 | 10.0 | 0.3 | 20.0 |
| 2,6-Dinitrotoluene | Ave | 0.3255 | 0.3370 | | 10.4 | 10.0 | 3.5 | 20.0 |
| 1,2-Dinitrobenzene | Ave | 0.1694 | 0.1721 | | 10.2 | 10.0 | 1.6 | 20.0 |
| Acenaphthylene | Ave | 1.903 | 1.949 | 0.9000 | 10.2 | 10.0 | 2.4 | 20.0 |
| 3-Nitroaniline | Ave | 0.3518 | 0.3783 | 0.0100 | 10.8 | 10.0 | 7.5 | 20.0 |
| 2,4-Dinitrophenol | Ave | 0.2062 | 0.1852 | 0.0100 | 18.0 | 20.0 | -10.2 | 20.0 |
| Acenaphthene | Ave | 1.157 | 1.191 | 0.9000 | 10.3 | 10.0 | 3.0 | 20.0 |
| 4-Nitrophenol | Ave | 0.1376 | 0.1428 | | 10.4 | 10.0 | 3.8 | 20.0 |
| 2,4-Dinitrotoluene | Ave | 0.4242 | 0.4528 | 0.2000 | 10.7 | 10.0 | 6.7 | 20.0 |
| Dibenzofuran | Ave | 1.546 | 1.597 | 0.8000 | 10.3 | 10.0 | 3.3 | 20.0 |
| 2,3,5,6-Tetrachlorophenol | Ave | 0.2729 | 0.2524 | | 9.25 | 10.0 | -7.5 | 20.0 |
| Diethyl phthalate | Ave | 1.210 | 1.235 | 0.0100 | 10.2 | 10.0 | 2.1 | 20.0 |
| 4-Chlorophenyl phenyl ether | Ave | 0.6348 | 0.6506 | 0.4000 | 10.2 | 10.0 | 2.5 | 20.0 |
| 4-Nitroaniline | Ave | 0.3560 | 0.3916 | 0.0100 | 11.0 | 10.0 | 10.0 | 20.0 |
| Fluorene | Ave | 1.315 | 1.330 | 0.9000 | 10.1 | 10.0 | 1.2 | 20.0 |
| 4,6-Dinitro-2-methylphenol | Ave | 0.1570 | 0.1582 | 0.0100 | 10.1 | 10.0 | 0.7 | 20.0 |
| N-Nitrosodiphenylamine | Ave | 0.6270 | 0.6769 | 0.0100 | 10.8 | 10.0 | 8.0 | 20.0 |
| 1,2-Diphenylhydrazine(as Azobenzene) | Ave | 0.7959 | 0.8719 | | 11.0 | 10.0 | 9.5 | 20.0 |
| Azobenzene | Ave | 0.7959 | 0.8719 | | 11.0 | 10.0 | 9.5 | 20.0 |
| 4-Bromophenyl phenyl ether | Ave | 0.2088 | 0.2222 | 0.1000 | 10.6 | 10.0 | 6.4 | 20.0 |
| Hexachlorobenzene | Ave | 0.1831 | 0.1906 | 0.1000 | 10.4 | 10.0 | 4.1 | 20.0 |
| Atrazine | Ave | 0.1749 | 0.1952 | 0.0100 | 11.2 | 10.0 | 11.6 | 20.0 |
| Pentachlorophenol | Ave | 0.1251 | 0.1134 | 0.0500 | 18.1 | 20.0 | -9.4 | 20.0 |
| Phenanthrene | Ave | 1.159 | 1.189 | 0.7000 | 10.3 | 10.0 | 2.6 | 20.0 |
| Anthracene | Ave | 1.205 | 1.240 | 0.7000 | 10.3 | 10.0 | 2.9 | 20.0 |
| Carbazole | Ave | 1.126 | 1.186 | 0.0100 | 10.5 | 10.0 | 5.3 | 20.0 |
| Di-n-butyl phthalate | Ave | 1.392 | 1.457 | 0.0100 | 10.5 | 10.0 | 4.7 | 20.0 |
| Fluoranthene | Ave | 1.189 | 1.211 | 0.6000 | 10.2 | 10.0 | 1.9 | 20.0 |
| Benzidine | Ave | 0.8265 | 0.9592 | | 11.6 | 10.0 | 16.0 | 20.0 |
| Pyrene | Ave | 1.510 | 1.574 | 0.6000 | 10.4 | 10.0 | 4.3 | 20.0 |
| Butyl benzyl phthalate | Ave | 0.7248 | 0.7812 | 0.0100 | 10.8 | 10.0 | 7.8 | 20.0 |
| 3,3'-Dimethoxybenzidine | Ave | 0.3436 | 0.3752 | | 10.9 | 10.0 | 9.2 | 20.0 |
| Bis(2-ethylhexyl) phthalate | Ave | 1.026 | 1.086 | 0.0100 | 10.6 | 10.0 | 5.8 | 20.0 |
| 4,4'-Methylene bis(2-chloroaniline) | Ave | 0.2365 | 0.2463 | | 10.4 | 10.0 | 4.2 | 20.0 |
| 3,3'-Dichlorobenzidine | Ave | 0.4834 | 0.5218 | 0.0100 | 10.8 | 10.0 | 7.9 | 20.0 |

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Lab Sample ID: CCV 240-51476/2  Calibration Date: 07/20/2012 09:45

Instrument ID: A4HP7  Calib Start Date: 07/11/2012 11:20

GC Column: RXI-5SILMS  ID: 0.45(mm)  Calib End Date: 07/11/2012 13:51

Lab File ID: 20720002.D  Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Benzo[a]anthracene | Ave | 1.320 | 1.341 | 0.8000 | 10.2 | 10.0 | 1.6 | 20.0 |
| Chrysene | Ave | 1.206 | 1.238 | 0.7000 | 10.3 | 10.0 | 2.7 | 20.0 |
| Di-n-octyl phthalate | Ave | 2.282 | 2.483 | 0.0100 | 10.9 | 10.0 | 8.8 | 20.0 |
| Benzo[b]fluoranthene | Ave | 1.652 | 1.841 | 0.7000 | 11.1 | 10.0 | 11.4 | 20.0 |
| Benzo[k]fluoranthene | Ave | 1.670 | 1.693 | 0.7000 | 10.1 | 10.0 | 1.4 | 20.0 |
| Benzo[a]pyrene | Ave | 1.518 | 1.600 | 0.7000 | 10.5 | 10.0 | 5.4 | 20.0 |
| Indeno[1,2,3-cd]pyrene | Ave | 1.591 | 1.731 | 0.5000 | 10.9 | 10.0 | 8.8 | 20.0 |
| Dibenzo(a,h)anthracene | Ave | 1.346 | 1.439 | 0.4000 | 10.7 | 10.0 | 6.9 | 20.0 |
| Benzo[g,h,i]perylene | Ave | 1.311 | 1.419 | 0.5000 | 10.8 | 10.0 | 8.2 | 20.0 |
| 2,4-Toluene diamine | Ave | 0.2018 | | | 0.0200 | 10.0 | | 20.0 |
| 2-Fluorophenol (Surr) | Ave | 1.310 | 1.381 | | 10.5 | 10.0 | 5.5 | 20.0 |
| Phenol-d5 (Surr) | Ave | 1.632 | 1.736 | | 10.6 | 10.0 | 6.4 | 20.0 |
| Nitrobenzene-d5 (Surr) | Ave | 0.4011 | 0.4099 | | 10.2 | 10.0 | 2.2 | 20.0 |
| 2-Fluorobiphenyl (Surr) | Ave | 1.485 | 1.528 | | 10.3 | 10.0 | 3.0 | 20.0 |
| 2,4,6-Tribromophenol (Surr) | Ave | 0.1179 | 0.1147 | | 9.73 | 10.0 | -2.7 | 20.0 |
| Terphenyl-d14 (Surr) | Ave | 0.8821 | 0.9196 | | 10.4 | 10.0 | 4.3 | 20.0 |

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Lab File ID: 20720004.D Lab Sample ID: MB 240-51193/23-A

Matrix: Solid Date Extracted: 07/18/2012 11:30

Instrument ID: A4HP7 Date Analyzed: 07/20/2012 10:27

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| | LCS 240-51193/24-A | 20720005.D | 07/20/2012 10:46 |
| MT-SS19-8-10 | 240-13043-3 | 20720015.D | 07/20/2012 13:56 |
| MT-SS20-0-2 | 240-13043-4 | 20720016.D | 07/20/2012 14:15 |
| MT-SS21-0-2 | 240-13043-6 | 20720017.D | 07/20/2012 14:34 |
| MT-SS21-8-10 | 240-13043-7 | 20720018.D | 07/20/2012 14:53 |
| MT-SS20-8-10 | 240-13043-5 | 20720019.D | 07/20/2012 15:12 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-51193/23-A

Matrix: Solid | Lab File ID: 20720004.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3540C | Date Extracted: 07/18/2012 11:30

Sample wt/vol: 30.00(g) | Date Analyzed: 07/20/2012 10:27

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51476 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 50 | U | 50 | 27 |
| 123-91-1 | 1,4-Dioxane | 100 | U | 100 | 22 |
| 88-06-2 | 2,4,6-Trichlorophenol | 150 | U | 150 | 80 |
| 95-95-4 | 2,4,5-Trichlorophenol | 150 | U | 150 | 25 |
| 120-83-2 | 2,4-Dichlorophenol | 150 | U | 150 | 20 |
| 105-67-9 | 2,4-Dimethylphenol | 150 | U | 150 | 20 |
| 51-28-5 | 2,4-Dinitrophenol | 330 | U | 330 | 80 |
| 121-14-2 | 2,4-Dinitrotoluene | 200 | U | 200 | 27 |
| 91-58-7 | 2-Chloronaphthalene | 50 | U | 50 | 3.3 |
| 95-57-8 | 2-Chlorophenol | 50 | U | 50 | 27 |
| 91-57-6 | 2-Methylnaphthalene | 6.7 | U | 6.7 | 3.3 |
| 95-48-7 | 2-Methylphenol | 200 | U | 200 | 80 |
| 88-74-4 | 2-Nitroaniline | 200 | U | 200 | 9.1 |
| 88-75-5 | 2-Nitrophenol | 50 | U | 50 | 27 |
| 15831-10-4 | 3 & 4 Methylphenol | 400 | U | 400 | 20 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 100 | U | 100 | 18 |
| 99-09-2 | 3-Nitroaniline | 200 | U | 200 | 16 |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 150 | U | 150 | 80 |
| 101-55-3 | 4-Bromophenyl phenyl ether | 50 | U | 50 | 13 |
| 59-50-7 | 4-Chloro-3-methylphenol | 150 | U | 150 | 21 |
| 106-47-8 | 4-Chloroaniline | 150 | U | 150 | 17 |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 50 | U | 50 | 13 |
| 100-01-6 | 4-Nitroaniline | 200 | U | 200 | 26 |
| 83-32-9 | Acenaphthene | 6.7 | U | 6.7 | 3.3 |
| 208-96-8 | Acenaphthylene | 6.7 | U | 6.7 | 3.3 |
| 98-86-2 | Acetophenone | 100 | U | 100 | 9.2 |
| 120-12-7 | Anthracene | 6.7 | U | 6.7 | 3.3 |
| 1912-24-9 | Atrazine | 200 | U | 200 | 9.1 |
| 100-52-7 | Benzaldehyde | 100 | U | 100 | 12 |
| 56-55-3 | Benzo[a]anthracene | 6.7 | U | 6.7 | 3.3 |
| 50-32-8 | Benzo[a]pyrene | 6.7 | U | 6.7 | 3.3 |
| 205-99-2 | Benzo[b]fluoranthene | 6.7 | U | 6.7 | 3.3 |
| 191-24-2 | Benzo[g,h,i]perylene | 6.7 | U | 6.7 | 3.3 |
| 207-08-9 | Benzo[k]fluoranthene | 6.7 | U | 6.7 | 3.3 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-51193/23-A

Matrix: Solid | Lab File ID: 20720004.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3540C | Date Extracted: 07/18/2012 11:30

Sample wt/vol: 30.00(g) | Date Analyzed: 07/20/2012 10:27

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51476 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 111-91-1 | Bis(2-chloroethoxy)methane | 100 | U | 100 | 22 |
| 111-44-4 | Bis(2-chloroethyl)ether | 100 | U | 100 | 2.0 |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 30.3 | J | 50 | 19 |
| 85-68-7 | Butyl benzyl phthalate | 50 | U | 50 | 10 |
| 105-60-2 | Caprolactam | 330 | U | 330 | 37 |
| 86-74-8 | Carbazole | 50 | U | 50 | 27 |
| 218-01-9 | Chrysene | 6.7 | U | 6.7 | 1.1 |
| 84-74-2 | Di-n-butyl phthalate | 50 | U | 50 | 15 |
| 117-84-0 | Di-n-octyl phthalate | 50 | U | 50 | 27 |
| 53-70-3 | Dibenzo(a,h)anthracene | 6.7 | U | 6.7 | 3.3 |
| 132-64-9 | Dibenzofuran | 50 | U | 50 | 3.3 |
| 84-66-2 | Diethyl phthalate | 50 | U | 50 | 16 |
| 131-11-3 | Dimethyl phthalate | 50 | U | 50 | 17 |
| 206-44-0 | Fluoranthene | 6.7 | U | 6.7 | 3.3 |
| 86-73-7 | Fluorene | 6.7 | U | 6.7 | 3.3 |
| 118-74-1 | Hexachlorobenzene | 6.7 | U | 6.7 | 2.1 |
| 87-68-3 | Hexachlorobutadiene | 50 | U | 50 | 27 |
| 77-47-4 | Hexachlorocyclopentadiene | 330 | U | 330 | 27 |
| 67-72-1 | Hexachloroethane | 50 | U | 50 | 9.0 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 6.7 | U | 6.7 | 3.3 |
| 78-59-1 | Isophorone | 50 | U | 50 | 13 |
| 621-64-7 | N-Nitrosodi-n-propylamine | 50 | U | 50 | 27 |
| 62-75-9 | N-Nitrosodimethylamine | 100 | U | 100 | 16 |
| 86-30-6 | N-Nitrosodiphenylamine | 50 | U | 50 | 21 |
| 91-20-3 | Naphthalene | 6.7 | U | 6.7 | 3.3 |
| 98-95-3 | Nitrobenzene | 100 | U | 100 | 2.2 |
| 87-86-5 | Pentachlorophenol | 150 | U | 150 | 80 |
| 85-01-8 | Phenanthrene | 6.7 | U | 6.7 | 3.3 |
| 108-95-2 | Phenol | 50 | U | 50 | 27 |
| 129-00-0 | Pyrene | 6.7 | U | 6.7 | 3.3 |
| 108-60-1 | 2,2'-oxybis[1-chloropropane] | 100 | U | 100 | 9.5 |
| 606-20-2 | 2,6-Dinitrotoluene | 200 | U | 200 | 21 |
| 100-02-7 | 4-Nitrophenol | 330 | U | 330 | 80 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-51193/23-A

Matrix: Solid | Lab File ID: 20720004.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3540C | Date Extracted: 07/18/2012 11:30

Sample wt/vol: 30.00(g) | Date Analyzed: 07/20/2012 10:27

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51476 | Units: ug/Kg

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 1718-51-0 | Terphenyl-d14 (Surr) | 85 | | 41-119 |
| 4165-62-2 | Phenol-d5 (Surr) | 89 | | 28-110 |
| 4165-60-0 | Nitrobenzene-d5 (Surr) | 68 | | 24-112 |
| 367-12-4 | 2-Fluorophenol (Surr) | 90 | | 26-110 |
| 321-60-8 | 2-Fluorobiphenyl (Surr) | 66 | | 34-110 |
| 118-79-6 | 2,4,6-Tribromophenol (Surr) | 74 | | 10-118 |

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 20720005.D

Lab ID: LCS 240-51193/24-A Client ID:

| COMPOUND | SPIKE ADDED (ug/Kg) | LCS CONCENTRATION (ug/Kg) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| 1,1'-Biphenyl | 667 | 511 | 77 | 50-130 | |
| 1,4-Dioxane | 667 | 274 | 41 | 10-110 | |
| 2,4,6-Trichlorophenol | 667 | 425 | 64 | 37-110 | |
| 2,4,5-Trichlorophenol | 667 | 459 | 69 | 42-110 | |
| 2,4-Dichlorophenol | 667 | 483 | 72 | 40-110 | |
| 2,4-Dimethylphenol | 667 | 426 | 64 | 28-110 | |
| 2,4-Dinitrophenol | 667 | 227 J | 34 | 10-110 | |
| 2,4-Dinitrotoluene | 667 | 506 | 76 | 55-116 | |
| 2-Chloronaphthalene | 667 | 426 | 64 | 46-110 | |
| 2-Chlorophenol | 667 | 491 | 74 | 39-110 | |
| 2-Methylnaphthalene | 667 | 473 | 71 | 46-110 | |
| 2-Methylphenol | 667 | 499 | 75 | 36-110 | |
| 2-Nitroaniline | 667 | 530 | 79 | 47-124 | |
| 2-Nitrophenol | 667 | 495 | 74 | 35-110 | |
| 3 & 4 Methylphenol | 1330 | 993 | 75 | 40-110 | |
| 3,3'-Dichlorobenzidine | 667 | 365 | 55 | 31-110 | |
| 3-Nitroaniline | 667 | 464 | 70 | 44-110 | |
| 4,6-Dinitro-2-methylphenol | 667 | 450 | 67 | 21-110 | |
| 4-Bromophenyl phenyl ether | 667 | 450 | 67 | 53-112 | |
| 4-Chloro-3-methylphenol | 667 | 527 | 79 | 42-110 | |
| 4-Chloroaniline | 667 | 360 | 54 | 25-110 | |
| 4-Chlorophenyl phenyl ether | 667 | 456 | 68 | 53-110 | |
| 4-Nitroaniline | 667 | 503 | 75 | 50-110 | |
| Acenaphthene | 667 | 479 | 72 | 46-110 | |
| Acenaphthylene | 667 | 489 | 73 | 47-110 | |
| Acetophenone | 667 | 517 | 78 | 50-130 | |
| Anthracene | 667 | 523 | 78 | 56-111 | |
| Atrazine | 667 | 700 | 105 | 50-130 | |
| Benzaldehyde | 667 | 482 | 72 | 10-130 | |
| Benzo[a]anthracene | 667 | 504 | 76 | 58-111 | |
| Benzo[a]pyrene | 667 | 471 | 71 | 44-115 | |
| Benzo[b]fluoranthene | 667 | 509 | 76 | 43-124 | |
| Benzo[g,h,i]perylene | 667 | 546 | 82 | 44-120 | |
| Benzo[k]fluoranthene | 667 | 529 | 79 | 38-122 | |
| Bis(2-chloroethoxy)methane | 667 | 439 | 66 | 42-110 | |
| Bis(2-chloroethyl)ether | 667 | 457 | 68 | 41-110 | |
| Bis(2-ethylhexyl) phthalate | 667 | 554 | 83 | 56-123 | |
| Butyl benzyl phthalate | 667 | 539 | 81 | 57-121 | |
| Caprolactam | 667 | 622 | 93 | 50-130 | |
| Carbazole | 667 | 542 | 81 | 56-115 | |
| Chrysene | 667 | 543 | 81 | 56-111 | |
| Di-n-butyl phthalate | 667 | 571 | 86 | 57-119 | |

# Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 20720005.D

Lab ID: LCS 240-51193/24-A Client ID:

| COMPOUND | SPIKE ADDED (ug/Kg) | LCS CONCENTRATION (ug/Kg) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| Di-n-octyl phthalate | 667 | 542 | 81 | 45-123 | |
| Dibenzo(a,h)anthracene | 667 | 550 | 82 | 45-122 | |
| Dibenzofuran | 667 | 498 | 75 | 50-110 | |
| Diethyl phthalate | 667 | 545 | 82 | 55-114 | |
| Dimethyl phthalate | 667 | 529 | 79 | 54-112 | |
| Fluoranthene | 667 | 535 | 80 | 55-118 | |
| Fluorene | 667 | 504 | 76 | 51-110 | |
| Hexachlorobenzene | 667 | 497 | 75 | 51-110 | |
| Hexachlorobutadiene | 667 | 401 | 60 | 39-110 | |
| Hexachlorocyclopentadiene | 667 | 366 | 55 | 10-110 | |
| Hexachloroethane | 667 | 442 | 66 | 38-110 | |
| Indeno[1,2,3-cd]pyrene | 667 | 538 | 81 | 45-121 | |
| Isophorone | 667 | 497 | 74 | 46-117 | |
| N-Nitrosodi-n-propylamine | 667 | 489 | 73 | 40-114 | |
| N-Nitrosodimethylamine | 667 | 471 | 71 | 10-130 | |
| N-Nitrosodiphenylamine | 667 | 514 | 77 | 54-112 | |
| Naphthalene | 667 | 485 | 73 | 42-110 | |
| Nitrobenzene | 667 | 453 | 68 | 40-110 | |
| Pentachlorophenol | 667 | 377 | 56 | 10-110 | |
| Phenanthrene | 667 | 527 | 79 | 54-110 | |
| Phenol | 667 | 527 | 79 | 39-110 | |
| Pyrene | 667 | 512 | 77 | 58-113 | |
| 2,2'-oxybis[1-chloropropane] | 667 | 440 | 66 | 36-116 | |
| 2,6-Dinitrotoluene | 667 | 499 | 75 | 54-115 | |
| 4-Nitrophenol | 667 | 505 | 76 | 24-117 | |

# Column to be used to flag recovery and RPD values

FORM III 8270D

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Lab File ID: 20718001.D  DFTPP Injection Date: 07/18/2012

Instrument ID: A4HP9  DFTPP Injection Time: 09:37

Analysis Batch No.: 51126

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 51 | 30.0- 80.0% of mass 198 | 44.7 | |
| 68 | Less than 2.0% of mass 69 | 0.0 | (0.0)1 |
| 69 | Mass 69 relative abundance | 71.0 | |
| 70 | Less than 2.0% of mass 69 | 0.3 | (0.4)1 |
| 127 | 25.0 - 75.0% of mass 198 | 52.9 | |
| 197 | Less than 1.0% of mass 198 | 0.0 | |
| 198 | Base Peak, 100% relative abundance | 100.0 | |
| 199 | 5.0 to 9.0% of mass 198 | 7.3 | |
| 275 | 10.0- 30.0% of mass 198 | 21.4 | |
| 365 | Greater than 0.75% of mass 198 | 2.4 | |
| 441 | Present, but less than mass 443 | 5.3 | |
| 442 | 40.0 - 110.0% of mass 198 | 46.2 | |
| 443 | 15.0 - 24.0% of mass 442 | 8.5 | (18.5)2 |

1-Value is % mass 69  2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | STD5 240-51126/2 | 20718002.D | 07/18/2012 | 09:54 |
| | STD4 240-51126/3 | 20718003.D | 07/18/2012 | 10:13 |
| | STD3 240-51126/4 | 20718004.D | 07/18/2012 | 10:33 |
| | STD2 240-51126/5 | 20718005.D | 07/18/2012 | 10:52 |
| | STD1 240-51126/6 | 20718006.D | 07/18/2012 | 11:11 |
| | STD9 240-51126/7 | 20718007.D | 07/18/2012 | 11:31 |
| | STD8 240-51126/8 | 20718008.D | 07/18/2012 | 11:50 |
| | STD7 240-51126/9 | 20718009.D | 07/18/2012 | 12:10 |
| | STD6 240-51126/10 | 20718010.D | 07/18/2012 | 12:29 |
| | ICV 240-51126/11 | 20718011.D | 07/18/2012 | 12:49 |

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 51126

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/18/2012 09:54 Calibration End Date: 07/18/2012 12:29 Calibration ID: 10168

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-51126/6 | 20718006.D |
| Level 2 | STD2 240-51126/5 | 20718005.D |
| Level 3 | STD3 240-51126/4 | 20718004.D |
| Level 4 | STD4 240-51126/3 | 20718003.D |
| Level 5 | STD5 240-51126/2 | 20718002.D |
| Level 6 | STD6 240-51126/10 | 20718010.D |
| Level 7 | STD7 240-51126/9 | 20718009.D |
| Level 8 | STD8 240-51126/8 | 20718008.D |
| Level 9 | STD9 240-51126/7 | 20718007.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 1,4-Dioxane | 0.9578 | 1.0417<br>1.0077 | 0.9425<br>0.9511 | 0.9989<br>1.0726 | 0.9229 | Ave | | 0.9869 | | | | 5.3 | | 20.0 | | | |
| N-Nitrosodimethylamine | 1.8506 | 1.8208<br>1.8573 | 1.7127<br>1.7135 | 1.6390<br>1.8577 | 1.6153 | Ave | | 1.7584 | | | | 5.7 | | 20.0 | | | |
| Pyridine | 3.0052 | 2.9714<br>3.1111 | 2.7928<br>3.0630 | 2.6160<br>3.1378 | 2.6796 | Ave | | 2.9221 | | | | 6.9 | | 20.0 | | | |
| Ethyl methacrylate | 2.4517 | 2.5971<br>2.5109 | 2.3602<br>2.3402 | 2.2925<br>2.6128 | 2.2933 | Ave | | 2.4323 | | | | 5.4 | | 20.0 | | | |
| Benzaldehyde | 2.8218<br>2.2828 | 2.7601<br>+++++ | 2.7056<br>+++++ | 2.5546<br>+++++ | 2.4377 | Ave | | 2.5938 | | | 0.0100 | 8.0 | | 20.0 | | | |
| 3-Chloropropionitrile | 1.2451 | 1.2031<br>1.2416 | 1.1629<br>1.1414 | 1.1674<br>1.2458 | 1.1316 | Ave | | 1.1924 | | | | 4.0 | | 20.0 | | | |
| Malononitrile | 3.3344 | 3.0865<br>2.9911 | 3.1239<br>2.4553 | 3.1153<br>2.1764 | 3.1227 | Ave | | 2.9257 | | | | 14.0 | | 20.0 | | | |
| ~~2,4-Toluene diamine~~ | 0.1520 | 0.3130<br>+++++ | 0.3197<br>+++++ | 0.2088<br>+++++ | 0.2283 | Ave | | 0.2444 | | | | ~~29.0~~ | * | 20.0 | | | |
| Phenol | 3.1350 | 2.7112<br>3.1422 | 2.8001<br>3.1323 | 2.7494<br>3.1820 | 2.7934 | Ave | | 2.9557 | | | 0.8000 | 7.0 | | 20.0 | | | |
| Aniline | 3.9529 | 3.6736<br>4.0746 | 3.6802<br>3.9465 | 3.6627<br>3.9369 | 3.5973 | Ave | | 3.8156 | | | | 4.7 | | 20.0 | | | |
| Bis(2-chloroethyl)ether | 2.9125 | 2.8922<br>2.9061 | 2.6571<br>2.9529 | 2.5283<br>2.9413 | 2.6269 | Ave | | 2.8022 | | | 0.7000 | 6.0 | | 20.0 | | | |
| 2-Chlorophenol | 1.5174 | 1.4858<br>1.5629 | 1.4855<br>1.5310 | 1.4797<br>1.5821 | 1.4406 | Ave | | 1.5106 | | | 0.8000 | 3.1 | | 20.0 | | | |
| 1,3-Dichlorobenzene | 1.8151 | 1.8783<br>1.8375 | 1.6727<br>1.7425 | 1.6868<br>1.8282 | 1.7308 | Ave | | 1.7740 | | | | 4.3 | | 20.0 | | | |

Note: The ml coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 51126

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/18/2012 09:54 Calibration End Date: 07/18/2012 12:29 Calibration ID: 10168

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 1,4-Dichlorobenzene | 1.6669 | 1.5982<br>1.6435 | 1.6209<br>1.5629 | 1.5961<br>1.6999 | 1.5868 | Ave | | 1.6219 | | | | 2.8 | | 20.0 | | | |
| Benzyl alcohol | 1.3667 | 1.2855<br>1.4163 | 1.2368<br>1.4428 | 1.2335<br>1.3956 | 1.2776 | Ave | | 1.3318 | | | | 6.3 | | 20.0 | | | |
| 1,2-Dichlorobenzene | 1.7448 | 1.6837<br>1.7305 | 1.5869<br>1.6726 | 1.6090<br>1.7471 | 1.6042 | Ave | | 1.6724 | | | | 3.9 | | 20.0 | | | |
| 2-Methylphenol | 1.9268 | 1.9556<br>1.9200 | 1.7495<br>1.9684 | 1.6914<br>1.9027 | 1.7883 | Ave | | 1.8628 | | | 0.7000 | 5.6 | | 20.0 | | | |
| Benzoic acid | 0.2374 | +++++<br>0.2744 | 0.1167<br>0.2920 | 0.1769<br>0.2937 | 0.2294 | Qua | -0.330 | 0.2488 | 0.0011 | | | | | | 0.9990 | | 0.9900 |
| 2,2'-oxybis[1-chloropropane] | 2.2472 | 2.0765<br>2.2447 | 2.1068<br>2.2578 | 1.9893<br>2.1769 | 2.0167 | Ave | | 2.1395 | | | | 5.0 | | 20.0 | | | |
| 3 & 4 Methylphenol | 2.0493 | 1.8481<br>2.0795 | 1.9415<br>2.1104 | 1.8560<br>2.0153 | 1.8916 | Ave | | 1.9740 | | | | 5.2 | | 20.0 | | | |
| N-Nitrosodi-n-propylamine | 2.3335 | 2.3680<br>2.3677 | 2.1513<br>2.4005 | 2.1089<br>2.2280 | 2.0072 | Ave | | 2.2456 | | | 0.5000 | 6.4 | | 20.0 | | | |
| Acetophenone | 3.0573 | 2.8247<br>3.0974 | 2.8921<br>3.2216 | 2.7210<br>3.0560 | 2.7414 | Ave | | 2.9514 | | | 0.0100 | 6.2 | | 20.0 | | | |
| Hexachloroethane | 0.8627 | 0.8513<br>0.8346 | 0.7797<br>0.8067 | 0.7455<br>0.8198 | 0.7878 | Ave | | 0.8110 | | | 0.3000 | 4.8 | | 20.0 | | | |
| Nitrobenzene | 0.8607 | 0.8536<br>0.8780 | 0.8285<br>0.8844 | 0.7858<br>0.8947 | 0.8008 | Ave | | 0.8483 | | | 0.2000 | 4.7 | | 20.0 | | | |
| Isophorone | 1.3425 | 1.1740<br>1.3949 | 1.2437<br>1.4592 | 1.2081<br>1.3968 | 1.2241 | Ave | | 1.3054 | | | 0.4000 | 8.1 | | 20.0 | | | |
| 2-Nitrophenol | 0.2192 | 0.1932<br>0.2334 | 0.1915<br>0.2380 | 0.1967<br>0.2460 | 0.2178 | Ave | | 0.2170 | | | 0.1000 | 9.8 | | 20.0 | | | |
| 2,4-Dimethylphenol | 0.5919 | 0.5474<br>0.6139 | 0.5521<br>0.6261 | 0.5407<br>0.6431 | 0.5489 | Ave | | 0.5830 | | | 0.2000 | 7.0 | | 20.0 | | | |
| 1,3,5-Trichlorobenzene | 0.3814 | 0.3535<br>0.3917 | 0.3583<br>0.3939 | 0.3565<br>0.4203 | 0.3585 | Ave | | 0.3768 | | | | 6.4 | | 20.0 | | | |
| Bis(2-chloroethoxy)methane | 0.7860 | 0.7293<br>0.8109 | 0.7436<br>0.8474 | 0.7241<br>0.8343 | 0.7332 | Ave | | 0.7761 | | | 0.3000 | 6.5 | | 20.0 | | | |
| 2,4-Dichlorophenol | 0.2980 | 0.2634<br>0.3067 | 0.2850<br>0.3139 | 0.2697<br>0.3217 | 0.2866 | Ave | | 0.2931 | | | 0.2000 | 7.1 | | 20.0 | | | |
| 1,2,4-Trichlorobenzene | 0.3799 | 0.3391<br>0.3889 | 0.3506<br>0.3923 | 0.3522<br>0.4055 | 0.3563 | Ave | | 0.3706 | | | | 6.5 | | 20.0 | | | |
| Naphthalene | 1.1528<br>1.0844 | 0.9813<br>1.1138 | 1.0140<br>1.1388 | 0.9848<br>1.1766 | 1.0005 | Ave | | 1.0719 | | | 0.7000 | 7.2 | | 20.0 | | | |
| 4-Chloroaniline | 0.4929 | 0.4558<br>0.5012 | 0.4900<br>0.5294 | 0.4721<br>0.5281 | 0.4654 | Ave | | 0.4919 | | | 0.0100 | 5.5 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 51126

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/18/2012 09:54 Calibration End Date: 07/18/2012 12:29 Calibration ID: 10168

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Hexachlorobutadiene | 0.2111 | 0.2059<br>0.2158 | 0.1963<br>0.2123 | 0.1981<br>0.2227 | 0.2029 | Ave | | 0.2081 | | | 0.0100 | 4.3 | | 20.0 | | | |
| 1,2,3-Trichlorobenzene | 0.3486 | 0.3246<br>0.3577 | 0.3370<br>0.3625 | 0.3234<br>0.3709 | 0.3343 | Ave | | 0.3449 | | | | 5.2 | | 20.0 | | | |
| Caprolactam | 0.1634 | 0.1449<br>0.1660 | 0.1527<br>0.1763 | 0.1464<br>0.1684 | 0.1490 | Ave | | 0.1584 | | | 0.0100 | 7.4 | | 20.0 | | | |
| 4-Chloro-3-methylphenol | 0.4996 | 0.4538<br>0.5179 | 0.4541<br>0.5535 | 0.4591<br>0.5363 | 0.4639 | Ave | | 0.4923 | | | 0.2000 | 8.1 | | 20.0 | | | |
| 2-Methylnaphthalene | 0.7308<br>0.7339 | 0.6640<br>0.7703 | 0.6570<br>0.7954 | 0.6363<br>0.8117 | 0.6895 | Ave | | 0.7210 | | | 0.4000 | 8.8 | | 20.0 | | | |
| 2,4-Dinitrophenol | 0.2286 | +++++<br>0.2419 | 0.1374<br>0.2606 | 0.1737<br>0.2787 | 0.2215 | Qua | -0.077 | 0.1987 | 0.0016 | | 0.0100 | | | | 1.0000 | | 0.9900 |
| 1-Methylnaphthalene | 0.7516<br>0.7123 | 0.6456<br>0.7257 | 0.6356<br>0.7630 | 0.6108<br>0.7740 | 0.6537 | Ave | | 0.6969 | | | | 8.8 | | 20.0 | | | |
| 1,2,3,5-Tetrachlorobenzene | 0.6445 | 0.5436<br>0.6564 | 0.5983<br>0.6472 | 0.5591<br>0.7008 | 0.6054 | Ave | | 0.6194 | | | | 8.5 | | 20.0 | | | |
| Hexachlorocyclopentadiene | 0.4353 | 0.3520<br>0.4402 | 0.3714<br>0.4375 | 0.3509<br>0.4663 | 0.4247 | Ave | | 0.4098 | | | 0.0500 | 11.0 | | 20.0 | | | |
| 2,4,6-Trichlorophenol | 0.3820 | 0.3055<br>0.3894 | 0.3615<br>0.3938 | 0.3557<br>0.4027 | 0.3658 | Ave | | 0.3696 | | | 0.2000 | 8.3 | | 20.0 | | | |
| 2,4,5-Trichlorophenol | 0.3995 | 0.3413<br>0.4088 | 0.3843<br>0.4194 | 0.3639<br>0.4281 | 0.3913 | Ave | | 0.3921 | | | 0.2000 | 7.3 | | 20.0 | | | |
| 1,1'-Biphenyl | 1.6350<br>1.5747 | 1.3678<br>1.6468 | 1.4203<br>1.6420 | 1.3621<br>1.7608 | 1.4379 | Ave | | 1.5386 | | | 0.0100 | 9.4 | | 20.0 | | | |
| 1,2,3,4 -Tetrachlorobenzene | 0.6134 | 0.5486<br>0.6363 | 0.5597<br>0.6365 | 0.5492<br>0.6746 | 0.5814 | Ave | | 0.6000 | | | | 7.9 | | 20.0 | | | |
| 2-Chloronaphthalene | 1.4704<br>1.3088 | 1.2261<br>1.3166 | 1.2212<br>1.3331 | 1.1487<br>1.4103 | 1.2537 | Ave | | 1.2988 | | | 0.8000 | 7.7 | | 20.0 | | | |
| 4,6-Dinitro-2-methylphenol | 0.1573 | +++++<br>0.1616 | 0.1185<br>0.1653 | 0.1396<br>0.1720 | 0.1603 | Ave | | 0.1535 | | | 0.0100 | 12.0 | | 20.0 | | | |
| 2-Nitroaniline | 0.7102 | 0.6307<br>0.7157 | 0.6594<br>0.7170 | 0.6235<br>0.7317 | 0.6590 | Ave | | 0.6809 | | | 0.0100 | 6.3 | | 20.0 | | | |
| Dimethyl phthalate | 1.3680 | 1.1815<br>1.3896 | 1.2333<br>1.4323 | 1.2393<br>1.4155 | 1.2789 | Ave | | 1.3173 | | | 0.0100 | 7.2 | | 20.0 | | | |
| 2,6-Dinitrotoluene | 0.3678 | 0.2956<br>0.3750 | 0.3354<br>0.3781 | 0.3148<br>0.3812 | 0.3523 | Ave | | 0.3500 | | | | 9.1 | | 20.0 | | | |
| 1,2-Dinitrobenzene | 0.1776 | 0.1468<br>0.1801 | 0.1642<br>0.1824 | 0.1529<br>0.1827 | 0.1704 | Ave | | 0.1696 | | | | 8.2 | | 20.0 | | | |
| Acenaphthylene | 2.0400<br>1.9412 | 1.6679<br>2.0173 | 1.7609<br>1.9891 | 1.7197<br>2.0922 | 1.8225 | Ave | | 1.8945 | | | 0.9000 | 8.2 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 51126

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/18/2012 09:54 Calibration End Date: 07/18/2012 12:29 Calibration ID: 10168

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1 LVL 6 | LVL 2 LVL 7 | LVL 3 LVL 8 | LVL 4 LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 3-Nitroaniline | 0.3580 | 0.3380 0.3632 | 0.3231 0.3627 | 0.3274 0.3692 | 0.3434 | Ave | | 0.3481 | | | 0.0100 | 5.1 | | 20.0 | | | |
| Acenaphthene | 1.3717 1.2703 | 1.1108 1.3010 | 1.1589 1.3466 | 1.0808 1.4114 | 1.1577 | Ave | | 1.2455 | | | 0.9000 | 9.7 | | 20.0 | | | |
| 4-Nitrophenol | 0.3305 | 0.2480 0.3444 | 0.2708 0.3518 | 0.3175 0.3588 | 0.3050 | Ave | | 0.3159 | | | | 13.0 | | 20.0 | | | |
| 2,4-Dinitrotoluene | 0.5101 | 0.4106 0.5063 | 0.4340 0.5117 | 0.4551 0.5143 | 0.4715 | Ave | | 0.4767 | | | 0.2000 | 8.4 | | 20.0 | | | |
| Dibenzofuran | 1.6133 1.6627 | 1.4149 1.6813 | 1.5306 1.7309 | 1.4895 1.7971 | 1.5275 | Ave | | 1.6053 | | | 0.8000 | 7.7 | | 20.0 | | | |
| 2,3,5,6-Tetrachlorophenol | 0.3318 | 0.2706 0.3423 | 0.3176 0.3422 | 0.2976 0.3538 | 0.3173 | Ave | | 0.3217 | | | | 8.5 | | 20.0 | | | |
| Diethyl phthalate | 1.4230 | 1.3016 1.4671 | 1.3264 1.5019 | 1.3077 1.5150 | 1.3247 | Ave | | 1.3959 | | | 0.0100 | 6.5 | | 20.0 | | | |
| 4-Chlorophenyl phenyl ether | 0.7634 | 0.6873 0.7798 | 0.7140 0.8090 | 0.6895 0.8352 | 0.7099 | Ave | | 0.7485 | | | 0.4000 | 7.5 | | 20.0 | | | |
| 4-Nitroaniline | 0.3917 | 0.3377 0.4134 | 0.3313 0.4143 | 0.3404 0.4320 | 0.3721 | Ave | | 0.3791 | | | 0.0100 | 10.0 | | 20.0 | | | |
| Fluorene | 1.4529 1.4429 | 1.2748 1.4651 | 1.2557 1.5126 | 1.2591 1.5535 | 1.2956 | Ave | | 1.3903 | | | 0.9000 | 8.5 | | 20.0 | | | |
| N-Nitrosodiphenylamine | 0.6148 | 0.5705 0.6337 | 0.5904 0.6271 | 0.5590 0.6490 | 0.5858 | Ave | | 0.6038 | | | 0.0100 | 5.3 | | 20.0 | | | |
| 1,2-Diphenylhydrazine(as Azobenzene) | 1.5936 | 1.4783 1.5826 | 1.5053 1.6071 | 1.4489 1.6526 | 1.4422 | Ave | | 1.5402 | | | | 5.1 | | 20.0 | | | |
| Azobenzene | 1.5946 | 1.4783 1.5831 | 1.5112 1.6071 | 1.4504 1.6526 | 1.4445 | Ave | | 1.5402 | | | | 5.1 | | 20.0 | | | |
| 4-Bromophenyl phenyl ether | 0.2292 | 0.2092 0.2290 | 0.2137 0.2357 | 0.2242 0.2439 | 0.2213 | Ave | | 0.2258 | | | 0.1000 | 5.0 | | 20.0 | | | |
| Hexachlorobenzene | 0.2044 0.1881 | 0.1781 0.1943 | 0.1983 0.1947 | 0.1723 0.2014 | 0.1809 | Ave | | 0.1903 | | | 0.1000 | 5.8 | | 20.0 | | | |
| Atrazine | 0.2023 | 0.1940 0.2022 | 0.2015 0.1984 | 0.2020 0.1822 | 0.1957 | Ave | | 0.1973 | | | 0.0100 | 3.5 | | 20.0 | | | |
| Pentachlorophenol | 0.1318 | 0.0818 0.1426 | 0.1047 0.1535 | 0.1208 0.1549 | 0.1369 | Ave | | 0.1284 | | | 0.0500 | 20.0 | | 20.0 | | | |
| Phenanthrene | 1.2633 1.1893 | 1.0616 1.2033 | 1.0896 1.2502 | 1.0787 1.2845 | 1.1072 | Ave | | 1.1698 | | | 0.7000 | 7.4 | | 20.0 | | | |
| Anthracene | 1.2644 1.2365 | 1.0849 1.2653 | 1.1102 1.2942 | 1.1293 1.3357 | 1.1661 | Ave | | 1.2096 | | | 0.7000 | 7.4 | | 20.0 | | | |
| Carbazole | 1.1321 | 1.0163 1.1698 | 1.0622 1.1854 | 1.0347 1.2202 | 1.0695 | Ave | | 1.1113 | | | 0.0100 | 6.8 | | 20.0 | | | |

Note: The ml coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 51126

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/18/2012 09:54 Calibration End Date: 07/18/2012 12:29 Calibration ID: 10168

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Di-n-butyl phthalate | 1.5042 | 1.3243<br>1.5493 | 1.3784<br>1.5776 | 1.3597<br>1.6372 | 1.3971 | Ave | | 1.4660 | | | 0.0100 | 7.9 | | 20.0 | | | |
| Fluoranthene | 1.2988<br>1.3616 | 1.1705<br>1.3873 | 1.2218<br>1.4265 | 1.1901<br>1.4618 | 1.2336 | Ave | | 1.3058 | | | 0.6000 | 8.2 | | 20.0 | | | |
| Benzidine | 0.8547 | 0.6766<br>0.8348 | 0.7293<br>0.8121 | 0.6994<br>0.7926 | 0.7834 | Ave | | 0.7729 | | | | 8.3 | | 20.0 | | | |
| Pyrene | 1.5064<br>1.5142 | 1.3954<br>1.5594 | 1.4240<br>1.5521 | 1.3627<br>1.6063 | 1.4080 | Ave | | 1.4809 | | | 0.6000 | 5.8 | | 20.0 | | | |
| Butyl benzyl phthalate | 0.7678 | 0.7009<br>0.7755 | 0.6804<br>0.7672 | 0.6584<br>0.7929 | 0.7178 | Ave | | 0.7326 | | | 0.0100 | 6.8 | | 20.0 | | | |
| 3,3'-Dimethoxybenzidine | 0.3840 | 0.2632<br>0.3903 | 0.3112<br>0.3851 | 0.3169<br>0.4047 | 0.3561 | Ave | | 0.3514 | | | | 14.0 | | 20.0 | | | |
| Bis(2-ethylhexyl) phthalate | 1.1000 | 0.9763<br>1.1412 | 0.9914<br>1.1597 | 0.9615<br>1.1703 | 1.0027 | Ave | | 1.0629 | | | 0.0100 | 8.3 | | 20.0 | | | |
| 4,4'-Methylene bis(2-chloroaniline) | 0.2905 | 0.2158<br>0.3015 | 0.2494<br>0.2965 | 0.2578<br>0.3056 | 0.2704 | Ave | | 0.2734 | | | | 11.0 | | 20.0 | | | |
| 3,3'-Dichlorobenzidine | 0.5050 | 0.4299<br>0.5217 | 0.4451<br>0.5160 | 0.4581<br>0.5363 | 0.4782 | Ave | | 0.4863 | | | 0.0100 | 8.1 | | 20.0 | | | |
| Benzo[a]anthracene | 1.5473<br>1.3698 | 1.3099<br>1.3901 | 1.3096<br>1.3701 | 1.2620<br>1.4335 | 1.2984 | Ave | | 1.3656 | | | 0.8000 | 6.3 | | 20.0 | | | |
| Chrysene | 1.3272<br>1.2366 | 1.1577<br>1.2666 | 1.1743<br>1.2444 | 1.1348<br>1.2925 | 1.1569 | Ave | | 1.2212 | | | 0.7000 | 5.6 | | 20.0 | | | |
| Di-n-octyl phthalate | 2.6027 | 2.0943<br>2.6600 | 2.2085<br>2.7206 | 2.2950<br>2.7706 | 2.4178 | Ave | | 2.4712 | | | 0.0100 | 10.0 | | 20.0 | | | |
| Benzo[b]fluoranthene | 1.6393<br>1.7471 | 1.4488<br>1.8173 | 1.5975<br>1.9395 | 1.5883<br>2.0434 | 1.6086 | Ave | | 1.7144 | | | 0.7000 | 11.0 | | 20.0 | | | |
| Benzo[k]fluoranthene | 1.8351<br>1.8718 | 1.5771<br>1.8389 | 1.6406<br>1.7697 | 1.6927<br>1.7939 | 1.8214 | Ave | | 1.7601 | | | 0.7000 | 5.7 | | 20.0 | | | |
| Benzo[a]pyrene | 1.5703<br>1.6723 | 1.4324<br>1.6655 | 1.5187<br>1.6693 | 1.5179<br>1.7368 | 1.5461 | Ave | | 1.5921 | | | 0.7000 | 6.2 | | 20.0 | | | |
| Indeno[1,2,3-cd]pyrene | 1.6770<br>1.7904 | 1.4554<br>1.8060 | 1.5488<br>1.8222 | 1.6029<br>1.8804 | 1.6514 | Ave | | 1.6927 | | | 0.5000 | 8.4 | | 20.0 | | | |
| Dibenzo(a,h)anthracene | 1.2068<br>1.4718 | 1.1140<br>1.5009 | 1.2375<br>1.5309 | 1.2778<br>1.5863 | 1.3735 | Ave | | 1.3666 | | | 0.4000 | 12.0 | | 20.0 | | | |
| Benzo[g,h,i]perylene | 1.4397<br>1.4221 | 1.2402<br>1.4240 | 1.2673<br>1.4426 | 1.3168<br>1.5187 | 1.3402 | Ave | | 1.3791 | | | 0.5000 | 6.7 | | 20.0 | | | |
| 2-Fluorophenol (Surr) | 1.8389 | 1.6394<br>1.9144 | 1.7092<br>1.8652 | 1.6253<br>1.8632 | 1.6640 | Ave | | 1.7650 | | | | 6.6 | | 20.0 | | | |
| Phenol-d5 (Surr) | 2.9128 | 2.6680<br>2.9215 | 2.5819<br>2.9653 | 2.4865<br>2.9119 | 2.5611 | Ave | | 2.7511 | | | | 7.1 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 51126

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/18/2012 09:54 Calibration End Date: 07/18/2012 12:29 Calibration ID: 10168

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Nitrobenzene-d5 (Surr) | 0.9663<br>0.8568 | 0.7949<br>0.8511 | 0.8384<br>0.8653 | 0.7716<br>0.8750 | 0.7763 | Ave | | 0.8440 | | | | 7.1 | | 20.0 | | | |
| 2-Fluorobiphenyl (Surr) | 1.6271<br>1.5709 | 1.4225<br>1.5669 | 1.4736<br>1.6287 | 1.4458<br>1.6800 | 1.4717 | Ave | | 1.5430 | | | | 6.0 | | 20.0 | | | |
| 2,4,6-Tribromophenol (Surr) | <br>0.1197 | 0.0951<br>0.1265 | 0.1262<br>0.1268 | 0.0998<br>0.1292 | 0.1153 | Ave | | 0.1173 | | | | 11.0 | | 20.0 | | | |
| Terphenyl-d14 (Surr) | 0.9684<br>0.8977 | 0.8018<br>0.9168 | 0.8051<br>0.9252 | 0.7871<br>0.9448 | 0.8261 | Ave | | 0.8748 | | | | 8.0 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 51126

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/18/2012 09:54 Calibration End Date: 07/18/2012 12:29 Calibration ID: 10168

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-51126/6 | 20718006.D |
| Level 2 | STD2 240-51126/5 | 20718005.D |
| Level 3 | STD3 240-51126/4 | 20718004.D |
| Level 4 | STD4 240-51126/3 | 20718003.D |
| Level 5 | STD5 240-51126/2 | 20718002.D |
| Level 6 | STD6 240-51126/10 | 20718010.D |
| Level 7 | STD7 240-51126/9 | 20718009.D |
| Level 8 | STD8 240-51126/8 | 20718008.D |
| Level 9 | STD9 240-51126/7 | 20718007.D |

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (NG/UL) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 |
| 1,4-Dioxane | DCB | Ave | 301695 | 17049<br>442978 | 32168<br>484263 | 65361<br>743432 | 153804 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| N-Nitrosodimethylamine | DCB | Ave | 582901 | 29801<br>816441 | 58458<br>872447 | 107239<br>1287564 | 269201 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Pyridine | DCB | Ave | 946611 | 48634<br>1367578 | 95325<br>1559536 | 171166<br>2174730 | 446571 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Ethyl methacrylate | DCB | Ave | 772241 | 42507<br>1103751 | 80557<br>1191549 | 149996<br>1810889 | 382196 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Benzaldehyde | DCB | Ave | 8838<br>719060 | 45175<br>+++++ | 92346<br>+++++ | 167147<br>+++++ | 406267 | 0.100<br>10.0 | 0.500<br>+++++ | 1.00<br>+++++ | 2.00<br>+++++ | 5.00 |
| 3-Chloropropionitrile | DCB | Ave | 392193 | 19692<br>545773 | 39692<br>581158 | 76385<br>863411 | 188587 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Malononitrile | DCB | Ave | 1050297 | 50517<br>1314851 | 106626<br>1250124 | 203832<br>1508454 | 520427 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 2,4-Toluene diamine | NPT | Ave | 198457 | 21107<br>+++++ | 43978<br>+++++ | 55395<br>+++++ | 151071 | 10.0 | 0.500<br>+++++ | 1.00<br>+++++ | 2.00<br>+++++ | 5.00 |
| Phenol | DCB | Ave | 987474 | 44375<br>1381259 | 95573<br>1594840 | 179895<br>2205370 | 465534 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Aniline | DCB | Ave | 1245108 | 60127<br>1791129 | 125612<br>2009369 | 239651<br>2728607 | 599511 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Bis(2-chloroethyl)ether | DCB | Ave | 917407 | 47338<br>1277494 | 90691<br>1503509 | 165425<br>2038574 | 437796 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 2-Chlorophenol | DCB | Ave | 477975 | 24319<br>687027 | 50703<br>779523 | 96818<br>1096495 | 240084 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 1,3-Dichlorobenzene | DCB | Ave | 571725 | 30743<br>807751 | 57092<br>887219 | 110365<br>1267069 | 288447 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 1,4-Dichlorobenzene | DCB | Ave | 525046 | 26158<br>722465 | 55325<br>795776 | 104433<br>1178202 | 264459 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 51126

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/18/2012 09:54 Calibration End Date: 07/18/2012 12:29 Calibration ID: 10168

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (NG/UL) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 |
| Benzyl alcohol | DCB | Ave | 430508 | 21040<br>622573 | 42213<br>734585 | 80705<br>967258 | 212916 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 1,2-Dichlorobenzene | DCB | Ave | 549581 | 27557<br>760684 | 54165<br>851620 | 105280<br>1210883 | 267356 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 2-Methylphenol | DCB | Ave | 606914 | 32007<br>844013 | 59715<br>1002196 | 110671<br>1318716 | 298038 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Benzoic acid | NPT | Qua | 619842 | +++++<br>988228 | 32104<br>1235449 | 93845<br>1570776 | 303621 | 20.0 | +++++<br>30.0 | 2.00<br>40.0 | 4.00<br>50.0 | 10.0 |
| 2,2'-oxybis[1-chloropropane] | DCB | Ave | 707847 | 33987<br>986752 | 71909<br>1149582 | 130157<br>1508765 | 336106 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 3 & 4 Methylphenol | DCB | Ave | 645509 | 30248<br>914105 | 66266<br>1074523 | 121438<br>1396761 | 315249 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| N-Nitrosodi-n-propylamine | DCB | Ave | 735013 | 38758<br>1040799 | 73428<br>1222212 | 137987<br>1544189 | 334519 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Acetophenone | DCB | Ave | 963004 | 46232<br>1361568 | 98713<br>1640279 | 178037<br>2118051 | 456872 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Hexachloroethane | DCB | Ave | 271729 | 13934<br>366900 | 26612<br>410720 | 48777<br>568206 | 131298 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Nitrobenzene | NPT | Ave | 1123702 | 57563<br>1581057 | 113966<br>1870913 | 208445<br>2392203 | 529982 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Isophorone | NPT | Ave | 1752781 | 79165<br>2511823 | 171086<br>3086807 | 320475<br>3734659 | 810163 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 2-Nitrophenol | NPT | Ave | 286195 | 13027<br>420296 | 26344<br>503406 | 52185<br>657677 | 144159 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 2,4-Dimethylphenol | NPT | Ave | 772732 | 36911<br>1105484 | 75943<br>1324519 | 143433<br>1719458 | 363295 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 1,3,5-Trichlorobenzene | NPT | Ave | 497964 | 23838<br>705317 | 49290<br>833251 | 94555<br>1123843 | 237277 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Bis(2-chloroethoxy)methane | NPT | Ave | 1026235 | 49183<br>1460264 | 102286<br>1792496 | 192073<br>2230754 | 485232 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 2,4-Dichlorophenol | NPT | Ave | 389005 | 17760<br>552337 | 39210<br>664100 | 71536<br>860186 | 189699 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 1,2,4-Trichlorobenzene | NPT | Ave | 495938 | 22865<br>700254 | 48230<br>829941 | 93435<br>1084156 | 235777 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Naphthalene | NPT | Ave | 14325<br>1415825 | 66175<br>2005583 | 139483<br>2409080 | 261243<br>3145929 | 662136 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 4-Chloroaniline | NPT | Ave | 643476 | 30738<br>902590 | 67401<br>1119890 | 125229<br>1412028 | 308012 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Hexachlorobutadiene | NPT | Ave | 275602 | 13883<br>388589 | 26996<br>449132 | 52553<br>595520 | 134295 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 1,2,3-Trichlorobenzene | NPT | Ave | 455194 | 21889<br>644116 | 46352<br>766746 | 85775<br>991704 | 221252 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 51126

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/18/2012 09:54 Calibration End Date: 07/18/2012 12:29 Calibration ID: 10168

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (NG/UL) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 |
| Caprolactam | NPT | Ave | | 9769 | 21006 | 38838 | 98604 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 213341 | 298848 | 372875 | 450162 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 4-Chloro-3-methylphenol | NPT | Ave | | 30599 | 62468 | 121795 | 307028 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 652333 | 932614 | 1170921 | 1433960 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 2-Methylnaphthalene | NPT | Ave | 9082 | 44773 | 90380 | 168787 | 456312 | 0.100 | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 958125 | 1387050 | 1682494 | 2170404 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 2,4-Dinitrophenol | ANT | Qua | | +++++ | 22239 | 54331 | 171035 | | +++++ | 2.00 | 4.00 | 10.0 |
| | | | 351602 | 522939 | 705135 | 893124 | | 20.0 | 30.0 | 40.0 | 50.0 | |
| 1-Methylnaphthalene | NPT | Ave | 9340 | 43534 | 87436 | 162014 | 432630 | 0.100 | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 929968 | 1306750 | 1613960 | 2069472 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 1,2,3,5-Tetrachlorobenzene | ANT | Ave | | 22000 | 48412 | 87429 | 233699 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 495583 | 709534 | 875500 | 1122799 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| Hexachlorocyclopentadiene | ANT | Ave | | 14248 | 30053 | 54879 | 163951 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 334724 | 475874 | 591853 | 747088 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 2,4,6-Trichlorophenol | ANT | Ave | | 12365 | 29256 | 55620 | 141192 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 293735 | 420963 | 532807 | 645145 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 2,4,5-Trichlorophenol | ANT | Ave | | 13814 | 31095 | 56914 | 151033 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 307199 | 441936 | 567334 | 685809 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 1,1'-Biphenyl | ANT | Ave | 11828 | 55358 | 114932 | 213002 | 555052 | 0.100 | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 1210849 | 1780197 | 2221369 | 2820967 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 1,2,3,4 -Tetrachlorobenzene | ANT | Ave | | 22203 | 45287 | 85883 | 224435 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 471630 | 687791 | 861130 | 1080791 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 2-Chloronaphthalene | ANT | Ave | 10637 | 49623 | 98819 | 179633 | 483946 | 0.100 | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 1006367 | 1423276 | 1803471 | 2259341 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 4,6-Dinitro-2-methylphenol | PHN | Ave | | +++++ | 15335 | 34941 | 101469 | | +++++ | 1.00 | 2.00 | 5.00 |
| | | | 202965 | 294742 | 384981 | 474286 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 2-Nitroaniline | ANT | Ave | | 25528 | 53359 | 97510 | 254383 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 546060 | 773722 | 970042 | 1172225 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| Dimethyl phthalate | ANT | Ave | | 47820 | 99802 | 193800 | 493649 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 1051854 | 1502123 | 1937603 | 2267652 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 2,6-Dinitrotoluene | ANT | Ave | | 11965 | 27138 | 49221 | 135971 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 282838 | 405384 | 511477 | 610742 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 1,2-Dinitrobenzene | ANT | Ave | | 5941 | 13287 | 23910 | 65765 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 136595 | 194716 | 246786 | 292703 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| Acenaphthylene | ANT | Ave | 14758 | 67505 | 142490 | 268922 | 703494 | 0.100 | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 1492657 | 2180729 | 2690871 | 3351907 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 3-Nitroaniline | ANT | Ave | | 13678 | 26143 | 51200 | 132536 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 275310 | 392623 | 490721 | 591509 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| Acenaphthene | ANT | Ave | 9923 | 44956 | 93781 | 169015 | 446894 | 0.100 | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 976775 | 1406421 | 1821705 | 2261231 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 4-Nitrophenol | ANT | Ave | | 10039 | 21910 | 49651 | 117723 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 254150 | 372343 | 475966 | 574831 | | 10.0 | 15.0 | 20.0 | 25.0 | |

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 51126

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/18/2012 09:54 Calibration End Date: 07/18/2012 12:29 Calibration ID: 10168

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (NG/UL) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 |
| 2,4-Dinitrotoluene | ANT | Ave | 392211 | 16618<br>547362 | 35120<br>692226 | 71163<br>823878 | 182001 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Dibenzofuran | ANT | Ave | 11671<br>1278463 | 57265<br>1817428 | 123855<br>2341633 | 232927<br>2879139 | 589616 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 2,3,5,6-Tetrachlorophenol | ANT | Ave | 255156 | 10951<br>370034 | 25704<br>462907 | 46541<br>566840 | 122470 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Diethyl phthalate | ANT | Ave | 1094186 | 52680<br>1585901 | 107334<br>2031889 | 204493<br>2427184 | 511351 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 4-Chlorophenyl phenyl ether | ANT | Ave | 586997 | 27816<br>842977 | 57776<br>1094497 | 107825<br>1337996 | 274034 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 4-Nitroaniline | ANT | Ave | 301207 | 13668<br>446851 | 26806<br>560532 | 53225<br>692149 | 143620 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Fluorene | ANT | Ave | 10511<br>1109459 | 51596<br>1583746 | 101615<br>2046250 | 196904<br>2488820 | 500097 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| N-Nitrosodiphenylamine | PHN | Ave | 793266 | 37327<br>1155629 | 76429<br>1460036 | 139858<br>1789762 | 370767 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 1,2-Diphenylhydrazine(as Azobenzene) | PHN | Ave | 2056069 | 96723<br>2886170 | 194866<br>3741762 | 362545<br>4557477 | 912768 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Azobenzene | PHN | Ave | 2057328 | 96723<br>2887015 | 195624<br>3741762 | 362912<br>4557477 | 914210 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 4-Bromophenyl phenyl ether | PHN | Ave | 295683 | 13688<br>417648 | 27658<br>548806 | 56107<br>672628 | 140041 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Hexachlorobenzene | PHN | Ave | 2420<br>242683 | 11654<br>354406 | 25666<br>453288 | 43120<br>555436 | 114513 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Atrazine | PHN | Ave | 260985 | 12690<br>368690 | 26088<br>461959 | 50541<br>502511 | 123851 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Pentachlorophenol | PHN | Ave | 340136 | 10705<br>520044 | 27120<br>714720 | 60432<br>854215 | 173344 | 20.0 | 1.00<br>30.0 | 2.00<br>40.0 | 4.00<br>50.0 | 10.0 |
| Phenanthrene | PHN | Ave | 14959<br>1534501 | 69461<br>2194483 | 141052<br>2910887 | 269901<br>3542300 | 700752 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Anthracene | PHN | Ave | 14973<br>1595408 | 70982<br>2307444 | 143719<br>3013283 | 282565<br>3683461 | 738003 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Carbazole | PHN | Ave | 1460604 | 66493<br>2133331 | 137511<br>2760000 | 258907<br>3364963 | 676899 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Di-n-butyl phthalate | PHN | Ave | 1940699 | 86647<br>2825366 | 178433<br>3673147 | 340224<br>4515087 | 884216 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Fluoranthene | PHN | Ave | 15380<br>1756694 | 76584<br>2530001 | 158160<br>3321472 | 297770<br>4031225 | 780765 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Benzidine | CRY | Ave | 1005207 | 37861<br>1391486 | 83858<br>1774159 | 157660<br>2028270 | 451558 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Pyrene | CRY | Ave | 15475<br>1780834 | 78087<br>2599306 | 163738<br>3390702 | 307182<br>4110657 | 811562 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 51126

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/18/2012 09:54 Calibration End Date: 07/18/2012 12:29 Calibration ID: 10168

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (NG/UL) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 |
| Butyl benzyl phthalate | CRY | Ave | 902976 | 39220<br>1292753 | 78236<br>1676007 | 148410<br>2029074 | 413708 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 3,3'-Dimethoxybenzidine | CRY | Ave | 451554 | 14731<br>650631 | 35787<br>841200 | 71440<br>1035799 | 205233 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Bis(2-ethylhexyl) phthalate | CRY | Ave | 1293683 | 54633<br>1902299 | 113996<br>2533465 | 216729<br>2995020 | 577959 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 4,4'-Methylene bis(2-chloroaniline) | CRY | Ave | 341619 | 12077<br>502640 | 28672<br>647765 | 58105<br>781950 | 155869 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 3,3'-Dichlorobenzidine | CRY | Ave | 593873 | 24057<br>869649 | 51178<br>1127201 | 103254<br>1372454 | 275600 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Benzo[a]anthracene | CRY | Ave | 15896<br>1610998 | 73302<br>2317236 | 150585<br>2993054 | 284468<br>3668519 | 748393 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Chrysene | CRY | Ave | 13635<br>1454333 | 64783<br>2111231 | 135023<br>2718553 | 255795<br>3307783 | 666815 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Di-n-octyl phthalate | PRY | Ave | 2137358 | 84638<br>3154652 | 177884<br>4154760 | 356185<br>4940547 | 972514 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Benzo[b]fluoranthene | PRY | Ave | 11607<br>1434756 | 58550<br>2155214 | 128668<br>2961877 | 246499<br>3643753 | 647019 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Benzo[k]fluoranthene | PRY | Ave | 12994<br>1537154 | 63737<br>2180810 | 132137<br>2702647 | 262712<br>3198979 | 732601 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Benzo[a]pyrene | PRY | Ave | 11119<br>1373355 | 57887<br>1975155 | 122325<br>2549325 | 235577<br>3096990 | 621870 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Indeno[1,2,3-cd]pyrene | PRY | Ave | 11874<br>1470304 | 58817<br>2141861 | 124746<br>2782826 | 248772<br>3353224 | 664217 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Dibenzo(a,h)anthracene | PRY | Ave | 8545<br>1208702 | 45022<br>1780024 | 99674<br>2337887 | 198313<br>2828627 | 552455 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Benzo[g,h,i]perylene | PRY | Ave | 10194<br>1167846 | 50121<br>1688844 | 102072<br>2203148 | 204368<br>2708116 | 539081 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 2-Fluorophenol (Surr) | DCB | Ave | 579220 | 26833<br>841546 | 58340<br>949656 | 106342<br>1291383 | 277319 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Phenol-d5 (Surr) | DCB | Ave | 917484 | 43668<br>1284246 | 88125<br>1509784 | 162691<br>2018213 | 426825 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Nitrobenzene-d5 (Surr) | NPT | Ave | 12008<br>1118574 | 53602<br>1532549 | 115332<br>1830441 | 204684<br>2339450 | 513749 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 2-Fluorobiphenyl (Surr) | ANT | Ave | 11771<br>1207870 | 57574<br>1693813 | 119241<br>2203297 | 226102<br>2691530 | 568077 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 2,4,6-Tribromophenol (Surr) | ANT | Ave | 92040 | 3847<br>136763 | 10212<br>171514 | 15610<br>207009 | 44507 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Terphenyl-d14 (Surr) | CRY | Ave | 9948<br>1055761 | 44868<br>1528282 | 92572<br>2021235 | 177416<br>2417738 | 476164 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 51126

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/18/2012 09:54 Calibration End Date: 07/18/2012 12:29 Calibration ID: 10168

Curve Type Legend:

| |
|---|
| Ave = Average ISTD |
| Qua = Quadratic ISTD |

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Lab Sample ID: ICV 240-51126/11  Calibration Date: 07/18/2012 12:49

Instrument ID: A4HP9  Calib Start Date: 07/18/2012 09:54

GC Column: RXI-5SILMS  ID: 0.45(mm)  Calib End Date: 07/18/2012 12:29

Lab File ID: 20718011.D  Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | Ave | 0.9869 | 0.9789 | | 9.92 | 10.0 | -0.8 | 30.0 |
| N-Nitrosodimethylamine | Ave | 1.758 | 1.823 | | 10.4 | 10.0 | 3.7 | 30.0 |
| Pyridine | Ave | 2.922 | 2.915 | | 9.98 | 10.0 | -0.2 | 30.0 |
| Ethyl methacrylate | Ave | 2.432 | 2.469 | | 10.2 | 10.0 | 1.5 | 30.0 |
| 3-Chloropropionitrile | Ave | 1.192 | 1.243 | | 10.4 | 10.0 | 4.3 | 30.0 |
| Malononitrile | Ave | 2.926 | 3.287 | | 11.2 | 10.0 | 12.4 | 30.0 |
| Benzaldehyde | Ave | 2.594 | 2.102 | 0.0100 | 8.10 | 10.0 | -19.0 | 30.0 |
| Phenol | Ave | 2.956 | 2.986 | 0.8000 | 10.1 | 10.0 | 1.0 | 30.0 |
| Aniline | Ave | 3.816 | 3.742 | | 9.81 | 10.0 | -1.9 | 30.0 |
| Bis(2-chloroethyl)ether | Ave | 2.802 | 2.764 | 0.7000 | 9.86 | 10.0 | -1.4 | 30.0 |
| 2-Chlorophenol | Ave | 1.511 | 1.481 | 0.8000 | 9.80 | 10.0 | -2.0 | 30.0 |
| 1,3-Dichlorobenzene | Ave | 1.774 | 1.750 | | 9.86 | 10.0 | -1.4 | 30.0 |
| 1,4-Dichlorobenzene | Ave | 1.622 | 1.631 | | 10.1 | 10.0 | 0.5 | 30.0 |
| Benzyl alcohol | Ave | 1.332 | 1.322 | | 9.93 | 10.0 | -0.7 | 30.0 |
| 1,2-Dichlorobenzene | Ave | 1.672 | 1.684 | | 10.1 | 10.0 | 0.7 | 30.0 |
| 2-Methylphenol | Ave | 1.863 | 1.797 | 0.7000 | 9.65 | 10.0 | -3.5 | 30.0 |
| 2,2'-oxybis[1-chloropropane] | Ave | 2.139 | 2.152 | | 10.1 | 10.0 | 0.6 | 30.0 |
| 3 & 4 Methylphenol | Ave | 1.974 | 1.908 | | 9.66 | 10.0 | -3.4 | 30.0 |
| N-Nitrosodi-n-propylamine | Ave | 2.246 | 2.199 | 0.5000 | 9.79 | 10.0 | -2.1 | 30.0 |
| Acetophenone | Ave | 2.951 | 2.877 | 0.0100 | 9.75 | 10.0 | -2.5 | 30.0 |
| Hexachloroethane | Ave | 0.8110 | 0.8215 | 0.3000 | 10.1 | 10.0 | 1.3 | 30.0 |
| Nitrobenzene | Ave | 0.8483 | 0.8647 | 0.2000 | 10.2 | 10.0 | 1.9 | 30.0 |
| Isophorone | Ave | 1.305 | 1.297 | 0.4000 | 9.93 | 10.0 | -0.7 | 30.0 |
| 2,4-Dimethylphenol | Ave | 0.5830 | 0.5735 | 0.2000 | 9.84 | 10.0 | -1.6 | 30.0 |
| 2-Nitrophenol | Ave | 0.2170 | 0.2090 | 0.1000 | 9.63 | 10.0 | -3.7 | 30.0 |
| 1,3,5-Trichlorobenzene | Ave | 0.3768 | 0.3676 | | 9.76 | 10.0 | -2.4 | 30.0 |
| Bis(2-chloroethoxy)methane | Ave | 0.7761 | 0.7731 | 0.3000 | 9.96 | 10.0 | -0.4 | 30.0 |
| Benzoic acid | Qua | | 0.2426 | | 19.2 | 20.0 | -4.0 | 30.0 |
| 2,4-Dichlorophenol | Ave | 0.2931 | 0.2878 | 0.2000 | 9.82 | 10.0 | -1.8 | 30.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.3706 | 0.3711 | | 10.0 | 10.0 | 0.1 | 30.0 |
| Naphthalene | Ave | 1.072 | 1.043 | 0.7000 | 9.73 | 10.0 | -2.7 | 30.0 |
| 4-Chloroaniline | Ave | 0.4919 | 0.4785 | 0.0100 | 9.73 | 10.0 | -2.7 | 30.0 |
| Hexachlorobutadiene | Ave | 0.2081 | 0.2062 | 0.0100 | 9.91 | 10.0 | -0.9 | 30.0 |
| 1,2,3-Trichlorobenzene | Ave | 0.3449 | 0.3369 | | 9.77 | 10.0 | -2.3 | 30.0 |
| Caprolactam | Ave | 0.1584 | 0.1522 | 0.0100 | 9.61 | 10.0 | -3.9 | 30.0 |
| 4-Chloro-3-methylphenol | Ave | 0.4923 | 0.4977 | 0.2000 | 10.1 | 10.0 | 1.1 | 30.0 |
| 2-Methylnaphthalene | Ave | 0.7210 | 0.7088 | 0.4000 | 9.83 | 10.0 | -1.7 | 30.0 |
| 1-Methylnaphthalene | Ave | 0.6969 | 0.6868 | | 9.85 | 10.0 | -1.5 | 30.0 |
| 1,2,3,5-Tetrachlorobenzene | Ave | 0.6194 | 0.6179 | | 9.98 | 10.0 | -0.2 | 30.0 |
| Hexachlorocyclopentadiene | Ave | 0.4098 | 0.4229 | 0.0500 | 10.3 | 10.0 | 3.2 | 30.0 |
| 2,4,6-Trichlorophenol | Ave | 0.3696 | 0.3655 | 0.2000 | 9.89 | 10.0 | -1.1 | 30.0 |

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Lab Sample ID: ICV 240-51126/11 Calibration Date: 07/18/2012 12:49

Instrument ID: A4HP9 Calib Start Date: 07/18/2012 09:54

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 07/18/2012 12:29

Lab File ID: 20718011.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 2,4,5-Trichlorophenol | Ave | 0.3921 | 0.4027 | 0.2000 | 10.3 | 10.0 | 2.7 | 30.0 |
| 2,4-Toluene diamine | Ave | 0.2444 | 0.1701 | | 6.96 | 10.0 | -30.4* | 30.0 |
| 1,1'-Biphenyl | Ave | 1.539 | 1.491 | 0.0100 | 9.69 | 10.0 | -3.1 | 30.0 |
| 1,2,3,4 -Tetrachlorobenzene | Ave | 0.6000 | 0.5984 | | 9.97 | 10.0 | -0.3 | 30.0 |
| 2-Chloronaphthalene | Ave | 1.299 | 1.238 | 0.8000 | 9.53 | 10.0 | -4.7 | 30.0 |
| 2-Nitroaniline | Ave | 0.6809 | 0.6960 | 0.0100 | 10.2 | 10.0 | 2.2 | 30.0 |
| Dimethyl phthalate | Ave | 1.317 | 1.343 | 0.0100 | 10.2 | 10.0 | 1.9 | 30.0 |
| 2,6-Dinitrotoluene | Ave | 0.3500 | 0.3591 | | 10.3 | 10.0 | 2.6 | 30.0 |
| 1,2-Dinitrobenzene | Ave | 0.1696 | 0.1692 | | 9.97 | 10.0 | -0.3 | 30.0 |
| Acenaphthylene | Ave | 1.895 | 1.877 | 0.9000 | 9.91 | 10.0 | -0.9 | 30.0 |
| 3-Nitroaniline | Ave | 0.3481 | 0.3458 | 0.0100 | 9.93 | 10.0 | -0.7 | 30.0 |
| 2,4-Dinitrophenol | Qua | | 0.2131 | 0.0100 | 18.9 | 20.0 | -5.5 | 30.0 |
| Acenaphthene | Ave | 1.245 | 1.220 | 0.9000 | 9.80 | 10.0 | -2.0 | 30.0 |
| 4-Nitrophenol | Ave | 0.3159 | 0.3261 | | 10.3 | 10.0 | 3.3 | 30.0 |
| 2,4-Dinitrotoluene | Ave | 0.4767 | 0.4757 | 0.2000 | 9.98 | 10.0 | -0.2 | 30.0 |
| Dibenzofuran | Ave | 1.605 | 1.591 | 0.8000 | 9.91 | 10.0 | -0.9 | 30.0 |
| 2,3,5,6-Tetrachlorophenol | Ave | 0.3217 | 0.3115 | | 9.68 | 10.0 | -3.2 | 30.0 |
| Diethyl phthalate | Ave | 1.396 | 1.388 | 0.0100 | 9.94 | 10.0 | -0.6 | 30.0 |
| 4-Chlorophenyl phenyl ether | Ave | 0.7485 | 0.7297 | 0.4000 | 9.75 | 10.0 | -2.5 | 30.0 |
| 4-Nitroaniline | Ave | 0.3791 | 0.3846 | 0.0100 | 10.1 | 10.0 | 1.4 | 30.0 |
| Fluorene | Ave | 1.390 | 1.391 | 0.9000 | 10.0 | 10.0 | 0.0 | 30.0 |
| 4,6-Dinitro-2-methylphenol | Ave | 0.1535 | 0.1514 | 0.0100 | 9.86 | 10.0 | -1.4 | 30.0 |
| N-Nitrosodiphenylamine | Ave | 0.6038 | 0.6028 | 0.0100 | 9.98 | 10.0 | -0.2 | 30.0 |
| 1,2-Diphenylhydrazine(as Azobenzene) | Ave | 1.540 | 1.593 | | 10.3 | 10.0 | 3.4 | 30.0 |
| Azobenzene | Ave | 1.540 | 1.593 | | 10.3 | 10.0 | 3.4 | 30.0 |
| 4-Bromophenyl phenyl ether | Ave | 0.2258 | 0.2266 | 0.1000 | 10.0 | 10.0 | 0.4 | 30.0 |
| Hexachlorobenzene | Ave | 0.1903 | 0.1862 | 0.1000 | 9.79 | 10.0 | -2.1 | 30.0 |
| Atrazine | Ave | 0.1973 | 0.2025 | 0.0100 | 10.3 | 10.0 | 2.7 | 30.0 |
| Pentachlorophenol | Ave | 0.1284 | 0.1355 | 0.0500 | 21.1 | 20.0 | 5.6 | 30.0 |
| Phenanthrene | Ave | 1.170 | 1.157 | 0.7000 | 9.89 | 10.0 | -1.1 | 30.0 |
| Anthracene | Ave | 1.210 | 1.206 | 0.7000 | 9.97 | 10.0 | -0.3 | 30.0 |
| Carbazole | Ave | 1.111 | 1.099 | 0.0100 | 9.89 | 10.0 | -1.1 | 30.0 |
| Di-n-butyl phthalate | Ave | 1.466 | 1.475 | 0.0100 | 10.1 | 10.0 | 0.6 | 30.0 |
| Fluoranthene | Ave | 1.306 | 1.311 | 0.6000 | 10.0 | 10.0 | 0.4 | 30.0 |
| Benzidine | Ave | 0.7729 | 0.8265 | | 10.7 | 10.0 | 6.9 | 30.0 |
| Pyrene | Ave | 1.481 | 1.524 | 0.6000 | 10.3 | 10.0 | 2.9 | 30.0 |
| Butyl benzyl phthalate | Ave | 0.7326 | 0.7565 | 0.0100 | 10.3 | 10.0 | 3.3 | 30.0 |
| 3,3'-Dimethoxybenzidine | Ave | 0.3514 | 0.3850 | | 11.0 | 10.0 | 9.5 | 30.0 |
| Bis(2-ethylhexyl) phthalate | Ave | 1.063 | 1.093 | 0.0100 | 10.3 | 10.0 | 2.9 | 30.0 |
| 4,4'-Methylene bis(2-chloroaniline) | Ave | 0.2734 | 0.2922 | | 10.7 | 10.0 | 6.9 | 30.0 |

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Lab Sample ID: ICV 240-51126/11  Calibration Date: 07/18/2012 12:49

Instrument ID: A4HP9  Calib Start Date: 07/18/2012 09:54

GC Column: RXI-5SILMS  ID: 0.45(mm)  Calib End Date: 07/18/2012 12:29

Lab File ID: 20718011.D  Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 3,3'-Dichlorobenzidine | Ave | 0.4863 | 0.4993 | 0.0100 | 10.3 | 10.0 | 2.7 | 30.0 |
| Benzo[a]anthracene | Ave | 1.366 | 1.349 | 0.8000 | 9.88 | 10.0 | -1.2 | 30.0 |
| Chrysene | Ave | 1.221 | 1.242 | 0.7000 | 10.2 | 10.0 | 1.7 | 30.0 |
| Di-n-octyl phthalate | Ave | 2.471 | 2.499 | 0.0100 | 10.1 | 10.0 | 1.1 | 30.0 |
| Benzo[b]fluoranthene | Ave | 1.714 | 1.704 | 0.7000 | 9.94 | 10.0 | -0.6 | 30.0 |
| Benzo[k]fluoranthene | Ave | 1.760 | 1.776 | 0.7000 | 10.1 | 10.0 | 0.9 | 30.0 |
| Benzo[a]pyrene | Ave | 1.592 | 1.607 | 0.7000 | 10.1 | 10.0 | 0.9 | 30.0 |
| Indeno[1,2,3-cd]pyrene | Ave | 1.693 | 1.696 | 0.5000 | 10.0 | 10.0 | 0.2 | 30.0 |
| Dibenzo(a,h)anthracene | Ave | 1.367 | 1.401 | 0.4000 | 10.3 | 10.0 | 2.5 | 30.0 |
| Benzo[g,h,i]perylene | Ave | 1.379 | 1.356 | 0.5000 | 9.84 | 10.0 | -1.6 | 30.0 |
| 2-Fluorophenol (Surr) | Ave | 1.765 | 1.783 | | 10.1 | 10.0 | 1.0 | 30.0 |
| Phenol-d5 (Surr) | Ave | 2.751 | 2.750 | | 10.0 | 10.0 | -0.0 | 30.0 |
| Nitrobenzene-d5 (Surr) | Ave | 0.8440 | 0.8375 | | 9.92 | 10.0 | -0.8 | 30.0 |
| 2-Fluorobiphenyl (Surr) | Ave | 1.543 | 1.513 | | 9.81 | 10.0 | -1.9 | 30.0 |
| 2,4,6-Tribromophenol (Surr) | Ave | 0.1173 | 0.1192 | | 10.2 | 10.0 | 1.6 | 30.0 |
| Terphenyl-d14 (Surr) | Ave | 0.8748 | 0.8816 | | 10.1 | 10.0 | 0.8 | 30.0 |

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Lab File ID: 20719001.D DFTPP Injection Date: 07/19/2012

Instrument ID: A4HP9 DFTPP Injection Time: 07:31

Analysis Batch No.: 51296

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 51 | 30.0- 80.0% of mass 198 | 54.9 | |
| 68 | Less than 2.0% of mass 69 | 0.0 | (0.0)1 |
| 69 | Mass 69 relative abundance | 88.8 | |
| 70 | Less than 2.0% of mass 69 | 0.4 | (0.5)1 |
| 127 | 25.0 - 75.0% of mass 198 | 57.1 | |
| 197 | Less than 1.0% of mass 198 | 0.0 | |
| 198 | Base Peak, 100% relative abundance | 100.0 | |
| 199 | 5.0 to 9.0% of mass 198 | 7.1 | |
| 275 | 10.0- 30.0% of mass 198 | 20.7 | |
| 365 | Greater than 0.75% of mass 198 | 1.9 | |
| 441 | Present, but less than mass 443 | 1.2 | |
| 442 | 40.0 - 110.0% of mass 198 | 40.9 | |
| 443 | 15.0 - 24.0% of mass 442 | 7.8 | (19.1)2 |

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | CCV 240-51296/2 | 20719002.D | 07/19/2012 | 08:11 |
| | MB 240-50985/23-A | 20719009.D | 07/19/2012 | 10:29 |
| | LCS 240-50985/22-A | 20719010.D | 07/19/2012 | 10:48 |
| MT-SS19-0-2 | 240-13043-2 | 20719026.D | 07/19/2012 | 16:01 |

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Lab Sample ID: CCV 240-51296/2  Calibration Date: 07/19/2012 08:11

Instrument ID: A4HP9  Calib Start Date: 07/18/2012 09:54

GC Column: RXI-5SILMS  ID: 0.45(mm)  Calib End Date: 07/18/2012 12:29

Lab File ID: 20719002.D  Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | Ave | 0.9869 | 1.204 | | 12.2 | 10.0 | 22.0* | 20.0 |
| N-Nitrosodimethylamine | Ave | 1.758 | 2.082 | | 11.8 | 10.0 | 18.4 | 20.0 |
| Pyridine | Ave | 2.922 | 3.341 | | 11.4 | 10.0 | 14.3 | 20.0 |
| ~~Ethyl methacrylate~~ | Ave | 2.432 | 2.939 | | 12.1 | 10.0 | ~~20.8~~ | 20.0 |
| 3-Chloropropionitrile | Ave | 1.192 | 1.360 | | 11.4 | 10.0 | 14.1 | 20.0 |
| ~~Malononitrile~~ | Ave | 2.926 | 3.607 | | 12.3 | 10.0 | ~~23.3~~* | 20.0 |
| Benzaldehyde | Ave | 2.594 | 2.174 | 0.0100 | 8.38 | 10.0 | -16.2 | 20.0 |
| Phenol | Ave | 2.956 | 3.129 | 0.8000 | 10.6 | 10.0 | 5.8 | 20.0 |
| Aniline | Ave | 3.816 | 3.987 | | 10.4 | 10.0 | 4.5 | 20.0 |
| Bis(2-chloroethyl)ether | Ave | 2.802 | 2.978 | 0.7000 | 10.6 | 10.0 | 6.3 | 20.0 |
| 2-Chlorophenol | Ave | 1.511 | 1.581 | 0.8000 | 10.5 | 10.0 | 4.7 | 20.0 |
| 1,3-Dichlorobenzene | Ave | 1.774 | 1.842 | | 10.4 | 10.0 | 3.9 | 20.0 |
| 1,4-Dichlorobenzene | Ave | 1.622 | 1.686 | | 10.4 | 10.0 | 4.0 | 20.0 |
| Benzyl alcohol | Ave | 1.332 | 1.288 | | 9.67 | 10.0 | -3.3 | 20.0 |
| 1,2-Dichlorobenzene | Ave | 1.672 | 1.763 | | 10.5 | 10.0 | 5.4 | 20.0 |
| 2-Methylphenol | Ave | 1.863 | 1.882 | 0.7000 | 10.1 | 10.0 | 1.0 | 20.0 |
| 2,2'-oxybis[1-chloropropane] | Ave | 2.139 | 2.254 | | 10.5 | 10.0 | 5.4 | 20.0 |
| 3 & 4 Methylphenol | Ave | 1.974 | 1.977 | | 10.0 | 10.0 | 0.1 | 20.0 |
| N-Nitrosodi-n-propylamine | Ave | 2.246 | 2.334 | 0.5000 | 10.4 | 10.0 | 3.9 | 20.0 |
| Acetophenone | Ave | 2.951 | 3.050 | 0.0100 | 10.3 | 10.0 | 3.3 | 20.0 |
| Hexachloroethane | Ave | 0.8110 | 0.8408 | 0.3000 | 10.4 | 10.0 | 3.7 | 20.0 |
| Nitrobenzene | Ave | 0.8483 | 0.9277 | 0.2000 | 10.9 | 10.0 | 9.4 | 20.0 |
| Isophorone | Ave | 1.305 | 1.391 | 0.4000 | 10.7 | 10.0 | 6.5 | 20.0 |
| 2-Nitrophenol | Ave | 0.2170 | 0.2141 | 0.1000 | 9.87 | 10.0 | -1.3 | 20.0 |
| 2,4-Dimethylphenol | Ave | 0.5830 | 0.6023 | 0.2000 | 10.3 | 10.0 | 3.3 | 20.0 |
| 1,3,5-Trichlorobenzene | Ave | 0.3768 | 0.3872 | | 10.3 | 10.0 | 2.8 | 20.0 |
| Bis(2-chloroethoxy)methane | Ave | 0.7761 | 0.8165 | 0.3000 | 10.5 | 10.0 | 5.2 | 20.0 |
| Benzoic acid | Qua | | 0.2286 | | 18.2 | 20.0 | -9.0 | 20.0 |
| 2,4-Dichlorophenol | Ave | 0.2931 | 0.2879 | 0.2000 | 9.82 | 10.0 | -1.8 | 20.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.3706 | 0.3728 | | 10.1 | 10.0 | 0.6 | 20.0 |
| Naphthalene | Ave | 1.072 | 1.084 | 0.7000 | 10.1 | 10.0 | 1.1 | 20.0 |
| 4-Chloroaniline | Ave | 0.4919 | 0.4864 | 0.0100 | 9.89 | 10.0 | -1.1 | 20.0 |
| Hexachlorobutadiene | Ave | 0.2081 | 0.2149 | 0.0100 | 10.3 | 10.0 | 3.2 | 20.0 |
| 1,2,3-Trichlorobenzene | Ave | 0.3449 | 0.3487 | | 10.1 | 10.0 | 1.1 | 20.0 |
| Caprolactam | Ave | 0.1584 | 0.1588 | 0.0100 | 10.0 | 10.0 | 0.3 | 20.0 |
| 4-Chloro-3-methylphenol | Ave | 0.4923 | 0.4925 | 0.2000 | 10.0 | 10.0 | 0.0 | 20.0 |
| 2-Methylnaphthalene | Ave | 0.7210 | 0.7116 | 0.4000 | 9.87 | 10.0 | -1.3 | 20.0 |
| 1-Methylnaphthalene | Ave | 0.6969 | 0.6907 | | 9.91 | 10.0 | -0.9 | 20.0 |
| 1,2,3,5-Tetrachlorobenzene | Ave | 0.6194 | 0.6428 | | 10.4 | 10.0 | 3.8 | 20.0 |
| Hexachlorocyclopentadiene | Ave | 0.4098 | 0.4491 | 0.0500 | 11.0 | 10.0 | 9.6 | 20.0 |
| 2,4,6-Trichlorophenol | Ave | 0.3696 | 0.3683 | 0.2000 | 9.97 | 10.0 | -0.3 | 20.0 |

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Lab Sample ID: CCV 240-51296/2  Calibration Date: 07/19/2012 08:11

Instrument ID: A4HP9  Calib Start Date: 07/18/2012 09:54

GC Column: RXI-5SILMS  ID: 0.45(mm)  Calib End Date: 07/18/2012 12:29

Lab File ID: 20719002.D  Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 2,4,5-Trichlorophenol | Ave | 0.3921 | 0.3841 | 0.2000 | 9.80 | 10.0 | -2.0 | 20.0 |
| 2,4-Toluene diamine | Ave | 0.2444 | 0.2009 | | 8.22 | 10.0 | -17.8 | 20.0 |
| 1,1'-Biphenyl | Ave | 1.539 | 1.531 | 0.0100 | 9.95 | 10.0 | -0.5 | 20.0 |
| 1,2,3,4 -Tetrachlorobenzene | Ave | 0.6000 | 0.5986 | | 9.98 | 10.0 | -0.2 | 20.0 |
| 2-Chloronaphthalene | Ave | 1.299 | 1.267 | 0.8000 | 9.76 | 10.0 | -2.4 | 20.0 |
| 2-Nitroaniline | Ave | 0.6809 | 0.7716 | 0.0100 | 11.3 | 10.0 | 13.3 | 20.0 |
| Dimethyl phthalate | Ave | 1.317 | 1.353 | 0.0100 | 10.3 | 10.0 | 2.7 | 20.0 |
| 2,6-Dinitrotoluene | Ave | 0.3500 | 0.3642 | | 10.4 | 10.0 | 4.0 | 20.0 |
| 1,2-Dinitrobenzene | Ave | 0.1696 | 0.1706 | | 10.1 | 10.0 | 0.6 | 20.0 |
| Acenaphthylene | Ave | 1.895 | 1.923 | 0.9000 | 10.1 | 10.0 | 1.5 | 20.0 |
| 3-Nitroaniline | Ave | 0.3481 | 0.3446 | 0.0100 | 9.90 | 10.0 | -1.0 | 20.0 |
| 2,4-Dinitrophenol | Qua | | 0.2157 | 0.0100 | 19.1 | 20.0 | -4.5 | 20.0 |
| Acenaphthene | Ave | 1.245 | 1.231 | 0.9000 | 9.88 | 10.0 | -1.2 | 20.0 |
| 4-Nitrophenol | Ave | 0.3159 | 0.3355 | | 10.6 | 10.0 | 6.2 | 20.0 |
| 2,4-Dinitrotoluene | Ave | 0.4767 | 0.4994 | 0.2000 | 10.5 | 10.0 | 4.8 | 20.0 |
| Dibenzofuran | Ave | 1.605 | 1.612 | 0.8000 | 10.0 | 10.0 | 0.4 | 20.0 |
| 2,3,5,6-Tetrachlorophenol | Ave | 0.3217 | 0.3100 | | 9.64 | 10.0 | -3.6 | 20.0 |
| Diethyl phthalate | Ave | 1.396 | 1.428 | 0.0100 | 10.2 | 10.0 | 2.3 | 20.0 |
| 4-Chlorophenyl phenyl ether | Ave | 0.7485 | 0.7370 | 0.4000 | 9.85 | 10.0 | -1.5 | 20.0 |
| 4-Nitroaniline | Ave | 0.3791 | 0.3936 | 0.0100 | 10.4 | 10.0 | 3.8 | 20.0 |
| Fluorene | Ave | 1.390 | 1.396 | 0.9000 | 10.0 | 10.0 | 0.4 | 20.0 |
| 4,6-Dinitro-2-methylphenol | Ave | 0.1535 | 0.1589 | 0.0100 | 10.4 | 10.0 | 3.5 | 20.0 |
| N-Nitrosodiphenylamine | Ave | 0.6038 | 0.6137 | 0.0100 | 10.2 | 10.0 | 1.6 | 20.0 |
| 1,2-Diphenylhydrazine(as Azobenzene) | Ave | 1.540 | 1.710 | | 11.1 | 10.0 | 11.0 | 20.0 |
| Azobenzene | Ave | 1.540 | 1.711 | | 11.1 | 10.0 | 11.1 | 20.0 |
| 4-Bromophenyl phenyl ether | Ave | 0.2258 | 0.2252 | 0.1000 | 9.97 | 10.0 | -0.3 | 20.0 |
| Hexachlorobenzene | Ave | 0.1903 | 0.1901 | 0.1000 | 10.0 | 10.0 | -0.0 | 20.0 |
| Atrazine | Ave | 0.1973 | 0.2078 | 0.0100 | 10.5 | 10.0 | 5.4 | 20.0 |
| Pentachlorophenol | Ave | 0.1284 | 0.1196 | 0.0500 | 18.6 | 20.0 | -6.9 | 20.0 |
| Phenanthrene | Ave | 1.170 | 1.171 | 0.7000 | 10.0 | 10.0 | 0.0 | 20.0 |
| Anthracene | Ave | 1.210 | 1.234 | 0.7000 | 10.2 | 10.0 | 2.0 | 20.0 |
| Carbazole | Ave | 1.111 | 1.122 | 0.0100 | 10.1 | 10.0 | 1.0 | 20.0 |
| Di-n-butyl phthalate | Ave | 1.466 | 1.496 | 0.0100 | 10.2 | 10.0 | 2.1 | 20.0 |
| Fluoranthene | Ave | 1.306 | 1.318 | 0.6000 | 10.1 | 10.0 | 0.9 | 20.0 |
| Benzidine | Ave | 0.7729 | 0.6893 | | 8.92 | 10.0 | -10.8 | 20.0 |
| Pyrene | Ave | 1.481 | 1.541 | 0.6000 | 10.4 | 10.0 | 4.1 | 20.0 |
| Butyl benzyl phthalate | Ave | 0.7326 | 0.7706 | 0.0100 | 10.5 | 10.0 | 5.2 | 20.0 |
| 3,3'-Dimethoxybenzidine | Ave | 0.3514 | 0.3184 | | 9.06 | 10.0 | -9.4 | 20.0 |
| Bis(2-ethylhexyl) phthalate | Ave | 1.063 | 1.088 | 0.0100 | 10.2 | 10.0 | 2.4 | 20.0 |
| 4,4'-Methylene bis(2-chloroaniline) | Ave | 0.2734 | 0.2886 | | 10.6 | 10.0 | 5.5 | 20.0 |

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Lab Sample ID: CCV 240-51296/2  Calibration Date: 07/19/2012 08:11

Instrument ID: A4HP9  Calib Start Date: 07/18/2012 09:54

GC Column: RXI-5SILMS  ID: 0.45(mm)  Calib End Date: 07/18/2012 12:29

Lab File ID: 20719002.D  Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 3,3'-Dichlorobenzidine | Ave | 0.4863 | 0.4997 | 0.0100 | 10.3 | 10.0 | 2.8 | 20.0 |
| Benzo[a]anthracene | Ave | 1.366 | 1.347 | 0.8000 | 9.87 | 10.0 | -1.3 | 20.0 |
| Chrysene | Ave | 1.221 | 1.280 | 0.7000 | 10.5 | 10.0 | 4.8 | 20.0 |
| Di-n-octyl phthalate | Ave | 2.471 | 2.594 | 0.0100 | 10.5 | 10.0 | 4.9 | 20.0 |
| Benzo[b]fluoranthene | Ave | 1.714 | 1.909 | 0.7000 | 11.1 | 10.0 | 11.4 | 20.0 |
| Benzo[k]fluoranthene | Ave | 1.760 | 1.719 | 0.7000 | 9.76 | 10.0 | -2.4 | 20.0 |
| Benzo[a]pyrene | Ave | 1.592 | 1.651 | 0.7000 | 10.4 | 10.0 | 3.7 | 20.0 |
| Indeno[1,2,3-cd]pyrene | Ave | 1.693 | 1.762 | 0.5000 | 10.4 | 10.0 | 4.1 | 20.0 |
| Dibenzo(a,h)anthracene | Ave | 1.367 | 1.434 | 0.4000 | 10.5 | 10.0 | 5.0 | 20.0 |
| Benzo[g,h,i]perylene | Ave | 1.379 | 1.418 | 0.5000 | 10.3 | 10.0 | 2.8 | 20.0 |
| 2-Fluorophenol (Surr) | Ave | 1.765 | 1.917 | | 10.9 | 10.0 | 8.6 | 20.0 |
| Phenol-d5 (Surr) | Ave | 2.751 | 2.886 | | 10.5 | 10.0 | 4.9 | 20.0 |
| Nitrobenzene-d5 (Surr) | Ave | 0.8440 | 0.9263 | | 11.0 | 10.0 | 9.8 | 20.0 |
| 2-Fluorobiphenyl (Surr) | Ave | 1.543 | 1.526 | | 9.89 | 10.0 | -1.1 | 20.0 |
| 2,4,6-Tribromophenol (Surr) | Ave | 0.1173 | 0.1207 | | 10.3 | 10.0 | 2.9 | 20.0 |
| Terphenyl-d14 (Surr) | Ave | 0.8748 | 0.8709 | | 9.96 | 10.0 | -0.4 | 20.0 |

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Lab File ID: 20719009.D  Lab Sample ID: MB 240-50985/23-A

Matrix: Solid  Date Extracted: 07/17/2012 08:20

Instrument ID: A4HP9  Date Analyzed: 07/19/2012 10:29

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| | LCS 240-50985/22-A | 20719010.D | 07/19/2012 10:48 |
| MT-SS19-0-2 | 240-13043-2 | 20719026.D | 07/19/2012 16:01 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-50985/23-A

Matrix: Solid | Lab File ID: 20719009.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3540C | Date Extracted: 07/17/2012 08:20

Sample wt/vol: 30(g) | Date Analyzed: 07/19/2012 10:29

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51296 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 50 | U | 50 | 27 |
| 123-91-1 | 1,4-Dioxane | 100 | U | 100 | 22 |
| 88-06-2 | 2,4,6-Trichlorophenol | 150 | U | 150 | 80 |
| 95-95-4 | 2,4,5-Trichlorophenol | 150 | U | 150 | 25 |
| 120-83-2 | 2,4-Dichlorophenol | 150 | U | 150 | 20 |
| 105-67-9 | 2,4-Dimethylphenol | 150 | U | 150 | 20 |
| 51-28-5 | 2,4-Dinitrophenol | 330 | U | 330 | 80 |
| 121-14-2 | 2,4-Dinitrotoluene | 200 | U | 200 | 27 |
| 91-58-7 | 2-Chloronaphthalene | 50 | U | 50 | 3.3 |
| 95-57-8 | 2-Chlorophenol | 50 | U | 50 | 27 |
| 91-57-6 | 2-Methylnaphthalene | 6.7 | U | 6.7 | 3.3 |
| 95-48-7 | 2-Methylphenol | 200 | U | 200 | 80 |
| 88-74-4 | 2-Nitroaniline | 200 | U | 200 | 9.1 |
| 88-75-5 | 2-Nitrophenol | 50 | U | 50 | 27 |
| 15831-10-4 | 3 & 4 Methylphenol | 400 | U | 400 | 20 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 100 | U | 100 | 18 |
| 99-09-2 | 3-Nitroaniline | 200 | U | 200 | 16 |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 150 | U | 150 | 80 |
| 101-55-3 | 4-Bromophenyl phenyl ether | 50 | U | 50 | 13 |
| 59-50-7 | 4-Chloro-3-methylphenol | 150 | U | 150 | 21 |
| 106-47-8 | 4-Chloroaniline | 150 | U | 150 | 17 |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 50 | U | 50 | 13 |
| 100-01-6 | 4-Nitroaniline | 200 | U | 200 | 26 |
| 83-32-9 | Acenaphthene | 6.7 | U | 6.7 | 3.3 |
| 208-96-8 | Acenaphthylene | 6.7 | U | 6.7 | 3.3 |
| 98-86-2 | Acetophenone | 100 | U | 100 | 9.2 |
| 120-12-7 | Anthracene | 6.7 | U | 6.7 | 3.3 |
| 1912-24-9 | Atrazine | 200 | U | 200 | 9.1 |
| 100-52-7 | Benzaldehyde | 100 | U | 100 | 12 |
| 56-55-3 | Benzo[a]anthracene | 6.7 | U | 6.7 | 3.3 |
| 50-32-8 | Benzo[a]pyrene | 6.7 | U | 6.7 | 3.3 |
| 205-99-2 | Benzo[b]fluoranthene | 6.7 | U | 6.7 | 3.3 |
| 191-24-2 | Benzo[g,h,i]perylene | 6.7 | U | 6.7 | 3.3 |
| 207-08-9 | Benzo[k]fluoranthene | 6.7 | U | 6.7 | 3.3 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-50985/23-A

Matrix: Solid | Lab File ID: 20719009.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3540C | Date Extracted: 07/17/2012 08:20

Sample wt/vol: 30(g) | Date Analyzed: 07/19/2012 10:29

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51296 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 111-91-1 | Bis(2-chloroethoxy)methane | 100 | U | 100 | 22 |
| 111-44-4 | Bis(2-chloroethyl)ether | 100 | U | 100 | 2.0 |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 50 | U | 50 | 19 |
| 85-68-7 | Butyl benzyl phthalate | 50 | U | 50 | 10 |
| 105-60-2 | Caprolactam | 330 | U | 330 | 37 |
| 86-74-8 | Carbazole | 50 | U | 50 | 27 |
| 218-01-9 | Chrysene | 6.7 | U | 6.7 | 1.1 |
| 84-74-2 | Di-n-butyl phthalate | 50 | U | 50 | 15 |
| 117-84-0 | Di-n-octyl phthalate | 50 | U | 50 | 27 |
| 53-70-3 | Dibenzo(a,h)anthracene | 6.7 | U | 6.7 | 3.3 |
| 132-64-9 | Dibenzofuran | 50 | U | 50 | 3.3 |
| 84-66-2 | Diethyl phthalate | 50 | U | 50 | 16 |
| 131-11-3 | Dimethyl phthalate | 50 | U | 50 | 17 |
| 206-44-0 | Fluoranthene | 6.7 | U | 6.7 | 3.3 |
| 86-73-7 | Fluorene | 6.7 | U | 6.7 | 3.3 |
| 118-74-1 | Hexachlorobenzene | 6.7 | U | 6.7 | 2.1 |
| 87-68-3 | Hexachlorobutadiene | 50 | U | 50 | 27 |
| 77-47-4 | Hexachlorocyclopentadiene | 330 | U | 330 | 27 |
| 67-72-1 | Hexachloroethane | 50 | U | 50 | 9.0 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 6.7 | U | 6.7 | 3.3 |
| 78-59-1 | Isophorone | 50 | U | 50 | 13 |
| 621-64-7 | N-Nitrosodi-n-propylamine | 50 | U | 50 | 27 |
| 62-75-9 | N-Nitrosodimethylamine | 100 | U | 100 | 16 |
| 86-30-6 | N-Nitrosodiphenylamine | 50 | U | 50 | 21 |
| 91-20-3 | Naphthalene | 6.7 | U | 6.7 | 3.3 |
| 98-95-3 | Nitrobenzene | 100 | U | 100 | 2.2 |
| 87-86-5 | Pentachlorophenol | 150 | U | 150 | 80 |
| 85-01-8 | Phenanthrene | 6.7 | U | 6.7 | 3.3 |
| 108-95-2 | Phenol | 50 | U | 50 | 27 |
| 129-00-0 | Pyrene | 6.7 | U | 6.7 | 3.3 |
| 108-60-1 | 2,2'-oxybis[1-chloropropane] | 100 | U | 100 | 9.5 |
| 606-20-2 | 2,6-Dinitrotoluene | 200 | U | 200 | 21 |
| 100-02-7 | 4-Nitrophenol | 330 | U | 330 | 80 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-50985/23-A

Matrix: Solid | Lab File ID: 20719009.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3540C | Date Extracted: 07/17/2012 08:20

Sample wt/vol: 30(g) | Date Analyzed: 07/19/2012 10:29

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51296 | Units: ug/Kg

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 1718-51-0 | Terphenyl-d14 (Surr) | 67 | | 41-119 |
| 4165-62-2 | Phenol-d5 (Surr) | 61 | | 28-110 |
| 4165-60-0 | Nitrobenzene-d5 (Surr) | 54 | | 24-112 |
| 367-12-4 | 2-Fluorophenol (Surr) | 61 | | 26-110 |
| 321-60-8 | 2-Fluorobiphenyl (Surr) | 46 | | 34-110 |
| 118-79-6 | 2,4,6-Tribromophenol (Surr) | 42 | | 10-118 |

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 20719010.D

Lab ID: LCS 240-50985/22-A Client ID:

| COMPOUND | SPIKE ADDED (ug/Kg) | LCS CONCENTRATION (ug/Kg) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| 1,1'-Biphenyl | 667 | 402 | 60 | 50-130 | |
| 1,4-Dioxane | 667 | 233 | 35 | 10-110 | |
| 2,4,6-Trichlorophenol | 667 | 395 | 59 | 37-110 | |
| 2,4,5-Trichlorophenol | 667 | 420 | 63 | 42-110 | |
| 2,4-Dichlorophenol | 667 | 404 | 61 | 40-110 | |
| 2,4-Dimethylphenol | 667 | 326 | 49 | 28-110 | |
| 2,4-Dinitrophenol | 667 | 107 J | 16 | 10-110 | |
| 2,4-Dinitrotoluene | 667 | 419 | 63 | 55-116 | |
| 2-Chloronaphthalene | 667 | 349 | 52 | 46-110 | |
| 2-Chlorophenol | 667 | 404 | 61 | 39-110 | |
| 2-Methylnaphthalene | 667 | 412 | 62 | 46-110 | |
| 2-Methylphenol | 667 | 399 | 60 | 36-110 | |
| 2-Nitroaniline | 667 | 499 | 75 | 47-124 | |
| 2-Nitrophenol | 667 | 375 | 56 | 35-110 | |
| 3 & 4 Methylphenol | 1330 | 807 | 61 | 40-110 | |
| 3,3'-Dichlorobenzidine | 667 | 265 | 40 | 31-110 | |
| 3-Nitroaniline | 667 | 385 | 58 | 44-110 | |
| 4,6-Dinitro-2-methylphenol | 667 | 163 | 24 | 21-110 | |
| 4-Bromophenyl phenyl ether | 667 | 363 | 54 | 53-112 | |
| 4-Chloro-3-methylphenol | 667 | 455 | 68 | 42-110 | |
| 4-Chloroaniline | 667 | 328 | 49 | 25-110 | |
| 4-Chlorophenyl phenyl ether | 667 | 369 | 55 | 53-110 | |
| 4-Nitroaniline | 667 | 433 | 65 | 50-110 | |
| Acenaphthene | 667 | 400 | 60 | 46-110 | |
| Acenaphthylene | 667 | 411 | 62 | 47-110 | |
| Acetophenone | 667 | 429 | 64 | 50-130 | |
| Anthracene | 667 | 433 | 65 | 56-111 | |
| Atrazine | 667 | 567 | 85 | 50-130 | |
| Benzaldehyde | 667 | 386 | 58 | 10-130 | |
| Benzo[a]anthracene | 667 | 429 | 64 | 58-111 | |
| Benzo[a]pyrene | 667 | 405 | 61 | 44-115 | |
| Benzo[b]fluoranthene | 667 | 463 | 69 | 43-124 | |
| Benzo[g,h,i]perylene | 667 | 439 | 66 | 44-120 | |
| Benzo[k]fluoranthene | 667 | 424 | 64 | 38-122 | |
| Bis(2-chloroethoxy)methane | 667 | 382 | 57 | 42-110 | |
| Bis(2-chloroethyl)ether | 667 | 371 | 56 | 41-110 | |
| Bis(2-ethylhexyl) phthalate | 667 | 458 | 69 | 56-123 | |
| Butyl benzyl phthalate | 667 | 455 | 68 | 57-121 | |
| Caprolactam | 667 | 426 | 64 | 50-130 | |
| Carbazole | 667 | 441 | 66 | 56-115 | |
| Chrysene | 667 | 455 | 68 | 56-111 | |
| Di-n-butyl phthalate | 667 | 463 | 69 | 57-119 | |

# Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 20719010.D

Lab ID: LCS 240-50985/22-A Client ID:

| COMPOUND | SPIKE ADDED (ug/Kg) | LCS CONCENTRATION (ug/Kg) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| Di-n-octyl phthalate | 667 | 453 | 68 | 45-123 | |
| Dibenzo(a,h)anthracene | 667 | 449 | 67 | 45-122 | |
| Dibenzofuran | 667 | 429 | 64 | 50-110 | |
| Diethyl phthalate | 667 | 463 | 69 | 55-114 | |
| Dimethyl phthalate | 667 | 463 | 69 | 54-112 | |
| Fluoranthene | 667 | 448 | 67 | 55-118 | |
| Fluorene | 667 | 419 | 63 | 51-110 | |
| Hexachlorobenzene | 667 | 407 | 61 | 51-110 | |
| Hexachlorobutadiene | 667 | 374 | 56 | 39-110 | |
| Hexachlorocyclopentadiene | 667 | 335 | 50 | 10-110 | |
| Hexachloroethane | 667 | 393 | 59 | 38-110 | |
| Indeno[1,2,3-cd]pyrene | 667 | 435 | 65 | 45-121 | |
| Isophorone | 667 | 441 | 66 | 46-117 | |
| N-Nitrosodi-n-propylamine | 667 | 435 | 65 | 40-114 | |
| N-Nitrosodimethylamine | 667 | 426 | 64 | 10-130 | |
| N-Nitrosodiphenylamine | 667 | 415 | 62 | 54-112 | |
| Naphthalene | 667 | 421 | 63 | 42-110 | |
| Nitrobenzene | 667 | 407 | 61 | 40-110 | |
| Pentachlorophenol | 667 | 153 | 23 | 10-110 | |
| Phenanthrene | 667 | 434 | 65 | 54-110 | |
| Phenol | 667 | 425 | 64 | 39-110 | |
| Pyrene | 667 | 434 | 65 | 58-113 | |
| 2,2'-oxybis[1-chloropropane] | 667 | 394 | 59 | 36-116 | |
| 2,6-Dinitrotoluene | 667 | 409 | 61 | 54-115 | |
| 4-Nitrophenol | 667 | 372 | 56 | 24-117 | |

# Column to be used to flag recovery and RPD values

FORM III 8270D

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): RXI-5SILMS ID: 0.45 (mm)

| Client Sample ID | Lab Sample ID | 2FP # | PHL # | NBZ # | FBP # | TBP # | TPH # |
|---|---|---|---|---|---|---|---|
| MT-SS19-0-2 | 240-13043-2 | 58 | 54 | 47 | 41 | 29 | 64 |
| MT-SS19-8-10 | 240-13043-3 | 91 | 95 | 70 | 64 | 63 | 90 |
| MT-SS20-0-2 | 240-13043-4 | 79 | 84 | 63 | 60 | 67 | 88 |
| MT-SS20-8-10 | 240-13043-5 | 83 | 89 | 65 | 61 | 69 | 86 |
| MT-SS21-0-2 | 240-13043-6 | 89 | 90 | 64 | 61 | 81 | 85 |
| MT-SS21-8-10 | 240-13043-7 | 85 | 89 | 59 | 55 | 66 | 93 |
| | MB 240-50985/23-A | 61 | 61 | 54 | 46 | 42 | 67 |
| | MB 240-51193/23-A | 90 | 89 | 68 | 66 | 74 | 85 |
| | LCS 240-50985/22-A | 62 | 63 | 59 | 50 | 59 | 67 |
| | LCS 240-51193/24-A | 77 | 80 | 65 | 62 | 62 | 84 |

| | QC LIMITS |
|---|---|
| 2FP = 2-Fluorophenol (Surr) | 26-110 |
| PHL = Phenol-d5 (Surr) | 28-110 |
| NBZ = Nitrobenzene-d5 (Surr) | 24-112 |
| FBP = 2-Fluorobiphenyl (Surr) | 34-110 |
| TBP = 2,4,6-Tribromophenol (Surr) | 10-118 |
| TPH = Terphenyl-d14 (Surr) | 41-119 |

# Column to be used to flag recovery values

FORM II 8270D

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Sample No.: STD6 240-50462/10 Date Analyzed: 07/11/2012 13:51

Instrument ID: A4HP7 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 20711010.D Heated Purge: (Y/N) N

Calibration ID: 10087

| | | DCB | | NPT | | ANT | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | | 241827 | 3.53 | 1009315 | 4.42 | 537073 | 5.69 |
| UPPER LIMIT | | 483654 | 4.03 | 2018630 | 4.92 | 1074146 | 6.19 |
| LOWER LIMIT | | 120914 | 3.03 | 504658 | 3.92 | 268537 | 5.19 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| ICV 240-50462/11 | | 251581 | 3.53 | 1014354 | 4.42 | 563284 | 5.69 |
| CCV 240-51476/2 CCVIS | | 147541 | 3.41 | 588850 | 4.30 | 316710 | 5.55 |

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270D

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Sample No.: STD6 240-50462/10 Date Analyzed: 07/11/2012 13:51

Instrument ID: A4HP7 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 20711010.D Heated Purge: (Y/N) N

Calibration ID: 10087

| | | PHN | | CRY | | PRY | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | | 802137 | 6.77 | 657426 | 8.74 | 478527 | 10.16 |
| UPPER LIMIT | | 1604274 | 7.27 | 1314852 | 9.24 | 957054 | 10.66 |
| LOWER LIMIT | | 401069 | 6.27 | 328713 | 8.24 | 239264 | 9.66 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| ICV 240-50462/11 | | 896619 | 6.77 | 749467 | 8.76 | 572131 | 10.17 |
| CCV 240-51476/2 CCVIS | | 464062 | 6.63 | 370141 | 8.59 | 273986 | 9.91 |

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270D

FORM VIII

GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Sample No.: CCV 240-51476/2 Date Analyzed: 07/20/2012 09:45

Instrument ID: A4HP7 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 20720002.D Heated Purge: (Y/N) N

Calibration ID: 10099

| | | DCB | | NPT | | ANT | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 147541 | 3.41 | 588850 | 4.30 | 316710 | 5.55 |
| UPPER LIMIT | | 295082 | 3.91 | 1177700 | 4.80 | 633420 | 6.05 |
| LOWER LIMIT | | 73771 | 2.91 | 294425 | 3.80 | 158355 | 5.05 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| MB 240-51193/23-A | | 175670 | 3.40 | 741114 | 4.29 | 402126 | 5.55 |
| LCS 240-51193/24-A | | 182779 | 3.40 | 749730 | 4.29 | 406472 | 5.55 |
| 240-13043-3 | MT-SS19-8-10 | 206615 | 3.40 | 880840 | 4.30 | 516271 | 5.55 |
| 240-13043-4 | MT-SS20-0-2 | 169610 | 3.40 | 724463 | 4.30 | 424365 | 5.55 |
| 240-13043-6 | MT-SS21-0-2 | 165655 | 3.40 | 738559 | 4.30 | 423656 | 5.55 |
| 240-13043-7 | MT-SS21-8-10 | 132688 | 3.40 | 633843 | 4.29 | 372419 | 5.55 |
| 240-13043-5 | MT-SS20-8-10 | 187913 | 3.40 | 814788 | 4.29 | 488660 | 5.56 |

DCB = 1,4-Dichlorobenzene-d4

DCB = 1,4-Dichlorobenzene-d4

NPT = Naphthalene-d8

NPT = Naphthalene-d8

Area Limit = 50%-200% of internal standard area

ANT = Acenaphthene-d10

RT Limit = ± 0.5 minutes of internal standard RT

ANT = Acenaphthene-d10

# Column used to flag values outside QC limits

FORM VIII 8270D

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Sample No.: CCV 240-51476/2 Date Analyzed: 07/20/2012 09:45

Instrument ID: A4HP7 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 20720002.D Heated Purge: (Y/N) N

Calibration ID: 10099

| | | PHN | | CRY | | PRY | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 464062 | 6.63 | 370141 | 8.59 | 273986 | 9.91 |
| UPPER LIMIT | | 928124 | 7.13 | 740282 | 9.09 | 547972 | 10.41 |
| LOWER LIMIT | | 232031 | 6.13 | 185071 | 8.09 | 136993 | 9.41 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| MB 240-51193/23-A | | 604384 | 6.63 | 488598 | 8.60 | 373832 | 9.92 |
| LCS 240-51193/24-A | | 616725 | 6.63 | 511618 | 8.60 | 382252 | 9.91 |
| 240-13043-3 | MT-SS19-8-10 | 810812 | 6.63 | 681129 | 8.60 | 513813 | 9.92 |
| 240-13043-4 | MT-SS20-0-2 | 664055 | 6.63 | 585756 | 8.60 | 431405 | 9.92 |
| 240-13043-6 | MT-SS21-0-2 | 694005 | 6.63 | 599000 | 8.60 | 468852 | 9.91 |
| 240-13043-7 | MT-SS21-8-10 | 594238 | 6.63 | 498520 | 8.59 | 389175 | 9.91 |
| 240-13043-5 | MT-SS20-8-10 | 747202 | 6.63 | 645765 | 8.61 | 485483 | 9.94 |

PHN = Phenanthrene-d10
PHN = Phenanthrene-d10
CRY = Chrysene-d12
CRY = Chrysene-d12
PRY = Perylene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270D

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Sample No.: STD6 240-51126/10 Date Analyzed: 07/18/2012 12:29

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 20718010.D Heated Purge: (Y/N) N

Calibration ID: 10168

| | | DCB | | NPT | | ANT | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | | 125995 | 3.89 | 522239 | 4.85 | 307568 | 6.15 |
| UPPER LIMIT | | 251990 | 4.39 | 1044478 | 5.35 | 615136 | 6.65 |
| LOWER LIMIT | | 62998 | 3.39 | 261120 | 4.35 | 153784 | 5.65 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| ICV 240-51126/11 | | 121149 | 3.90 | 485431 | 4.85 | 288798 | 6.15 |
| CCV 240-51296/2 CCVIS | | 114867 | 3.78 | 452983 | 4.74 | 266400 | 6.04 |

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270D

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Sample No.: STD6 240-51126/10 Date Analyzed: 07/18/2012 12:29

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 20718010.D Heated Purge: (Y/N) N

Calibration ID: 10168

| | | PHN | | CRY | | PRY | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | | 516084 | 7.24 | 470428 | 9.21 | 328489 | 10.62 |
| UPPER LIMIT | | 1032168 | 7.74 | 940856 | 9.71 | 656978 | 11.12 |
| LOWER LIMIT | | 258042 | 6.74 | 235214 | 8.71 | 164245 | 10.12 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| ICV 240-51126/11 | | 477640 | 7.24 | 428408 | 9.20 | 309480 | 10.62 |
| CCV 240-51296/2 CCVIS | | 436328 | 7.12 | 393318 | 9.09 | 277198 | 10.43 |

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270D

FORM VIII

GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Sample No.: CCV 240-51296/2 Date Analyzed: 07/19/2012 08:11

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 20719002.D Heated Purge: (Y/N) N

Calibration ID: 10172

| | | DCB | | NPT | | ANT | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 114867 | 3.78 | 452983 | 4.74 | 266400 | 6.04 |
| UPPER LIMIT | | 229734 | 4.28 | 905966 | 5.24 | 532800 | 6.54 |
| LOWER LIMIT | | 57434 | 3.28 | 226492 | 4.24 | 133200 | 5.54 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| MB 240-50985/23-A | | 114812 | 3.78 | 473432 | 4.74 | 288378 | 6.03 |
| LCS 240-50985/22-A | | 111526 | 3.78 | 440744 | 4.74 | 271466 | 6.04 |
| 240-13043-2 | MT-SS19-0-2 | 119913 | 3.78 | 491140 | 4.75 | 313564 | 6.04 |

DCB = 1,4-Dichlorobenzene-d4

DCB = 1,4-Dichlorobenzene-d4

NPT = Naphthalene-d8

NPT = Naphthalene-d8

Area Limit = 50%-200% of internal standard area

ANT = Acenaphthene-d10

RT Limit = ± 0.5 minutes of internal standard RT

ANT = Acenaphthene-d10

# Column used to flag values outside QC limits

FORM VIII 8270D

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Sample No.: CCV 240-51296/2 Date Analyzed: 07/19/2012 08:11

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 20719002.D Heated Purge: (Y/N) N

Calibration ID: 10172

| | | PHN | | CRY | | PRY | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 436328 | 7.12 | 393318 | 9.09 | 277198 | 10.43 |
| UPPER LIMIT | | 872656 | 7.62 | 786636 | 9.59 | 554396 | 10.93 |
| LOWER LIMIT | | 218164 | 6.62 | 196659 | 8.59 | 138599 | 9.93 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| MB 240-50985/23-A | | 503826 | 7.12 | 436728 | 9.07 | 300929 | 10.41 |
| LCS 240-50985/22-A | | 467322 | 7.12 | 432210 | 9.08 | 298388 | 10.42 |
| 240-13043-2 | MT-SS19-0-2 | 521084 | 7.12 | 452969 | 9.08 | 336689 | 10.42 |

PHN = Phenanthrene-d10
PHN = Phenanthrene-d10
CRY = Chrysene-d12
CRY = Chrysene-d12
Area Limit = 50%-200% of internal standard area
PRY = Perylene-d12
RT Limit = ± 0.5 minutes of internal standard RT
PRY = Perylene-d12

# Column used to flag values outside QC limits

FORM VIII 8270D

# Method 8015C - GRO

## Nonhalogenated Organics using GC/FID - Modified (Gasoline Range Organics) by Method 8015C

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Instrument ID: YPID Start Date: 06/29/2012 12:53

Analysis Batch Number: 49409 End Date: 06/29/2012 18:14

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| ZZZZZ | | 06/29/2012 12:53 | 1 | | RTX-VRX 0.45(mm) |
| STD1 240-49409/4 IC | | 06/29/2012 13:39 | 1 | YF062904.D | RTX-VRX 0.45(mm) |
| STD2 240-49409/5 IC | | 06/29/2012 14:26 | 1 | YF062905.D | RTX-VRX 0.45(mm) |
| STD3 240-49409/6 ICRT | | 06/29/2012 15:12 | 1 | YF062906.D | RTX-VRX 0.45(mm) |
| STD4 240-49409/7 IC | | 06/29/2012 15:59 | 1 | YF062907.D | RTX-VRX 0.45(mm) |
| STD5 240-49409/8 IC | | 06/29/2012 16:45 | 1 | YF062908.D | RTX-VRX 0.45(mm) |
| STD6 240-49409/9 IC | | 06/29/2012 17:30 | 1 | YF062909.D | RTX-VRX 0.45(mm) |
| ICV 240-49409/10 | | 06/29/2012 18:14 | 1 | YF062910.D | RTX-VRX 0.45(mm) |

FORM VI
GC VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-13043-1  Analy Batch No.: 49409

SDG No.:

Instrument ID: YPID  GC Column: RTX-VRX  ID: 0.45(mm)  Heated Purge: (Y/N) N

Calibration Start Date: 06/29/2012 13:39  Calibration End Date: 06/29/2012 17:30  Calibration ID: 9879

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-49409/4 | YF062904.D |
| Level 2 | STD2 240-49409/5 | YF062905.D |
| Level 3 | STD3 240-49409/6 | YF062906.D |
| Level 4 | STD4 240-49409/7 | YF062907.D |
| Level 5 | STD5 240-49409/8 | YF062908.D |
| Level 6 | STD6 240-49409/9 | YF062909.D |

| ANALYTE | CF | | | | CURVE TYPE | COEFFICIENT | | | # | MIN CF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 5 | LVL 2<br>LVL 6 | LVL 3 | LVL 4 | | B | M1 | M2 | | | | | | | | |
| Total Petroleum Hydrocarbons (C6-C10) | 396398<br>309079 | 363256<br>311555 | 337661 | 315467 | Ave | | 338902.687 | | | | 10.0 | | 20.0 | | | |
| C6-C12 | 482905<br>340285 | 415902<br>342255 | 378953 | 348850 | Ave | | 384858.436 | | | | 15.0 | | 20.0 | | | |
| Trifluorotoluene (Surr) | 284961<br>354937 | 292193<br>411371 | 314695 | 335646 | Ave | | 332300.483 | | | | 14.0 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 49409

SDG No.:

Instrument ID: YPID GC Column: RTX-VRX ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/29/2012 13:39 Calibration End Date: 06/29/2012 17:30 Calibration ID: 9879

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-49409/4 | YF062904.D |
| Level 2 | STD2 240-49409/5 | YF062905.D |
| Level 3 | STD3 240-49409/6 | YF062906.D |
| Level 4 | STD4 240-49409/7 | YF062907.D |
| Level 5 | STD5 240-49409/8 | YF062908.D |
| Level 6 | STD6 240-49409/9 | YF062909.D |

| ANALYTE | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Total Petroleum Hydrocarbons (C6-C10) | Ave | 39639848<br>498488116 | 72651167 | 135064343 | 252373251 | 370895176 | 100<br>1600 | 200 | 400 | 800 | 1200 |
| C6-C12 | Ave | 48290496<br>547607937 | 83180479 | 151581393 | 279079607 | 408342372 | 100<br>1600 | 200 | 400 | 800 | 1200 |
| Trifluorotoluene (Surr) | Ave | 2849611<br>4113708 | 2921931 | 3146947 | 3356464 | 3549368 | 10.0<br>10.0 | 10.0 | 10.0 | 10.0 | 10.0 |

Curve Type Legend:
Ave = Average

FORM VI
GC VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 49409

SDG No.:

Instrument ID: YPID GC Column: RTX-VRX ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/29/2012 13:39 Calibration End Date: 06/29/2012 17:30 Calibration ID: 9879

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-49409/4 | YF062904.D |
| Level 2 | STD2 240-49409/5 | YF062905.D |
| Level 3 | STD3 240-49409/6 | YF062906.D |
| Level 4 | STD4 240-49409/7 | YF062907.D |
| Level 5 | STD5 240-49409/8 | YF062908.D |
| Level 6 | STD6 240-49409/9 | YF062909.D |

| ANALYTE | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 6 | | | | | RT WINDOW | AVG RT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C6-C10) | 11.788 | 11.788 | 11.788 | 11.788 | 11.788 | 11.788 | | | | | 4.772 - 18.803 | 11.788 |
| C6-C12 | 13.379 | 13.379 | 13.379 | 13.379 | 13.379 | 13.379 | | | | | 4.872 - 21.887 | 13.379 |
| Trifluorotoluene (Surr) | 9.737 | 9.739 | 9.733 | 9.735 | 9.744 | 9.745 | | | | | 9.485 - 9.985 | 9.739 |

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Lab Sample ID: ICV 240-49409/10 Calibration Date: 06/29/2012 18:14

Instrument ID: YPID Calib Start Date: 06/29/2012 13:39

GC Column: RTX-VRX ID: 0.45(mm) Calib End Date: 06/29/2012 17:30

Lab File ID: YF062910.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C6-C10) | Ave | 338903 | 340389 | | 804 | 800 | 0.4 | 20.0 |
| C6-C12 | Ave | 384858 | 387501 | | 806 | 800 | 0.7 | 20.0 |
| Trifluorotoluene (Surr) | Ave | 332300 | 330492 | | 9.95 | 10.0 | -0.5 | 20.0 |

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Lab Sample ID: ICV 240-49409/10 Calibration Date: 06/29/2012 18:14

Instrument ID: YPID Calib Start Date: 06/29/2012 13:39

GC Column: RTX-VRX ID: 0.45(mm) Calib End Date: 06/29/2012 17:30

Lab File ID: YF062910.D Heated Purge: (Y/N) N

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | TO | FROM |
| Total Petroleum Hydrocarbons (C6-C10) | 11.79 | 4.77 | 18.80 |
| C6-C12 | 13.38 | 4.87 | 21.89 |
| Trifluorotoluene (Surr) | 9.75 | 9.49 | 9.99 |

FORM VIII
GC VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Sample No.: CCV 240-51212/5  Date Analyzed: 07/18/2012 15:29

Instrument ID: YPID  GC Column: RTX-VRX  ID: 0.45(mm)

Lab File ID (Standard): YF071805.D  Heated Purge: (Y/N) N

Calibration ID: 9879

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

| | | | | TFT RT # | | |
|---|---|---|---|---|---|---|
| CONTINUING CALIBRATION SURROGATE | | | | 9.75 | | |
| UPPER LIMIT | | | | 9.85 | | |
| LOWER LIMIT | | | | 9.65 | | |
| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | LAB FILE ID | | | |
| CCV 240-51212/5 CCVRT | | 07/18/2012 15:29 | YF071805.D | 9.75 | | |
| MB 240-51212/6 | | 07/18/2012 16:09 | YF071806.D | 9.75 | | |
| LCS 240-51212/7 | | 07/18/2012 16:49 | YF071807.D | 9.76 | | |
| CCV 240-51212/16 | | 07/18/2012 22:42 | YF071816.D | 9.75 | | |
| 240-13043-2 | MT-SS19-0-2 | 07/19/2012 02:02 | YF071821.D | 9.75 | | |
| 240-13043-3 | MT-SS19-8-10 | 07/19/2012 02:41 | YF071822.D | 9.75 | | |
| 240-13043-4 | MT-SS20-0-2 | 07/19/2012 03:20 | YF071823.D | 9.75 | | |
| 240-13043-5 | MT-SS20-8-10 | 07/19/2012 04:00 | YF071824.D | 9.75 | | |
| 240-13043-6 | MT-SS21-0-2 | 07/19/2012 04:39 | YF071825.D | 9.75 | | |
| 240-13043-7 | MT-SS21-8-10 | 07/19/2012 05:18 | YF071826.D | 9.75 | | |
| CCV 240-51212/27 | | 07/19/2012 05:57 | YF071827.D | 9.76 | | |

TFT = Trifluorotoluene (Surr)

TFT RT Limit = ± 0.1 minutes of surrogate RT

# Column used to flag values outside QC limits

FORM VIII 8015C

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Instrument ID: YPID Start Date: 07/18/2012 15:29

Analysis Batch Number: 51212 End Date: 07/19/2012 05:57

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| CCV 240-51212/5 CCVRT | | 07/18/2012 15:29 | 1 | YF071805.D | RTX-VRX 0.45(mm) |
| MB 240-51212/6 | | 07/18/2012 16:09 | 1 | YF071806.D | RTX-VRX 0.45(mm) |
| LCS 240-51212/7 | | 07/18/2012 16:49 | 1 | YF071807.D | RTX-VRX 0.45(mm) |
| ZZZZZ | | 07/18/2012 20:06 | 2 | | RTX-VRX 0.45(mm) |
| ZZZZZ | | 07/18/2012 20:45 | 1 | | RTX-VRX 0.45(mm) |
| ZZZZZ | | 07/18/2012 21:23 | 1 | | RTX-VRX 0.45(mm) |
| ZZZZZ | | 07/18/2012 22:01 | 1 | | RTX-VRX 0.45(mm) |
| CCV 240-51212/16 | | 07/18/2012 22:42 | 1 | YF071816.D | RTX-VRX 0.45(mm) |
| 240-13043-2 | MT-SS19-0-2 | 07/19/2012 02:02 | 1 | YF071821.D | RTX-VRX 0.45(mm) |
| 240-13043-3 | MT-SS19-8-10 | 07/19/2012 02:41 | 1 | YF071822.D | RTX-VRX 0.45(mm) |
| 240-13043-4 | MT-SS20-0-2 | 07/19/2012 03:20 | 1 | YF071823.D | RTX-VRX 0.45(mm) |
| 240-13043-5 | MT-SS20-8-10 | 07/19/2012 04:00 | 1 | YF071824.D | RTX-VRX 0.45(mm) |
| 240-13043-6 | MT-SS21-0-2 | 07/19/2012 04:39 | 1 | YF071825.D | RTX-VRX 0.45(mm) |
| 240-13043-7 | MT-SS21-8-10 | 07/19/2012 05:18 | 1 | YF071826.D | RTX-VRX 0.45(mm) |
| CCV 240-51212/27 | | 07/19/2012 05:57 | 1 | YF071827.D | RTX-VRX 0.45(mm) |

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Lab Sample ID: CCV 240-51212/5 Calibration Date: 07/18/2012 15:29

Instrument ID: YPID Calib Start Date: 06/29/2012 13:39

GC Column: RTX-VRX ID: 0.45(mm) Calib End Date: 06/29/2012 17:30

Lab File ID: YF071805.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C6-C10) | Ave | 338903 | 308811 | | 729 | 800 | -8.9 | 20.0 |
| C6-C12 | Ave | 384858 | 343108 | | 713 | 800 | -10.8 | 20.0 |
| Trifluorotoluene (Surr) | Ave | 332300 | 353218 | | 10.6 | 10.0 | 6.3 | 20.0 |

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Lab Sample ID: CCV 240-51212/5 Calibration Date: 07/18/2012 15:29

Instrument ID: YPID Calib Start Date: 06/29/2012 13:39

GC Column: RTX-VRX ID: 0.45(mm) Calib End Date: 06/29/2012 17:30

Lab File ID: YF071805.D Heated Purge: (Y/N) N

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | TO | FROM |
| Total Petroleum Hydrocarbons (C6-C10) | 11.79 | 4.79 | 18.79 |
| C6-C12 | 13.46 | 4.89 | 22.02 |
| Trifluorotoluene (Surr) | 9.75 | 9.50 | 10.00 |

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Lab Sample ID: CCV 240-51212/16 Calibration Date: 07/18/2012 22:42

Instrument ID: YPID Calib Start Date: ~~06/29/2012~~ 13:39

GC Column: RTX-VRX ID: 0.45(mm) Calib End Date: 06/29/2012 17:30

Lab File ID: YF071816.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C6-C10) | Ave | 338903 | 277442 | | 655 | 800 | -18.1 | 20.0 |
| C6-C12 | Ave | 384858 | 308426 | | 641 | 800 | -19.9 | 20.0 |
| Trifluorotoluene (Surr) | Ave | 332300 | 315730 | | 9.50 | 10.0 | -5.0 | 20.0 |

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Lab Sample ID: CCV 240-51212/16 Calibration Date: 07/18/2012 22:42

Instrument ID: YPID Calib Start Date: 06/29/2012 13:39

GC Column: RTX-VRX ID: 0.45(mm) Calib End Date: 06/29/2012 17:30

Lab File ID: YF071816.D Heated Purge: (Y/N) N

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | TO | FROM |
| Total Petroleum Hydrocarbons (C6-C10) | 11.79 | 4.79 | 18.79 |
| C6-C12 | 13.46 | 4.89 | 22.02 |
| Trifluorotoluene (Surr) | 9.75 | 9.50 | 10.00 |

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Lab Sample ID: CCV 240-51212/27 Calibration Date: 07/19/2012 05:57

Instrument ID: YPID Calib Start Date: 06/29/2012 13:39

GC Column: RTX-VRX ID: 0.45(mm) Calib End Date: 06/29/2012 17:30

Lab File ID: YF071827.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C6-C10) | Ave | 338903 | 303506 | | 716 | 800 | -10.4 | 20.0 |
| C6-C12 | Ave | 384858 | 336809 | | 700 | 800 | -12.5 | 20.0 |
| Trifluorotoluene (Surr) | Ave | 332300 | 330497 | | 9.95 | 10.0 | -0.5 | 20.0 |

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Lab Sample ID: CCV 240-51212/27 Calibration Date: 07/19/2012 05:57

Instrument ID: YPID Calib Start Date: 06/29/2012 13:39

GC Column: RTX-VRX ID: 0.45(mm) Calib End Date: 06/29/2012 17:30

Lab File ID: YF071827.D Heated Purge: (Y/N) N

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | TO | FROM |
| Total Petroleum Hydrocarbons (C6-C10) | 11.79 | 4.79 | 18.79 |
| C6-C12 | 13.46 | 4.89 | 22.02 |
| Trifluorotoluene (Surr) | 9.76 | 9.51 | 10.01 |

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Lab Sample ID: MB 240-51212/6

Matrix: Solid Date Extracted: 07/18/2012 16:09

Lab File ID:(1) YF071806.D Lab File ID:(2)

Date Analyzed:(1) 07/18/2012 16:09 Date Analyzed:(2)

Instrument ID:(1) YPID Instrument ID:(2)

GC Column:(1) RTX-VRX ID: 0.45(mm) GC Column:(2) ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | DATE ANALYZED 1 | DATE ANALYZED 2 |
|---|---|---|---|
| | LCS 240-51212/7 | 07/18/2012 16:49 | |
| MT-SS19-0-2 | 240-13043-2 | 07/19/2012 02:02 | |
| MT-SS19-8-10 | 240-13043-3 | 07/19/2012 02:41 | |
| MT-SS20-0-2 | 240-13043-4 | 07/19/2012 03:20 | |
| MT-SS20-8-10 | 240-13043-5 | 07/19/2012 04:00 | |
| MT-SS21-0-2 | 240-13043-6 | 07/19/2012 04:39 | |
| MT-SS21-8-10 | 240-13043-7 | 07/19/2012 05:18 | |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-51212/6

Matrix: Solid | Lab File ID: YF071806.D

Analysis Method: 8015C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 07/18/2012 16:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VRX ID: 0.45(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 51212 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 8006-61-9 | Total Petroleum Hydrocarbons (C6-C10) | 100 | U | 100 | 46 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 98-08-8 | Trifluorotoluene (Surr) | 88 | | 10-150 |

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: YF071807.D

Lab ID: LCS 240-51212/7 Client ID:

| COMPOUND | SPIKE ADDED (ug/Kg) | LCS CONCENTRATION (ug/Kg) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C6-C10) | 800 | 799 | 100 | 60-142 | |

# Column to be used to flag recovery and RPD values

FORM III 8015C

FORM II
GC VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): RTX-VRX ID: 0.45 (mm)

| Client Sample ID | Lab Sample ID | TFT1 # |
|---|---|---|
| MT-SS19-0-2 | 240-13043-2 | 82 |
| MT-SS19-8-10 | 240-13043-3 | 83 |
| MT-SS20-0-2 | 240-13043-4 | 85 |
| MT-SS20-8-10 | 240-13043-5 | 79 |
| MT-SS21-0-2 | 240-13043-6 | 83 |
| MT-SS21-8-10 | 240-13043-7 | 77 |
| | MB 240-51212/6 | 88 |
| | LCS 240-51212/7 | 99 |

| | QC LIMITS |
|---|---|
| TFT = Trifluorotoluene (Surr) | 10-150 |

# Column to be used to flag recovery values

FORM II 8015C

# Method 8015C - DRO

## Nonhalogenated Organics using GC/FID - Modified (Diesel Range Organics) by Method 8015C

DIESEL RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Instrument ID: A2HP6R Start Date: 05/17/2012 11:52

Analysis Batch Number: 44412 End Date: 05/17/2012 17:34

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| STD1 240-44412/4 IC | | 05/17/2012 11:52 | 1 | P6B51704.D | RTX-5 0.53(mm) |
| STD2 240-44412/5 IC | | 05/17/2012 12:23 | 1 | P6B51705.D | RTX-5 0.53(mm) |
| STD3 240-44412/6 IC | | 05/17/2012 12:54 | 1 | P6B51706.D | RTX-5 0.53(mm) |
| STD4 240-44412/7 IC | | 05/17/2012 13:25 | 1 | P6B51707.D | RTX-5 0.53(mm) |
| STD5 240-44412/8 IC | | 05/17/2012 13:56 | 1 | P6B51708.D | RTX-5 0.53(mm) |
| ICV 240-44412/9 | | 05/17/2012 14:27 | 1 | P6B51709.D | RTX-5 0.53(mm) |
| STD1 240-44412/10 IC | | 05/17/2012 14:58 | 1 | | RTX-5 0.53(mm) |
| STD2 240-44412/11 IC | | 05/17/2012 15:29 | 1 | | RTX-5 0.53(mm) |
| STD3 240-44412/12 IC | | 05/17/2012 16:00 | 1 | | RTX-5 0.53(mm) |
| STD4 240-44412/13 IC | | 05/17/2012 16:31 | 1 | | RTX-5 0.53(mm) |
| STD5 240-44412/14 IC | | 05/17/2012 17:03 | 1 | | RTX-5 0.53(mm) |
| ICV 240-44412/15 | | 05/17/2012 17:34 | 1 | | RTX-5 0.53(mm) |

FORM VI
DIESEL RANGE ORGANICS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-13043-1  Analy Batch No.: 44412

SDG No.:

Instrument ID: A2HP6R  GC Column: RTX-5  ID: 0.53(mm)  Heated Purge: (Y/N) N

Calibration Start Date: 05/17/2012 11:52  Calibration End Date: 05/17/2012 13:56  Calibration ID: 8872

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-44412/4 | P6B51704.D |
| Level 2 | STD2 240-44412/5 | P6B51705.D |
| Level 3 | STD3 240-44412/6 | P6B51706.D |
| Level 4 | STD4 240-44412/7 | P6B51707.D |
| Level 5 | STD5 240-44412/8 | P6B51708.D |

| ANALYTE | CF | | | | CURVE TYPE | COEFFICIENT | | | # | MIN CF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 5 | LVL 2 | LVL 3 | LVL 4 | | B | M1 | M2 | | | | | | | | |
| Diesel | 167629<br>137649 | 145347 | 173940 | 166611 | Ave | | 158235.281 | | | | 10.0 | | 20.0 | | | |
| n-Nonane | 206003<br>165423 | 175155 | 206041 | 200981 | Ave | | 190720.706 | | | | 10.0 | | 20.0 | | | |

Note: The ml coefficient is the same as Ave CF for an Ave curve type.

FORM VI
DIESEL RANGE ORGANICS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 44412

SDG No.:

Instrument ID: A2HP6R GC Column: RTX-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/17/2012 11:52 Calibration End Date: 05/17/2012 13:56 Calibration ID: 8872

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-44412/4 | P6B51704.D |
| Level 2 | STD2 240-44412/5 | P6B51705.D |
| Level 3 | STD3 240-44412/6 | P6B51706.D |
| Level 4 | STD4 240-44412/7 | P6B51707.D |
| Level 5 | STD5 240-44412/8 | P6B51708.D |

| ANALYTE | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (NG/UL) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Diesel | Ave | 16762944 | 29069429 | 86969998 | 166610906 | 275297836 | 100 | 200 | 500 | 1000 | 2000 |
| n-Nonane | Ave | 2060033 | 3503095 | 10302053 | 20098113 | 33084658 | 10.0 | 20.0 | 50.0 | 100 | 200 |

Curve Type Legend:
Ave = Average

FORM VI
DIESEL RANGE ORGANICS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 44412

SDG No.:

Instrument ID: A2HP6R GC Column: RTX-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/17/2012 11:52 Calibration End Date: 05/17/2012 13:56 Calibration ID: 8872

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-44412/4 | P6B51704.D |
| Level 2 | STD2 240-44412/5 | P6B51705.D |
| Level 3 | STD3 240-44412/6 | P6B51706.D |
| Level 4 | STD4 240-44412/7 | P6B51707.D |
| Level 5 | STD5 240-44412/8 | P6B51708.D |

| ANALYTE | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | | | | | RT WINDOW | AVG RT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel | 9.356 | 9.356 | 9.356 | 9.356 | 9.356 | | | | | | 5.171 - 13.529 | 9.356 |
| n-Nonane | 4.175 | 4.173 | 4.176 | 4.179 | 4.177 | | | | | | 4.125 - 4.225 | 4.176 |

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Lab Sample ID: ICV 240-44412/9 Calibration Date: 05/17/2012 14:27

Instrument ID: A2HP6R Calib Start Date: 05/17/2012 11:52

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 05/17/2012 13:56

Lab File ID: P6B51709.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Diesel | Ave | 158235 | 171334 | | 541 | 500 | 8.3 | 20.0 |

FORM VII

DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Lab Sample ID: ICV 240-44412/9 Calibration Date: 05/17/2012 14:27

Instrument ID: A2HP6R Calib Start Date: 05/17/2012 11:52

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 05/17/2012 13:56

Lab File ID: P6B51709.D

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | TO | FROM |
| Diesel | 9.36 | 5.17 | 13.53 |

DIESEL RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Instrument ID: A2HP6R Start Date: 07/20/2012 11:59

Analysis Batch Number: 51479 End Date: 07/20/2012 15:39

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| CCV 240-51479/4 CCVRT | | 07/20/2012 11:59 | 1 | P6B72004.D | RTX-5 0.53(mm) |
| 240-13043-2 | MT-SS19-0-2 | 07/20/2012 12:31 | 1 | P6B72005.D | RTX-5 0.53(mm) |
| 240-13043-3 | MT-SS19-8-10 | 07/20/2012 13:02 | 1 | P6B72006.D | RTX-5 0.53(mm) |
| 240-13043-4 | MT-SS20-0-2 | 07/20/2012 13:34 | 1 | P6B72007.D | RTX-5 0.53(mm) |
| 240-13043-5 | MT-SS20-8-10 | 07/20/2012 14:05 | 1 | P6B72008.D | RTX-5 0.53(mm) |
| 240-13043-6 | MT-SS21-0-2 | 07/20/2012 14:36 | 1 | P6B72009.D | RTX-5 0.53(mm) |
| 240-13043-7 | MT-SS21-8-10 | 07/20/2012 15:08 | 1 | P6B72010.D | RTX-5 0.53(mm) |
| CCV 240-51479/11 | | 07/20/2012 15:39 | 1 | P6B72011.D | RTX-5 0.53(mm) |

FORM VIII
DIESEL RANGE ORGANICS ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Sample No.: CCV 240-51479/4 Date Analyzed: 07/20/2012 11:59

Instrument ID: A2HP6R GC Column: RTX-5 ID: 0.53(mm)

Lab File ID (Standard): P6B72004.D Heated Purge: (Y/N) N

Calibration ID: 8872

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

| | | | | C9 RT # | | |
|---|---|---|---|---|---|---|
| CONTINUING CALIBRATION SURROGATE | | | | 4.16 | | |
| UPPER LIMIT | | | | 4.26 | | |
| LOWER LIMIT | | | | 4.06 | | |
| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | LAB FILE ID | | | |
| CCV 240-51479/4 CCVRT | | 07/20/2012 11:59 | P6B72004.D | 4.16 | | |
| 240-13043-2 | MT-SS19-0-2 | 07/20/2012 12:31 | P6B72005.D | 4.15 | | |
| 240-13043-3 | MT-SS19-8-10 | 07/20/2012 13:02 | P6B72006.D | 4.15 | | |
| 240-13043-4 | MT-SS20-0-2 | 07/20/2012 13:34 | P6B72007.D | 4.15 | | |
| 240-13043-5 | MT-SS20-8-10 | 07/20/2012 14:05 | P6B72008.D | 4.15 | | |
| 240-13043-6 | MT-SS21-0-2 | 07/20/2012 14:36 | P6B72009.D | 4.15 | | |
| 240-13043-7 | MT-SS21-8-10 | 07/20/2012 15:08 | P6B72010.D | 4.15 | | |
| CCV 240-51479/11 | | 07/20/2012 15:39 | P6B72011.D | 4.15 | | |

C9 = n-Nonane

C9 RT Limit = ± 0.1 minutes of surrogate RT

# Column used to flag values outside QC limits

FORM VIII 8015C

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Lab Sample ID: CCV 240-51479/4  Calibration Date: 07/20/2012 11:59

Instrument ID: A2HP6R  Calib Start Date: 05/17/2012 11:52

GC Column: RTX-5  ID: 0.53(mm)  Calib End Date: 05/17/2012 13:56

Lab File ID: P6B72004.D  Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Diesel | Ave | 158235 | 140870 | | 445 | 500 | -11.0 | 20.0 |
| n-Nonane | Ave | 190721 | 163365 | | 42.8 | 50.0 | -14.3 | 20.0 |

FORM VII

DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Lab Sample ID: CCV 240-51479/4 Calibration Date: 07/20/2012 11:59

Instrument ID: A2HP6R Calib Start Date: 05/17/2012 11:52

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 05/17/2012 13:56

Lab File ID: P6B72004.D

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | TO | FROM |
| Diesel | 9.35 | 5.16 | 13.53 |
| n-Nonane | 4.16 | 4.11 | 4.21 |

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Lab Sample ID: CCV 240-51479/11 Calibration Date: 07/20/2012 15:39

Instrument ID: A2HP6R Calib Start Date: 05/17/2012 11:52

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 05/17/2012 13:56

Lab File ID: P6B72011.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Diesel | Ave | 158235 | 147585 | | 466 | 500 | -6.7 | 20.0 |
| n-Nonane | Ave | 190721 | 177344 | | 46.5 | 50.0 | -7.0 | 20.0 |

FORM VII

DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Lab Sample ID: CCV 240-51479/11 Calibration Date: 07/20/2012 15:39

Instrument ID: A2HP6R Calib Start Date: 05/17/2012 11:52

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 05/17/2012 13:56

Lab File ID: P6B72011.D

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | TO | FROM |
| Diesel | 9.35 | 5.16 | 13.53 |
| n-Nonane | 4.15 | 4.11 | 4.21 |

DIESEL RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Instrument ID: A2HP6F Start Date: 06/25/2012 14:51

Analysis Batch Number: 48689 End Date: 06/25/2012 21:30

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| STD1 240-48689/5 IC | | 06/25/2012 14:51 | 1 | P6F62505.D | RTX-5 0.53(mm) |
| STD2 240-48689/6 IC | | 06/25/2012 15:31 | 1 | P6F62506.D | RTX-5 0.53(mm) |
| STD3 240-48689/7 ICRT | | 06/25/2012 16:11 | 1 | P6F62507.D | RTX-5 0.53(mm) |
| STD4 240-48689/8 IC | | 06/25/2012 16:51 | 1 | P6F62508.D | RTX-5 0.53(mm) |
| STD5 240-48689/9 IC | | 06/25/2012 17:31 | 1 | P6F62509.D | RTX-5 0.53(mm) |
| ICV 240-48689/10 | | 06/25/2012 18:10 | 1 | P6F62510.D | RTX-5 0.53(mm) |
| STD1 240-48689/11 IC | | 06/25/2012 18:50 | 1 | | RTX-5 0.53(mm) |
| STD2 240-48689/12 IC | | 06/25/2012 19:30 | 1 | | RTX-5 0.53(mm) |
| STD3 240-48689/13 IC | | 06/25/2012 20:10 | 1 | | RTX-5 0.53(mm) |
| STD4 240-48689/14 IC | | 06/25/2012 20:50 | 1 | | RTX-5 0.53(mm) |
| STD5 240-48689/15 IC | | 06/25/2012 21:30 | 1 | | RTX-5 0.53(mm) |

FORM VI
DIESEL RANGE ORGANICS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 48689

SDG No.:

Instrument ID: A2HP6F GC Column: RTX-5 ID: 0.53 ~~(mm)~~ Heated Purge: (Y/N) N

Calibration Start Date: 06/25/2012 14:51 Calibration End Date: 06/25/2012 17:31 Calibration ID: 9538

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-48689/5 | P6F62505.D |
| Level 2 | STD2 240-48689/6 | P6F62506.D |
| Level 3 | STD3 240-48689/7 | P6F62507.D |
| Level 4 | STD4 240-48689/8 | P6F62508.D |
| Level 5 | STD5 240-48689/9 | P6F62509.D |

| ANALYTE | CF | | | | CURVE TYPE | COEFFICIENT | | | # | MIN CF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 5 | LVL 2 | LVL 3 | LVL 4 | | B | M1 | M2 | | | | | | | | |
| Diesel | 196456<br>165927 | 185262 | 185306 | 173096 | Ave | | 181209.356 | | | | 6.6 | | 20.0 | | | |
| n-Nonane | 210482<br>188182 | 207607 | 220438 | 205830 | Ave | | 206507.780 | | | | 5.7 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
DIESEL RANGE ORGANICS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 48689

SDG No.:

Instrument ID: A2HP6F GC Column: RTX-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start ~~Date~~: 06/25/2012 14:51 Calibration End Date: 06/25/2012 17:31 Calibration ID: 9538

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-48689/5 | P6F62505.D |
| Level 2 | STD2 240-48689/6 | P6F62506.D |
| Level 3 | STD3 240-48689/7 | P6F62507.D |
| Level 4 | STD4 240-48689/8 | P6F62508.D |
| Level 5 | STD5 240-48689/9 | P6F62509.D |

| ANALYTE | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (NG/UL) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Diesel | Ave | 19645571 | 37052412 | 92652936 | 173095961 | 331854356 | 100 | 200 | 500 | 1000 | 2000 |
| n-Nonane | Ave | 2104818 | 4152135 | 11021904 | 20583000 | 37636454 | 10.0 | 20.0 | 50.0 | 100 | 200 |

Curve Type Legend:
Ave = Average

FORM VI
DIESEL RANGE ORGANICS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 48689

SDG No.:

Instrument ID: A2HP6F GC Column: RTX-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/25/2012 14:51 Calibration End Date: 06/25/2012 17:31 Calibration ID: 9538

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-48689/5 | P6F62505.D |
| Level 2 | STD2 240-48689/6 | P6F62506.D |
| Level 3 | STD3 240-48689/7 | P6F62507.D |
| Level 4 | STD4 240-48689/8 | P6F62508.D |
| Level 5 | STD5 240-48689/9 | P6F62509.D |

| ANALYTE | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | | | | | RT WINDOW | AVG RT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel | 9.649 | 9.649 | 9.649 | 9.649 | 9.649 | | | | | | 5.497 - 13.807 | 9.649 |
| n-Nonane | 4.568 | 4.570 | 4.570 | 4.573 | 4.575 | | | | | | 4.520 - 4.620 | 4.571 |

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Lab Sample ID: ICV 240-48689/10 Calibration Date: 06/25/2012 18:10

Instrument ID: A2HP6F Calib Start Date: 06/25/2012 14:51

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 06/25/2012 17:31

Lab File ID: P6F62510.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Diesel | Ave | 181209 | 174412 | | 481 | 500 | -3.8 | 20.0 |

FORM VII

DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Lab Sample ID: ICV 240-48689/10 Calibration Date: 06/25/2012 18:10

Instrument ID: A2HP6F Calib Start Date: 06/25/2012 14:51

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 06/25/2012 17:31

Lab File ID: P6F62510.D

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | TO | FROM |
| Diesel | 9.65 | 5.50 | 13.81 |

DIESEL RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Instrument ID: A2HP6F Start Date: 07/19/2012 14:55

Analysis Batch Number: 51314 End Date: 07/19/2012 20:07

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| CCVRT 240-51314/9 | | 07/19/2012 14:55 | 1 | P6F71909.D | RTX-5 0.53(mm) |
| MB 240-51014/22-A | | 07/19/2012 15:26 | 1 | P6F71910.D | RTX-5 0.53(mm) |
| LCS 240-51014/23-A | | 07/19/2012 15:58 | 1 | P6F71911.D | RTX-5 0.53(mm) |
| ZZZZZ | | 07/19/2012 17:00 | 1 | | RTX-5 0.53(mm) |
| ZZZZZ | | 07/19/2012 17:32 | 1 | | RTX-5 0.53(mm) |
| ZZZZZ | | 07/19/2012 18:03 | 1 | | RTX-5 0.53(mm) |
| ZZZZZ | | 07/19/2012 18:34 | 1 | | RTX-5 0.53(mm) |
| ZZZZZ | | 07/19/2012 19:05 | 1 | | RTX-5 0.53(mm) |
| ZZZZZ | | 07/19/2012 19:36 | 1 | | RTX-5 0.53(mm) |
| CCV 240-51314/19 | | 07/19/2012 20:07 | 1 | P6F71919.D | RTX-5 0.53(mm) |

FORM VIII
DIESEL RANGE ORGANICS ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Sample No.: CCVRT 240-51314/9  Date Analyzed: 07/19/2012 14:55

Instrument ID: A2HP6F  GC Column: RTX-5  ID: 0.53(mm)

Lab File ID (Standard): P6F71909.D  Heated Purge: (Y/N) N

Calibration ID: 9538

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

| | | | | C9 RT # | | |
|---|---|---|---|---|---|---|
| CONTINUING CALIBRATION SURROGATE | | | | 4.18 | | |
| UPPER LIMIT | | | | 4.28 | | |
| LOWER LIMIT | | | | 4.08 | | |
| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | LAB FILE ID | | | |
| CCVRT 240-51314/9 | | 07/19/2012 14:55 | P6F71909.D | 4.18 | | |
| MB 240-51014/22-A | | 07/19/2012 15:26 | P6F71910.D | 4.17 | | |
| LCS 240-51014/23-A | | 07/19/2012 15:58 | P6F71911.D | 4.17 | | |
| CCV 240-51314/19 | | 07/19/2012 20:07 | P6F71919.D | 4.18 | | |

C9 = n-Nonane

C9 RT Limit = ± 0.1 minutes of surrogate RT

# Column used to flag values outside QC limits

FORM VIII 8015C

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Lab Sample ID: CCVRT 240-51314/9  Calibration Date: 07/19/2012 14:55

Instrument ID: A2HP6F  Calib Start Date: 06/25/2012 14:51

GC Column: RTX-5  ID: 0.53(mm)  Calib End Date: 06/25/2012 17:31

Lab File ID: P6F71909.D  Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Diesel | Ave | 181209 | 171672 | | 474 | 500 | -5.3 | 20.0 |
| n-Nonane | Ave | 206508 | 184294 | | 44.6 | 50.0 | -10.8 | 20.0 |

FORM VII

DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Lab Sample ID: CCVRT 240-51314/9 Calibration Date: 07/19/2012 14:55

Instrument ID: A2HP6F Calib Start Date: 06/25/2012 14:51

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 06/25/2012 17:31

Lab File ID: P6F71909.D

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | TO | FROM |
| Diesel | 9.40 | 5.18 | 13.62 |
| n-Nonane | 4.18 | 4.13 | 4.23 |

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Lab Sample ID: CCV 240-51314/19 | Calibration Date: 07/19/2012 20:07

Instrument ID: A2HP6F | Calib Start Date: 06/25/2012 14:51

GC Column: RTX-5 ID: 0.53(mm) | Calib End Date: 06/25/2012 17:31

Lab File ID: P6F71919.D | Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Diesel | Ave | 181209 | 176784 | | 488 | 500 | -2.4 | 20.0 |
| n-Nonane | Ave | 206508 | 190870 | | 46.2 | 50.0 | -7.6 | 20.0 |

FORM VII

DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Lab Sample ID: CCV 240-51314/19 Calibration Date: 07/19/2012 20:07

Instrument ID: A2HP6F Calib Start Date: 06/25/2012 14:51

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 06/25/2012 17:31

Lab File ID: P6F71919.D

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | TO | FROM |
| Diesel | 9.40 | 5.18 | 13.62 |
| n-Nonane | 4.18 | 4.13 | 4.23 |

FORM IV
DIESEL RANGE ORGANICS METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Lab Sample ID: MB 240-51014/22-A

Matrix: Solid Date Extracted: 07/17/2012 09:14

Lab File ID:(1) P6F71910.D Lab File ID:(2)

Date Analyzed:(1) 07/19/2012 15:26 Date Analyzed:(2)

Instrument ID:(1) A2HP6F Instrument ID:(2)

GC Column:(1) RTX-5 ID: 0.53(mm) GC Column:(2) ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | DATE ANALYZED 1 | DATE ANALYZED 2 |
|---|---|---|---|
| | LCS 240-51014/23-A | 07/19/2012 15:58 | |
| MT-SS19-0-2 | 240-13043-2 | 07/20/2012 12:31 | |
| MT-SS19-8-10 | 240-13043-3 | 07/20/2012 13:02 | |
| MT-SS20-0-2 | 240-13043-4 | 07/20/2012 13:34 | |
| MT-SS20-8-10 | 240-13043-5 | 07/20/2012 14:05 | |
| MT-SS21-0-2 | 240-13043-6 | 07/20/2012 14:36 | |
| MT-SS21-8-10 | 240-13043-7 | 07/20/2012 15:08 | |

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-51014/22-A

Matrix: Solid | Lab File ID: P6F71910.D

Analysis Method: 8015C | Date Collected:

Extraction Method: 3540C | Date Extracted: 07/17/2012 09:14

Sample wt/vol: 30(g) | Date Analyzed: 07/19/2012 15:26

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-5 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51314 | Units: mg/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| STL00141 | Total Petroleum Hydrocarbons (C10-C32) | 16.5 | J | 17 | 9.3 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 111-84-2 | n-Nonane | 36 | | 10-110 |

FORM III
DIESEL RANGE ORGANICS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: P6F71911.D

Lab ID: LCS 240-51014/23-A Client ID:

| COMPOUND | SPIKE ADDED (mg/Kg) | LCS CONCENTRATION (mg/Kg) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| Diesel | 83.3 | 74.2 | 89 | 47-138 | |

# Column to be used to flag recovery and RPD values

FORM III 8015C

FORM II
DIESEL RANGE ORGANICS SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): RTX-5 ID: 0.53 (mm)

| Client Sample ID | Lab Sample ID | C91 # |
|---|---|---|
| MT-SS19-0-2 | 240-13043-2 | 34 |
| MT-SS19-8-10 | 240-13043-3 | 39 |
| MT-SS20-0-2 | 240-13043-4 | 38 |
| MT-SS20-8-10 | 240-13043-5 | 40 |
| MT-SS21-0-2 | 240-13043-6 | 36 |
| MT-SS21-8-10 | 240-13043-7 | 37 |
| | MB 240-51014/22-A | 36 |
| | LCS 240-51014/23-A | 40 |

| | QC LIMITS |
|---|---|
| C9 = n-Nonane | 10-110 |

# Column to be used to flag recovery values

FORM II 8015C

# Method 8082A

## Polychlorinated Biphenyls (PCBs) (GC) by Method 8082A

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Instrument ID: A2HP13  Start Date: 03/23/2012 13:23

Analysis Batch Number: 37817  End Date: 03/24/2012 01:34

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| STD005 240-37817/3 IC | | 03/23/2012 13:23 | 1 | | CLP-1 0.53(mm) |
| STD005 240-37817/3 IC | | 03/23/2012 13:23 | 1 | P1300003.D | CLP-2 0.53(mm) |
| STD01 240-37817/4 IC | 1232 | 03/23/2012 13:38 | 1 | | CLP-1 0.53(mm) |
| STD01 240-37817/4 IC | | 03/23/2012 13:38 | 1 | P1300004.D | CLP-2 0.53(mm) |
| STD02 240-37817/5 IC | | 03/23/2012 13:53 | 1 | | CLP-1 0.53(mm) |
| STD02 240-37817/5 IC | | 03/23/2012 13:53 | 1 | P1300005.D | CLP-2 0.53(mm) |
| STD05 240-37817/6 IC | | 03/23/2012 14:08 | 1 | | CLP-1 0.53(mm) |
| STD05 240-37817/6 IC | | 03/23/2012 14:08 | 1 | P1300006.D | CLP-2 0.53(mm) |
| STD1 240-37817/7 IC | | 03/23/2012 14:23 | 1 | | CLP-1 0.53(mm) |
| STD1 240-37817/7 IC | | 03/23/2012 14:23 | 1 | P1300007.D | CLP-2 0.53(mm) |
| STD2 240-37817/8 IC | | 03/23/2012 14:38 | 1 | | CLP-1 0.53(mm) |
| STD2 240-37817/8 IC | | 03/23/2012 14:38 | 1 | P1300008.D | CLP-2 0.53(mm) |
| STD005 240-37817/9 IC | | 03/23/2012 14:53 | 1 | | CLP-1 0.53(mm) |
| STD005 240-37817/9 IC | | 03/23/2012 14:53 | 1 | P1300009.D | CLP-2 0.53(mm) |
| STD01 240-37817/10 IC | | 03/23/2012 15:08 | 1 | | CLP-1 0.53(mm) |
| STD01 240-37817/10 IC | | 03/23/2012 15:08 | 1 | P1300010.D | CLP-2 0.53(mm) |
| STD02 240-37817/11 IC | 1242 | 03/23/2012 15:23 | 1 | | CLP-1 0.53(mm) |
| STD02 240-37817/11 IC | | 03/23/2012 15:23 | 1 | P1300011.D | CLP-2 0.53(mm) |
| STD05 240-37817/12 IC | | 03/23/2012 15:37 | 1 | | CLP-1 0.53(mm) |
| STD05 240-37817/12 IC | | 03/23/2012 15:37 | 1 | P1300012.D | CLP-2 0.53(mm) |
| STD1 240-37817/13 IC | | 03/23/2012 15:52 | 1 | | CLP-1 0.53(mm) |
| STD1 240-37817/13 IC | | 03/23/2012 15:52 | 1 | P1300013.D | CLP-2 0.53(mm) |
| STD2 240-37817/14 IC | | 03/23/2012 16:07 | 1 | | CLP-1 0.53(mm) |
| STD2 240-37817/14 IC | | 03/23/2012 16:07 | 1 | P1300014.D | CLP-2 0.53(mm) |
| STD005 240-37817/15 IC | | 03/23/2012 16:22 | 1 | | CLP-1 0.53(mm) |
| STD005 240-37817/15 IC | | 03/23/2012 16:22 | 1 | P1300015.D | CLP-2 0.53(mm) |
| STD01 240-37817/16 IC | 1248 | 03/23/2012 16:37 | 1 | | CLP-1 0.53(mm) |
| STD01 240-37817/16 IC | | 03/23/2012 16:37 | 1 | P1300016.D | CLP-2 0.53(mm) |
| STD02 240-37817/17 IC | | 03/23/2012 16:52 | 1 | | CLP-1 0.53(mm) |
| STD02 240-37817/17 IC | | 03/23/2012 16:52 | 1 | P1300017.D | CLP-2 0.53(mm) |
| STD05 240-37817/18 IC | | 03/23/2012 17:07 | 1 | | CLP-1 0.53(mm) |
| STD05 240-37817/18 IC | | 03/23/2012 17:07 | 1 | P1300018.D | CLP-2 0.53(mm) |
| STD1 240-37817/19 IC | | 03/23/2012 17:22 | 1 | | CLP-1 0.53(mm) |
| STD1 240-37817/19 IC | | 03/23/2012 17:22 | 1 | P1300019.D | CLP-2 0.53(mm) |
| STD2 240-37817/20 IC | | 03/23/2012 17:37 | 1 | | CLP-1 0.53(mm) |
| STD2 240-37817/20 IC | | 03/23/2012 17:37 | 1 | P1300020.D | CLP-2 0.53(mm) |
| STD005 240-37817/21 IC | 1221 /1254 | 03/23/2012 17:52 | 1 | | CLP-1 0.53(mm) |

8082A

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Instrument ID: A2HP13 Start Date: 03/23/2012 13:23

Analysis Batch Number: 37817 End Date: 03/24/2012 01:34

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| STD005 240-37817/21 IC | | 03/23/2012 17:52 | 1 | P1300021.D | CLP-2 0.53(mm) |
| STD01 240-37817/22 IC | | 03/23/2012 18:06 | 1 | | CLP-1 0.53(mm) |
| STD01 240-37817/22 IC | 1221/1254 | 03/23/2012 18:06 | 1 | P1300022.D | CLP-2 0.53(mm) |
| STD02 240-37817/23 IC | | 03/23/2012 18:21 | 1 | | CLP-1 0.53(mm) |
| STD02 240-37817/23 IC | | 03/23/2012 18:21 | 1 | P1300023.D | CLP-2 0.53(mm) |
| STD05 240-37817/24 IC | | 03/23/2012 18:36 | 1 | | CLP-1 0.53(mm) |
| STD05 240-37817/24 IC | | 03/23/2012 18:36 | 1 | P1300024.D | CLP-2 0.53(mm) |
| STD1 240-37817/25 IC | | 03/23/2012 18:51 | 1 | | CLP-1 0.53(mm) |
| STD1 240-37817/25 IC | | 03/23/2012 18:51 | 1 | P1300025.D | CLP-2 0.53(mm) |
| STD2 240-37817/26 IC | | 03/23/2012 19:06 | 1 | | CLP-1 0.53(mm) |
| STD2 240-37817/26 IC | | 03/23/2012 19:06 | 1 | P1300026.D | CLP-2 0.53(mm) |
| STD005 240-37817/27 IC | | 03/23/2012 19:21 | 1 | | CLP-1 0.53(mm) |
| STD005 240-37817/27 IC | | 03/23/2012 19:21 | 1 | P1300027.D | CLP-2 0.53(mm) |
| STD01 240-37817/28 IC | | 03/23/2012 19:36 | 1 | | CLP-1 0.53(mm) |
| STD01 240-37817/28 IC | 1016/1260 | 03/23/2012 19:36 | 1 | P1300028.D | CLP-2 0.53(mm) |
| STD02 240-37817/29 IC | | 03/23/2012 19:51 | 1 | | CLP-1 0.53(mm) |
| STD02 240-37817/29 IC | | 03/23/2012 19:51 | 1 | P1300029.D | CLP-2 0.53(mm) |
| STD05 240-37817/30 ICRT | | 03/23/2012 20:06 | 1 | | CLP-1 0.53(mm) |
| STD05 240-37817/30 ICRT | | 03/23/2012 20:06 | 1 | P1300030.D | CLP-2 0.53(mm) |
| STD1 240-37817/31 IC | | 03/23/2012 20:21 | 1 | | CLP-1 0.53(mm) |
| STD1 240-37817/31 IC | | 03/23/2012 20:21 | 1 | P1300031.D | CLP-2 0.53(mm) |
| STD2 240-37817/32 IC | | 03/23/2012 20:36 | 1 | | CLP-1 0.53(mm) |
| STD2 240-37817/32 IC | | 03/23/2012 20:36 | 1 | P1300032.D | CLP-2 0.53(mm) |
| STD005 240-37817/33 IC | | 03/23/2012 20:51 | 1 | | CLP-1 0.53(mm) |
| STD005 240-37817/33 IC | | 03/23/2012 20:51 | 1 | | CLP-2 0.53(mm) |
| STD01 240-37817/34 IC | | 03/23/2012 21:06 | 1 | | CLP-1 0.53(mm) |
| STD01 240-37817/34 IC | | 03/23/2012 21:06 | 1 | | CLP-2 0.53(mm) |
| STD02 240-37817/35 IC | | 03/23/2012 21:20 | 1 | | CLP-1 0.53(mm) |
| STD02 240-37817/35 IC | | 03/23/2012 21:20 | 1 | | CLP-2 0.53(mm) |
| STD05 240-37817/36 IC | | 03/23/2012 21:35 | 1 | | CLP-1 0.53(mm) |
| STD05 240-37817/36 IC | | 03/23/2012 21:35 | 1 | | CLP-2 0.53(mm) |
| STD1 240-37817/37 IC | | 03/23/2012 21:50 | 1 | | CLP-1 0.53(mm) |
| STD1 240-37817/37 IC | | 03/23/2012 21:50 | 1 | | CLP-2 0.53(mm) |
| STD2 240-37817/38 IC | | 03/23/2012 22:05 | 1 | | CLP-1 0.53(mm) |
| STD2 240-37817/38 IC | | 03/23/2012 22:05 | 1 | | CLP-2 0.53(mm) |

8082A

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Instrument ID: A2HP13 Start Date: 03/23/2012 13:23

Analysis Batch Number: 37817 End Date: 03/24/2012 01:34

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| STD005 240-37817/39 IC | | 03/23/2012 22:20 | 1 | | CLP-1 0.53(mm) |
| STD005 240-37817/39 IC | | 03/23/2012 22:20 | 1 | | CLP-2 0.53(mm) |
| STD01 240-37817/40 IC | | 03/23/2012 22:35 | 1 | | CLP-1 0.53(mm) |
| STD01 240-37817/40 IC | | 03/23/2012 22:35 | 1 | | CLP-2 0.53(mm) |
| STD02 240-37817/41 IC | | 03/23/2012 22:50 | 1 | | CLP-1 0.53(mm) |
| STD02 240-37817/41 IC | | 03/23/2012 22:50 | 1 | | CLP-2 0.53(mm) |
| STD05 240-37817/42 IC | | 03/23/2012 23:05 | 1 | | CLP-1 0.53(mm) |
| STD05 240-37817/42 IC | | 03/23/2012 23:05 | 1 | | CLP-2 0.53(mm) |
| STD1 240-37817/43 IC | | 03/23/2012 23:20 | 1 | | CLP-1 0.53(mm) |
| STD1 240-37817/43 IC | | 03/23/2012 23:20 | 1 | | CLP-2 0.53(mm) |
| STD2 240-37817/44 IC | | 03/23/2012 23:35 | 1 | | CLP-1 0.53(mm) |
| STD2 240-37817/44 IC | | 03/23/2012 23:35 | 1 | | CLP-2 0.53(mm) |
| ICV 240-37817/45 | | 03/23/2012 23:50 | 1 | | CLP-1 0.53(mm) |
| ICV 240-37817/45 | | 03/23/2012 23:50 | 1 | | CLP-2 0.53(mm) |
| ICV 240-37817/46 | | 03/24/2012 00:05 | 1 | | CLP-1 0.53(mm) |
| ICV 240-37817/46 | | 03/24/2012 00:05 | 1 | | CLP-2 0.53(mm) |
| ICV 240-37817/47 | | 03/24/2012 00:20 | 1 | | CLP-1 0.53(mm) |
| ICV 240-37817/47 | | 03/24/2012 00:20 | 1 | | CLP-2 0.53(mm) |
| ICV 240-37817/48 | | 03/24/2012 00:34 | 1 | | CLP-1 0.53(mm) |
| ICV 240-37817/48 | | 03/24/2012 00:34 | 1 | | CLP-2 0.53(mm) |
| ICV 240-37817/49 | | 03/24/2012 00:49 | 1 | | CLP-1 0.53(mm) |
| ICV 240-37817/49 | | 03/24/2012 00:49 | 1 | | CLP-2 0.53(mm) |
| ICV 240-37817/50 | | 03/24/2012 01:04 | 1 | | CLP-1 0.53(mm) |
| ICV 240-37817/50 | | 03/24/2012 01:04 | 1 | P1300050.D | CLP-2 0.53(mm) |
| ICV 240-37817/51 | | 03/24/2012 01:19 | 1 | | CLP-1 0.53(mm) |
| ICV 240-37817/51 | | 03/24/2012 01:19 | 1 | | CLP-2 0.53(mm) |
| ICV 240-37817/52 | | 03/24/2012 01:34 | 1 | | CLP-1 0.53(mm) |
| ICV 240-37817/52 | | 03/24/2012 01:34 | 1 | | CLP-2 0.53(mm) |

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 37817

SDG No.:

Instrument ID: A2HP13 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/23/2012 13:23 Calibration End Date: 03/23/2012 14:38 Calibration ID: 7685

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD005 240-37817/3 | P1300003.D |
| Level 2 | STD01 240-37817/4 | P1300004.D |
| Level 3 | STD02 240-37817/5 | P1300005.D |
| Level 4 | STD05 240-37817/6 | P1300006.D |
| Level 5 | STD1 240-37817/7 | P1300007.D |
| Level 6 | STD2 240-37817/8 | P1300008.D |

| ANALYTE | CF | | | | CURVE TYPE | COEFFICIENT | | | # | MIN CF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 5 | LVL 2<br>LVL 6 | LVL 3 | LVL 4 | | B | M1 | M2 | | | | | | | | |
| PCB-1232 Peak 1 | 41987960<br>31169802 | 37741340<br>29105190 | 37187540 | 34069908 | Ave | | 35210289.9 | | | | 13.0 | | 20.0 | | | |
| PCB-1232 Peak 2 | 38666420<br>26658227 | 31086080<br>24889159 | 30530060 | 29199204 | Ave | | 30171525.0 | | | | 16.0 | | 20.0 | | | |
| PCB-1232 Peak 3 | 68715440<br>56388963 | 62720570<br>53650739 | 62424620 | 60793170 | Ave | | 60782250.3 | | | | 8.7 | | 20.0 | | | |
| PCB-1232 Peak 4 | 28370660<br>23996866 | 26547950<br>22729105 | 26389530 | 26121834 | Ave | | 25692657.4 | | | | 7.8 | | 20.0 | | | |
| PCB-1232 Peak 5 | 22019100<br>20276411 | 20890500<br>19283202 | 23576795 | 21936048 | Ave | | 21330342.6 | | | | 7.1 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 37817

SDG No.:

Instrument ID: A2HP13 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/23/2012 13:23 Calibration End Date: 03/23/2012 14:38 Calibration ID: 7685

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD005 240-37817/3 | P1300003.D |
| Level 2 | STD01 240-37817/4 | P1300004.D |
| Level 3 | STD02 240-37817/5 | P1300005.D |
| Level 4 | STD05 240-37817/6 | P1300006.D |
| Level 5 | STD1 240-37817/7 | P1300007.D |
| Level 6 | STD2 240-37817/8 | P1300008.D |

| ANALYTE | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (NG/UL) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| PCB-1232 Peak 1 | Ave | 2099398<br>58210379 | 3774134 | 7437508 | 17034954 | 31169802 | 0.0500<br>2.00 | 0.100 | 0.200 | 0.500 | 1.00 |
| PCB-1232 Peak 2 | Ave | 1933321<br>49778318 | 3108608 | 6106012 | 14599602 | 26658227 | 0.0500<br>2.00 | 0.100 | 0.200 | 0.500 | 1.00 |
| PCB-1232 Peak 3 | Ave | 3435772<br>107301477 | 6272057 | 12484924 | 30396585 | 56388963 | 0.0500<br>2.00 | 0.100 | 0.200 | 0.500 | 1.00 |
| PCB-1232 Peak 4 | Ave | 1418533<br>45458209 | 2654795 | 5277906 | 13060917 | 23996866 | 0.0500<br>2.00 | 0.100 | 0.200 | 0.500 | 1.00 |
| PCB-1232 Peak 5 | Ave | 1100955<br>38566403 | 2089050 | 4715359 | 10968024 | 20276411 | 0.0500<br>2.00 | 0.100 | 0.200 | 0.500 | 1.00 |

Curve Type Legend:
Ave = Average

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 37817

SDG No.:

Instrument ID: A2HP13 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/23/2012 13:23 Calibration End Date: 03/23/2012 14:38 Calibration ID: 7685

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD005 240-37817/3 | P1300003.D |
| Level 2 | STD01 240-37817/4 | P1300004.D |
| Level 3 | STD02 240-37817/5 | P1300005.D |
| Level 4 | STD05 240-37817/6 | P1300006.D |
| Level 5 | STD1 240-37817/7 | P1300007.D |
| Level 6 | STD2 240-37817/8 | P1300008.D |

| ANALYTE | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 6 | | | | | RT WINDOW | AVG RT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1232 Peak 1 | 2.155 | 2.158 | 2.158 | 2.155 | 2.159 | 2.158 | | | | | 2.105 - 2.205 | 2.157 |
| PCB-1232 Peak 2 | 2.581 | 2.582 | 2.580 | 2.580 | 2.583 | 2.582 | | | | | 2.531 - 2.631 | 2.581 |
| PCB-1232 Peak 3 | 3.065 | 3.067 | 3.067 | 3.065 | 3.067 | 3.068 | | | | | 3.015 - 3.115 | 3.067 |
| PCB-1232 Peak 4 | 3.212 | 3.212 | 3.212 | 3.212 | 3.213 | 3.213 | | | | | 3.162 - 3.262 | 3.212 |
| PCB-1232 Peak 5 | 3.863 | 3.865 | 3.864 | 3.864 | 3.864 | 3.865 | | | | | 3.813 - 3.913 | 3.864 |

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 37817

SDG No.:

Instrument ID: A2HP13 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/23/2012 14:53 Calibration End Date: 03/23/2012 16:07 Calibration ID: 7691

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD005 240-37817/9 | P1300009.D |
| Level 2 | STD01 240-37817/10 | P1300010.D |
| Level 3 | STD02 240-37817/11 | P1300011.D |
| Level 4 | STD05 240-37817/12 | P1300012.D |
| Level 5 | STD1 240-37817/13 | P1300013.D |
| Level 6 | STD2 240-37817/14 | P1300014.D |

| ANALYTE | CF | | | | CURVE TYPE | COEFFICIENT | | | # | MIN CF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 5 | LVL 2<br>LVL 6 | LVL 3 | LVL 4 | | B | M1 | M2 | | | | | | | | |
| PCB-1242 Peak 1 | 35484600<br>24071800 | 30309600<br>22193411 | 27339380 | 24345746 | Ave | | 27290756.2 | | | | 18.0 | | 20.0 | | | |
| PCB-1242 Peak 2 | 67251520<br>47648713 | 58853540<br>43631407 | 54528860 | 47713854 | Ave | | 53271315.6 | | | | 16.0 | | 20.0 | | | |
| PCB-1242 Peak 3 | 139141180<br>101811520 | 118476030<br>94762760 | 110911880 | 99381970 | Ave | | 110747557 | | | | 15.0 | | 20.0 | | | |
| PCB-1242 Peak 4 | 59399760<br>43685003 | 51211920<br>40831635 | 47573380 | 42399874 | Ave | | 47516928.7 | | | | 15.0 | | 20.0 | | | |
| PCB-1242 Peak 5 | 43827680<br>35578681 | 45006160<br>33257074 | 39954045 | 35334634 | Ave | | 38826379.0 | | | | 13.0 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 37817

SDG No.:

Instrument ID: A2HP13 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/23/2012 14:53 Calibration End Date: 03/23/2012 16:07 Calibration ID: 7691

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD005 240-37817/9 | P1300009.D |
| Level 2 | STD01 240-37817/10 | P1300010.D |
| Level 3 | STD02 240-37817/11 | P1300011.D |
| Level 4 | STD05 240-37817/12 | P1300012.D |
| Level 5 | STD1 240-37817/13 | P1300013.D |
| Level 6 | STD2 240-37817/14 | P1300014.D |

| ANALYTE | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (NG/UL) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| PCB-1242 Peak 1 | Ave | 1774230<br>44386822 | 3030960 | 5467876 | 12172873 | 24071800 | 0.0500<br>2.00 | 0.100 | 0.200 | 0.500 | 1.00 |
| PCB-1242 Peak 2 | Ave | 3362576<br>87262813 | 5885354 | 10905772 | 23856927 | 47648713 | 0.0500<br>2.00 | 0.100 | 0.200 | 0.500 | 1.00 |
| PCB-1242 Peak 3 | Ave | 6957059<br>189525520 | 11847603 | 22182376 | 49690985 | 101811520 | 0.0500<br>2.00 | 0.100 | 0.200 | 0.500 | 1.00 |
| PCB-1242 Peak 4 | Ave | 2969988<br>81663270 | 5121192 | 9514676 | 21199937 | 43685003 | 0.0500<br>2.00 | 0.100 | 0.200 | 0.500 | 1.00 |
| PCB-1242 Peak 5 | Ave | 2191384<br>66514148 | 4500616 | 7990809 | 17667317 | 35578681 | 0.0500<br>2.00 | 0.100 | 0.200 | 0.500 | 1.00 |

Curve Type Legend:
Ave = Average

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 37817

SDG No.:

Instrument ID: A2HP13 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/23/2012 14:53 Calibration End Date: 03/23/2012 16:07 Calibration ID: 7691

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD005 240-37817/9 | P1300009.D |
| Level 2 | STD01 240-37817/10 | P1300010.D |
| Level 3 | STD02 240-37817/11 | P1300011.D |
| Level 4 | STD05 240-37817/12 | P1300012.D |
| Level 5 | STD1 240-37817/13 | P1300013.D |
| Level 6 | STD2 240-37817/14 | P1300014.D |

| ANALYTE | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 6 | | | | | RT WINDOW | AVG RT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1242 Peak 1 | 2.156 | 2.157 | 2.158 | 2.158 | 2.155 | 2.155 | | | | | 2.106 - 2.206 | 2.157 |
| PCB-1242 Peak 2 | 2.581 | 2.582 | 2.582 | 2.583 | 2.580 | 2.581 | | | | | 2.531 - 2.631 | 2.582 |
| PCB-1242 Peak 3 | 3.067 | 3.067 | 3.068 | 3.068 | 3.066 | 3.066 | | | | | 3.017 - 3.117 | 3.067 |
| PCB-1242 Peak 4 | 3.212 | 3.212 | 3.213 | 3.214 | 3.211 | 3.212 | | | | | 3.162 - 3.262 | 3.212 |
| PCB-1242 Peak 5 | 3.728 | 3.731 | 3.731 | 3.731 | 3.730 | 3.730 | | | | | 3.678 - 3.778 | 3.730 |

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 37817

SDG No.:

Instrument ID: A2HP13 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/23/2012 16:22 Calibration End Date: 03/23/2012 17:37 Calibration ID: 7655

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD005 240-37817/15 | P1300015.D |
| Level 2 | STD01 240-37817/16 | P1300016.D |
| Level 3 | STD02 240-37817/17 | P1300017.D |
| Level 4 | STD05 240-37817/18 | P1300018.D |
| Level 5 | STD1 240-37817/19 | P1300019.D |
| Level 6 | STD2 240-37817/20 | P1300020.D |

| ANALYTE | CF | | | | CURVE TYPE | COEFFICIENT | | | # | MIN CF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 5 | LVL 2<br>LVL 6 | LVL 3 | LVL 4 | | B | M1 | M2 | | | | | | | | |
| PCB-1248 Peak 1 | 29280440<br>22294514 | 27796270<br>20437200 | 24757860 | 24082470 | Ave | | 24774792.3 | | | | 13.0 | | 20.0 | | | |
| PCB-1248 Peak 2 | 82159040<br>63906732 | 76209520<br>59559157 | 68282510 | 67656316 | Ave | | 69628879.2 | | | | 12.0 | | 20.0 | | | |
| PCB-1248 Peak 3 | 80423740<br>64106051 | 74243240<br>59858766 | 66936285 | 67780514 | Ave | | 68891432.6 | | | | 11.0 | | 20.0 | | | |
| PCB-1248 Peak 4 | 129310140<br>109534046 | 121314600<br>102697666 | 109662245 | 114484552 | Ave | | 114500541 | | | | 8.3 | | 20.0 | | | |
| PCB-1248 Peak 5 | 48049920<br>41600318 | 46294540<br>39252141 | 43403565 | 43337598 | Ave | | 43656346.9 | | | | 7.2 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 37817

SDG No.:

Instrument ID: A2HP13 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/23/2012 16:22 Calibration End Date: 03/23/2012 17:37 Calibration ID: 7655

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD005 240-37817/15 | P1300015.D |
| Level 2 | STD01 240-37817/16 | P1300016.D |
| Level 3 | STD02 240-37817/17 | P1300017.D |
| Level 4 | STD05 240-37817/18 | P1300018.D |
| Level 5 | STD1 240-37817/19 | P1300019.D |
| Level 6 | STD2 240-37817/20 | P1300020.D |

| ANALYTE | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (NG/UL) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| PCB-1248 Peak 1 | Ave | 1464022<br>40874399 | 2779627 | 4951572 | 12041235 | 22294514 | 0.0500<br>2.00 | 0.100 | 0.200 | 0.500 | 1.00 |
| PCB-1248 Peak 2 | Ave | 4107952<br>119118314 | 7620952 | 13656502 | 33828158 | 63906732 | 0.0500<br>2.00 | 0.100 | 0.200 | 0.500 | 1.00 |
| PCB-1248 Peak 3 | Ave | 4021187<br>119717531 | 7424324 | 13387257 | 33890257 | 64106051 | 0.0500<br>2.00 | 0.100 | 0.200 | 0.500 | 1.00 |
| PCB-1248 Peak 4 | Ave | 6465507<br>205395331 | 12131460 | 21932449 | 57242276 | 109534046 | 0.0500<br>2.00 | 0.100 | 0.200 | 0.500 | 1.00 |
| PCB-1248 Peak 5 | Ave | 2402496<br>78504281 | 4629454 | 8680713 | 21668799 | 41600318 | 0.0500<br>2.00 | 0.100 | 0.200 | 0.500 | 1.00 |

Curve Type Legend:
Ave = Average

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 37817

SDG No.:

Instrument ID: A2HP13 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/23/2012 16:22 Calibration End Date: 03/23/2012 17:37 Calibration ID: 7655

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD005 240-37817/15 | P1300015.D |
| Level 2 | STD01 240-37817/16 | P1300016.D |
| Level 3 | STD02 240-37817/17 | P1300017.D |
| Level 4 | STD05 240-37817/18 | P1300018.D |
| Level 5 | STD1 240-37817/19 | P1300019.D |
| Level 6 | STD2 240-37817/20 | P1300020.D |

| ANALYTE | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 6 | | | | | RT WINDOW | AVG RT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1248 Peak 1 | 2.580 | 2.580 | 2.582 | 2.579 | 2.581 | 2.582 | | | | | 2.530 - 2.630 | 2.581 |
| PCB-1248 Peak 2 | 3.065 | 3.064 | 3.067 | 3.064 | 3.066 | 3.066 | | | | | 3.015 - 3.115 | 3.065 |
| PCB-1248 Peak 3 | 3.864 | 3.864 | 3.864 | 3.864 | 3.864 | 3.865 | | | | | 3.814 - 3.914 | 3.864 |
| PCB-1248 Peak 4 | 4.446 | 4.446 | 4.448 | 4.448 | 4.447 | 4.447 | | | | | 4.396 - 4.496 | 4.447 |
| PCB-1248 Peak 5 | 4.926 | 4.928 | 4.928 | 4.927 | 4.927 | 4.927 | | | | | 4.876 - 4.976 | 4.927 |

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 37817

SDG No.:

Instrument ID: A2HP13 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/23/2012 17:52 Calibration End Date: 03/23/2012 19:06 Calibration ID: 7661

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD005 240-37817/21 | P1300021.D |
| Level 2 | STD01 240-37817/22 | P1300022.D |
| Level 3 | STD02 240-37817/23 | P1300023.D |
| Level 4 | STD05 240-37817/24 | P1300024.D |
| Level 5 | STD1 240-37817/25 | P1300025.D |
| Level 6 | STD2 240-37817/26 | P1300026.D |

| ANALYTE | CF | | | | CURVE TYPE | COEFFICIENT | | | # | MIN CF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 5 | LVL 2<br>LVL 6 | LVL 3 | LVL 4 | | B | M1 | M2 | | | | | | | | |
| PCB-1221 Peak 1 | 21686520<br>16466693 | 20560760<br>15902212 | 19528910 | 18009094 | Ave | | 18692364.8 | | | | 12.0 | | 20.0 | | | |
| PCB-1221 Peak 2 | 14907480<br>10582874 | 13563710<br>10207501 | 12774545 | 11811556 | Ave | | 12307944.3 | | | | 15.0 | | 20.0 | | | |
| PCB-1221 Peak 3 | 53486060<br>38682853 | 49344170<br>37261305 | 46393045 | 42605862 | Ave | | 44628882.4 | | | | 14.0 | | 20.0 | | | |
| PCB-1254 Peak 1 | 95729720<br>75576208 | 89891720<br>74153904 | 85535675 | 80866904 | Ave | | 83625688.4 | | | | 10.0 | | 20.0 | | | |
| PCB-1254 Peak 2 | 146703300<br>119395634 | 138745420<br>116766817 | 133231015 | 126673620 | Ave | | 130252634 | | | | 8.8 | | 20.0 | | | |
| PCB-1254 Peak 3 | 118531840<br>98194120 | 111255030<br>94743843 | 106610220 | 102440248 | Ave | | 105295884 | | | | 8.3 | | 20.0 | | | |
| PCB-1254 Peak 4 | 116453920<br>98132555 | 110929430<br>97114766 | 106489665 | 102729590 | Ave | | 105308321 | | | | 7.1 | | 20.0 | | | |
| PCB-1254 Peak 5 | 147404140<br>128459760 | 146751360<br>126524307 | 141166225 | 135522868 | Ave | | 137638110 | | | | 6.5 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 37817

SDG No.:

Instrument ID: A2HP13 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/23/2012 17:52 Calibration End Date: 03/23/2012 19:06 Calibration ID: 7661

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD005 240-37817/21 | P1300021.D |
| Level 2 | STD01 240-37817/22 | P1300022.D |
| Level 3 | STD02 240-37817/23 | P1300023.D |
| Level 4 | STD05 240-37817/24 | P1300024.D |
| Level 5 | STD1 240-37817/25 | P1300025.D |
| Level 6 | STD2 240-37817/26 | P1300026.D |

| ANALYTE | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (NG/UL) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| PCB-1221 Peak 1 | Ave | 1084326<br>31804423 | 2056076 | 3905782 | 9004547 | 16466693 | 0.0500<br>2.00 | 0.100 | 0.200 | 0.500 | 1.00 |
| PCB-1221 Peak 2 | Ave | 745374<br>20415001 | 1356371 | 2554909 | 5905778 | 10582874 | 0.0500<br>2.00 | 0.100 | 0.200 | 0.500 | 1.00 |
| PCB-1221 Peak 3 | Ave | 2674303<br>74522609 | 4934417 | 9278609 | 21302931 | 38682853 | 0.0500<br>2.00 | 0.100 | 0.200 | 0.500 | 1.00 |
| PCB-1254 Peak 1 | Ave | 4786486<br>148307807 | 8989172 | 17107135 | 40433452 | 75576208 | 0.0500<br>2.00 | 0.100 | 0.200 | 0.500 | 1.00 |
| PCB-1254 Peak 2 | Ave | 7335165<br>233533635 | 13874542 | 26646203 | 63336810 | 119395634 | 0.0500<br>2.00 | 0.100 | 0.200 | 0.500 | 1.00 |
| PCB-1254 Peak 3 | Ave | 5926592<br>189487686 | 11125503 | 21322044 | 51220124 | 98194120 | 0.0500<br>2.00 | 0.100 | 0.200 | 0.500 | 1.00 |
| PCB-1254 Peak 4 | Ave | 5822696<br>194229533 | 11092943 | 21297933 | 51364795 | 98132555 | 0.0500<br>2.00 | 0.100 | 0.200 | 0.500 | 1.00 |
| PCB-1254 Peak 5 | Ave | 7370207<br>253048615 | 14675136 | 28233245 | 67761434 | 128459760 | 0.0500<br>2.00 | 0.100 | 0.200 | 0.500 | 1.00 |

Curve Type Legend:
Ave = Average

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 37817

SDG No.:

Instrument ID: A2HP13 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/23/2012 17:52 Calibration End Date: 03/23/2012 19:06 Calibration ID: 7661

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD005 240-37817/21 | P1300021.D |
| Level 2 | STD01 240-37817/22 | P1300022.D |
| Level 3 | STD02 240-37817/23 | P1300023.D |
| Level 4 | STD05 240-37817/24 | P1300024.D |
| Level 5 | STD1 240-37817/25 | P1300025.D |
| Level 6 | STD2 240-37817/26 | P1300026.D |

| ANALYTE | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 6 | | | | | RT WINDOW | AVG RT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1221 Peak 1 | 1.960 | 1.961 | 1.956 | 1.957 | 1.956 | 1.957 | | | | | 1.910 - 2.010 | 1.958 |
| PCB-1221 Peak 2 | 2.098 | 2.099 | 2.096 | 2.096 | 2.096 | 2.097 | | | | | 2.048 - 2.148 | 2.097 |
| PCB-1221 Peak 3 | 2.159 | 2.159 | 2.156 | 2.156 | 2.156 | 2.157 | | | | | 2.109 - 2.209 | 2.157 |
| PCB-1254 Peak 1 | 4.428 | 4.428 | 4.428 | 4.427 | 4.426 | 4.427 | | | | | 4.378 - 4.478 | 4.427 |
| PCB-1254 Peak 2 | 4.927 | 4.927 | 4.927 | 4.927 | 4.926 | 4.927 | | | | | 4.877 - 4.977 | 4.927 |
| PCB-1254 Peak 3 | 5.192 | 5.193 | 5.191 | 5.192 | 5.191 | 5.192 | | | | | 5.142 - 5.242 | 5.192 |
| PCB-1254 Peak 4 | 5.570 | 5.571 | 5.572 | 5.571 | 5.571 | 5.572 | | | | | 5.520 - 5.620 | 5.571 |
| PCB-1254 Peak 5 | 5.787 | 5.787 | 5.787 | 5.786 | 5.786 | 5.787 | | | | | 5.737 - 5.837 | 5.787 |

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton | Job No.: 240-13043-1 | Analy Batch No.: 37817

SDG No.:

Instrument ID: A2HP13 | GC Column: CLP-2 | ID: 0.53(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 03/23/2012 19:21 | Calibration End Date: 03/23/2012 20:36 | Calibration ID: 7667

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD005 240-37817/27 | P1300027.D |
| Level 2 | STD01 240-37817/28 | P1300028.D |
| Level 3 | STD02 240-37817/29 | P1300029.D |
| Level 4 | STD05 240-37817/30 | P1300030.D |
| Level 5 | STD1 240-37817/31 | P1300031.D |
| Level 6 | STD2 240-37817/32 | P1300032.D |

| ANALYTE | CF | | | | CURVE TYPE | COEFFICIENT | | | # | MIN CF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 5 | LVL 2<br>LVL 6 | LVL 3 | LVL 4 | | B | M1 | M2 | | | | | | | | |
| PCB-1016 Peak 1 | 37994640<br>28099950 | 35692400<br>26388065 | 34072010 | 31588362 | Ave | | 32305904.4 | | | | 14.0 | | 20.0 | | | |
| PCB-1016 Peak 2 | 71449540<br>55602353 | 70326420<br>52271968 | 63453700 | 63139138 | Ave | | 62707186.5 | | | | 12.0 | | 20.0 | | | |
| PCB-1016 Peak 3 | 149235440<br>120784004 | 142683790<br>115657775 | 135707065 | 134954890 | Ave | | 133170494 | | | | 9.6 | | 20.0 | | | |
| PCB-1016 Peak 4 | 62877180<br>51948453 | 60255550<br>49578786 | 56837740 | 57973442 | Ave | | 56578525.1 | | | | 8.9 | | 20.0 | | | |
| PCB-1016 Peak 5 | 49206740<br>42418047 | 48728610<br>40854182 | 45494340 | 47081670 | Ave | | 45630598.1 | | | | 7.4 | | 20.0 | | | |
| PCB-1260 Peak 1 | 230337560<br>123430183 | 143038530<br>118987789 | 141153700 | 135972042 | Lin1 | 4785758.32 | 118111351 | | | | | | | 0.9970 | | 0.9900 |
| PCB-1260 Peak 2 | 188809940<br>158805139 | 181162020<br>153614567 | 180374715 | 174212854 | Ave | | 172829873 | | | | 8.0 | | 20.0 | | | |
| PCB-1260 Peak 3 | 118252040<br>100014033 | 113390370<br>96651813 | 112186660 | 108629926 | Ave | | 108187474 | | | | 7.7 | | 20.0 | | | |
| PCB-1260 Peak 4 | 288832440<br>249708961 | 279958080<br>242625275 | 279856720 | 272761020 | Ave | | 268957083 | | | | 6.9 | | 20.0 | | | |
| PCB-1260 Peak 5 | 196249340<br>167274623 | 188128980<br>162638446 | 188874980 | 182229620 | Ave | | 180899331 | | | | 7.3 | | 20.0 | | | |
| Tetrachloro-m-xylene | 2212700800<br>1919551660 | 2208839800<br>1694536400 | 2191510200 | 1924520680 | Ave | | 2025276590 | | | | 11.0 | | 20.0 | | | |
| Decachlorobiphenyl | 2182601200<br>1966081980 | 2203494600<br>1736350370 | 2179767100 | 1925836080 | Ave | | 2032355222 | | | | 9.3 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 37817

SDG No.:

Instrument ID: A2HP13 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/23/2012 19:21 Calibration End Date: 03/23/2012 20:36 Calibration ID: 7667

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD005 240-37817/27 | P1300027.D |
| Level 2 | STD01 240-37817/28 | P1300028.D |
| Level 3 | STD02 240-37817/29 | P1300029.D |
| Level 4 | STD05 240-37817/30 | P1300030.D |
| Level 5 | STD1 240-37817/31 | P1300031.D |
| Level 6 | STD2 240-37817/32 | P1300032.D |

| ANALYTE | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (NG/UL) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| PCB-1016 Peak 1 | Ave | 1899732<br>52776129 | 3569240 | 6814402 | 15794181 | 28099950 | 0.0500<br>2.00 | 0.100 | 0.200 | 0.500 | 1.00 |
| PCB-1016 Peak 2 | Ave | 3572477<br>104543936 | 7032642 | 12690740 | 31569569 | 55602353 | 0.0500<br>2.00 | 0.100 | 0.200 | 0.500 | 1.00 |
| PCB-1016 Peak 3 | Ave | 7461772<br>231315551 | 14268379 | 27141413 | 67477445 | 120784004 | 0.0500<br>2.00 | 0.100 | 0.200 | 0.500 | 1.00 |
| PCB-1016 Peak 4 | Ave | 3143859<br>99157571 | 6025555 | 11367548 | 28986721 | 51948453 | 0.0500<br>2.00 | 0.100 | 0.200 | 0.500 | 1.00 |
| PCB-1016 Peak 5 | Ave | 2460337<br>81708363 | 4872861 | 9098868 | 23540835 | 42418047 | 0.0500<br>2.00 | 0.100 | 0.200 | 0.500 | 1.00 |
| PCB-1260 Peak 1 | Lin1 | 11516878<br>237975578 | 14303853 | 28230740 | 67986021 | 123430183 | 0.0500<br>2.00 | 0.100 | 0.200 | 0.500 | 1.00 |
| PCB-1260 Peak 2 | Ave | 9440497<br>307229134 | 18116202 | 36074943 | 87106427 | 158805139 | 0.0500<br>2.00 | 0.100 | 0.200 | 0.500 | 1.00 |
| PCB-1260 Peak 3 | Ave | 5912602<br>193303626 | 11339037 | 22437332 | 54314963 | 100014033 | 0.0500<br>2.00 | 0.100 | 0.200 | 0.500 | 1.00 |
| PCB-1260 Peak 4 | Ave | 14441622<br>485250550 | 27995808 | 55971344 | 136380510 | 249708961 | 0.0500<br>2.00 | 0.100 | 0.200 | 0.500 | 1.00 |
| PCB-1260 Peak 5 | Ave | 9812467<br>325276891 | 18812898 | 37774996 | 91114810 | 167274623 | 0.0500<br>2.00 | 0.100 | 0.200 | 0.500 | 1.00 |
| Tetrachloro-m-xylene | Ave | 5531752<br>169453640 | 11044199 | 21915102 | 48113017 | 95977583 | 0.00250<br>0.100 | 0.00500 | 0.0100 | 0.0250 | 0.0500 |
| Decachlorobiphenyl | Ave | 5456503<br>173635037 | 11017473 | 21797671 | 48145902 | 98304099 | 0.00250<br>0.100 | 0.00500 | 0.0100 | 0.0250 | 0.0500 |

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 37817

SDG No.:

Instrument ID: A2HP13 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/23/2012 19:21 Calibration End Date: 03/23/2012 20:36 Calibration ID: 7667

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD005 240-37817/27 | P1300027.D |
| Level 2 | STD01 240-37817/28 | P1300028.D |
| Level 3 | STD02 240-37817/29 | P1300029.D |
| Level 4 | STD05 240-37817/30 | P1300030.D |
| Level 5 | STD1 240-37817/31 | P1300031.D |
| Level 6 | STD2 240-37817/32 | P1300032.D |

| ANALYTE | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 6 | | | | | RT WINDOW | AVG RT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 Peak 1 | 2.157 | 2.158 | 2.159 | 2.156 | 2.159 | 2.157 | | | | | 2.106 - 2.206 | 2.158 |
| PCB-1016 Peak 2 | 2.581 | 2.583 | 2.584 | 2.582 | 2.583 | 2.582 | | | | | 2.532 - 2.632 | 2.583 |
| PCB-1016 Peak 3 | 3.067 | 3.067 | 3.068 | 3.067 | 3.068 | 3.067 | | | | | 3.017 - 3.117 | 3.067 |
| PCB-1016 Peak 4 | 3.212 | 3.214 | 3.214 | 3.212 | 3.214 | 3.212 | | | | | 3.162 - 3.262 | 3.213 |
| PCB-1016 Peak 5 | 3.321 | 3.323 | 3.323 | 3.322 | 3.323 | 3.321 | | | | | 3.272 - 3.372 | 3.322 |
| PCB-1260 Peak 1 | 5.398 | 5.401 | 5.400 | 5.400 | 5.400 | 5.400 | | | | | 5.350 - 5.450 | 5.400 |
| PCB-1260 Peak 2 | 5.783 | 5.784 | 5.784 | 5.784 | 5.783 | 5.782 | | | | | 5.734 - 5.834 | 5.783 |
| PCB-1260 Peak 3 | 6.216 | 6.217 | 6.217 | 6.217 | 6.216 | 6.216 | | | | | 6.167 - 6.267 | 6.217 |
| PCB-1260 Peak 4 | 6.514 | 6.515 | 6.514 | 6.515 | 6.514 | 6.515 | | | | | 6.465 - 6.565 | 6.515 |
| PCB-1260 Peak 5 | 6.912 | 6.913 | 6.913 | 6.912 | 6.911 | 6.912 | | | | | 6.862 - 6.962 | 6.912 |
| Tetrachloro-m-xylene | 1.665 | 1.667 | 1.667 | 1.664 | 1.669 | 1.666 | | | | | 1.614 - 1.714 | 1.666 |
| Decachlorobiphenyl | 8.216 | 8.216 | 8.216 | 8.215 | 8.215 | 8.215 | | | | | 8.165 - 8.265 | 8.216 |

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Lab Sample ID: ICV 240-37817/50  Calibration Date: 03/24/2012 01:04

Instrument ID: A2HP13  Calib Start Date: 03/23/2012 19:21

GC Column: CLP-2  ID: 0.53(mm)  Calib End Date: 03/23/2012 20:36

Lab File ID: P1300050.D  Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| PCB-1016 Peak 1 | Ave | 32305904 | 30725238 | | 0.951 | 1.00 | -4.9 | 20.0 |
| PCB-1016 Peak 2 | Ave | 62707187 | 57685989 | | 0.920 | 1.00 | -8.0 | 20.0 |
| PCB-1016 Peak 3 | Ave | 133170494 | 124134424 | | 0.932 | 1.00 | -6.8 | 20.0 |
| PCB-1016 Peak 4 | Ave | 56578525 | 51499126 | | 0.910 | 1.00 | -9.0 | 20.0 |
| PCB-1016 Peak 5 | Ave | 45630598 | 41911213 | | 0.919 | 1.00 | -8.2 | 20.0 |
| PCB-1260 Peak 1 | Linl | | 133989345 | | 1.09 | 1.00 | 9.0 | 20.0 |
| PCB-1260 Peak 2 | Ave | 172829873 | 168198763 | | 0.973 | 1.00 | -2.7 | 20.0 |
| PCB-1260 Peak 3 | Ave | 108187474 | 109070298 | | 1.01 | 1.00 | 0.8 | 20.0 |
| PCB-1260 Peak 4 | Ave | 268957083 | 278179444 | | 1.03 | 1.00 | 3.4 | 20.0 |
| PCB-1260 Peak 5 | Ave | 180899331 | 183658696 | | 1.02 | 1.00 | 1.5 | 20.0 |

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Lab Sample ID: ICV 240-37817/50 Calibration Date: 03/24/2012 01:04

Instrument ID: A2HP13 Calib Start Date: 03/23/2012 19:21

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/23/2012 20:36

Lab File ID: P1300050.D

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | TO | FROM |
| PCB-1016 Peak 1 | 2.16 | 2.11 | 2.21 |
| PCB-1016 Peak 2 | 2.58 | 2.53 | 2.63 |
| PCB-1016 Peak 3 | 3.07 | 3.02 | 3.12 |
| PCB-1016 Peak 4 | 3.21 | 3.16 | 3.26 |
| PCB-1016 Peak 5 | 3.32 | 3.27 | 3.37 |
| PCB-1260 Peak 1 | 5.40 | 5.35 | 5.45 |
| PCB-1260 Peak 2 | 5.78 | 5.73 | 5.83 |
| PCB-1260 Peak 3 | 6.22 | 6.17 | 6.27 |
| PCB-1260 Peak 4 | 6.51 | 6.47 | 6.57 |
| PCB-1260 Peak 5 | 6.91 | 6.86 | 6.96 |

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Instrument ID: A2HP13 Start Date: 07/19/2012 01:32

Analysis Batch Number: 51268 End Date: 07/19/2012 11:29

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| CCV 240-51268/3 CCVRT | 10/6/12 | 07/19/2012 01:32 | 1 | | CLP-1 0.53(mm) |
| CCV 240-51268/3 CCVRT | | 07/19/2012 01:32 | 1 | P1300003.D | CLP-2 0.53(mm) |
| ZZZZZ | | 07/19/2012 02:46 | 1 | | CLP-1 0.53(mm) |
| 240-13043-2 | MT-SS19-0-2 | 07/19/2012 02:46 | 1 | P1300008.D | CLP-2 0.53(mm) |
| ZZZZZ | | 07/19/2012 03:01 | 1 | | CLP-1 0.53(mm) |
| 240-13043-3 | MT-SS19-8-10 | 07/19/2012 03:01 | 1 | P1300009.D | CLP-2 0.53(mm) |
| ZZZZZ | | 07/19/2012 03:49 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/19/2012 03:49 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/19/2012 04:04 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/19/2012 04:04 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/19/2012 04:19 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/19/2012 04:19 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/19/2012 06:17 | 1 | | CLP-1 0.53(mm) |
| 240-13043-7 | MT-SS21-8-10 | 07/19/2012 06:17 | 1 | P1300013.D | CLP-2 0.53(mm) |
| ZZZZZ | | 07/19/2012 09:01 | 1 | | CLP-1 0.53(mm) |
| MB 240-51000/21-A | | 07/19/2012 09:01 | 1 | P1300024.D | CLP-2 0.53(mm) |
| CCV 240-51268/25 | | 07/19/2012 09:15 | 1 | | CLP-1 0.53(mm) |
| CCV 240-51268/25 | 10/6/12 | 07/19/2012 09:15 | 1 | P1300025.D | CLP-2 0.53(mm) |
| ZZZZZ | | 07/19/2012 11:15 | 1 | | CLP-1 0.53(mm) |
| LCS 240-51000/20-A | | 07/19/2012 11:15 | 1 | P1300033.D | CLP-2 0.53(mm) |
| CCV 240-51268/34 | | 07/19/2012 11:29 | 1 | | CLP-1 0.53(mm) |
| CCV 240-51268/34 | 10/6/12 | 07/19/2012 11:29 | 1 | P1300034.D | CLP-2 0.53(mm) |

8082A

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Lab Sample ID: CCV 240-51268/34  Calibration Date: 07/19/2012 11:29

Instrument ID: A2HP13  Calib Start Date: 03/23/2012 19:21

GC Column: CLP-2  ID: 0.53(mm)  Calib End Date: 03/23/2012 20:36

Lab File ID: P1300034.D  Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| PCB-1016 Peak 1 | Ave | 32305904 | 33247214 | | 0.515 | 0.500 | 2.9 | 20.0 |
| PCB-1016 Peak 2 | Ave | 62707187 | 70102786 | | 0.559 | 0.500 | 11.8 | 20.0 |
| PCB-1016 Peak 3 | Ave | 133170494 | 140663244 | | 0.528 | 0.500 | 5.6 | 20.0 |
| PCB-1016 Peak 4 | Ave | 56578525 | 60851174 | | 0.538 | 0.500 | 7.6 | 20.0 |
| PCB-1016 Peak 5 | Ave | 45630598 | 48677192 | | 0.533 | 0.500 | 6.7 | 20.0 |
| PCB-1260 Peak 1 | Lin1 | | 138437778 | | 0.546 | 0.500 | 9.1 | 20.0 |
| PCB-1260 Peak 2 | Ave | 172829873 | 178618912 | | 0.517 | 0.500 | 3.3 | 20.0 |
| PCB-1260 Peak 3 | Ave | 108187474 | 93603804 | | 0.433 | 0.500 | -13.5 | 20.0 |
| PCB-1260 Peak 4 | Ave | 268957083 | 213486854 | | 0.397 | 0.500 | -20.6* | 20.0 |
| PCB-1260 Peak 5 | Ave | 180899331 | 145397280 | | 0.402 | 0.500 | -19.6 | 20.0 |
| Tetrachloro-m-xylene | Ave | 2025276590 | 2242122800 | | 0.0277 | 0.0250 | 10.7 | 20.0 |
| Decachlorobiphenyl | Ave | 2032355222 | 1570790480 | | 0.0193 | 0.0250 | -22.7* | 20.0 |

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Lab Sample ID: CCV 240-51268/34 Calibration Date: 07/19/2012 11:29

Instrument ID: A2HP13 Calib Start Date: 03/23/2012 19:21

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/23/2012 20:36

Lab File ID: P1300034.D

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | TO | FROM |
| PCB-1016 Peak 1 | 2.12 | 2.07 | 2.17 |
| PCB-1016 Peak 2 | 2.55 | 2.50 | 2.60 |
| PCB-1016 Peak 3 | 3.03 | 2.98 | 3.08 |
| PCB-1016 Peak 4 | 3.17 | 3.12 | 3.22 |
| PCB-1016 Peak 5 | 3.28 | 3.23 | 3.33 |
| PCB-1260 Peak 1 | 5.35 | 5.30 | 5.40 |
| PCB-1260 Peak 2 | 5.74 | 5.69 | 5.79 |
| PCB-1260 Peak 3 | 6.17 | 6.12 | 6.22 |
| PCB-1260 Peak 4 | 6.47 | 6.42 | 6.52 |
| PCB-1260 Peak 5 | 6.86 | 6.81 | 6.91 |
| Tetrachloro-m-xylene | 1.64 | 1.59 | 1.69 |
| Decachlorobiphenyl | 8.16 | 8.11 | 8.21 |

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Instrument ID: A2HP13 Start Date: 07/19/2012 13:40

Analysis Batch Number: 51369 End Date: 07/19/2012 15:54

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| CCV 240-51369/3 CCVRT | 1016/1260 | 07/19/2012 13:40 | 1 | | CLP-1 0.53(mm) |
| CCV 240-51369/3 CCVRT | | 07/19/2012 13:40 | 1 | P1300003.D | CLP-2 0.53(mm) |
| ZZZZZ | | 07/19/2012 14:54 | 1 | | CLP-1 0.53(mm) |
| 240-13043-4 | MT-SS20-0-2 | 07/19/2012 14:54 | 1 | P1300008.D | CLP-2 0.53(mm) |
| ZZZZZ | | 07/19/2012 15:09 | 1 | | CLP-1 0.53(mm) |
| 240-13043-5 | MT-SS20-8-10 | 07/19/2012 15:09 | 1 | P1300009.D | CLP-2 0.53(mm) |
| ZZZZZ | | 07/19/2012 15:24 | 1 | | CLP-1 0.53(mm) |
| 240-13043-6 | MT-SS21-0-2 | 07/19/2012 15:24 | 1 | P1300010.D | CLP-2 0.53(mm) |
| CCV 240-51369/12 | | 07/19/2012 15:54 | 1 | | CLP-1 0.53(mm) |
| CCV 240-51369/12 | 1016/1260 | 07/19/2012 15:54 | 1 | P1300012.D | CLP-2 0.53(mm) |

8082A

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Sample No.: CCV 240-51268/3  Date Analyzed: 07/19/2012 01:32

Instrument ID: A2HP13  GC Column: CLP-2  ID: 0.53(mm)

Lab File ID (Standard): P1300003.D  Heated Purge: (Y/N) N

Calibration ID: 7667

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

| | | | | TCX | DCB | |
|---|---|---|---|---|---|---|
| | | | | RT # | RT # | |
| CONTINUING CALIBRATION SURROGATE | | | | 1.64 | 8.16 | |
| UPPER LIMIT | | | | 1.74 | 8.26 | |
| LOWER LIMIT | | | | 1.54 | 8.06 | |
| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | LAB FILE ID | | | |
| CCV 240-51268/3 CCVRT | | 07/19/2012 01:32 | P1300003.D | 1.64 | 8.16 | |
| 240-13043-2 | MT-SS19-0-2 | 07/19/2012 02:46 | P1300008.D | 1.64 | 8.16 | |
| 240-13043-3 | MT-SS19-8-10 | 07/19/2012 03:01 | P1300009.D | 1.64 | 8.16 | |
| 240-13043-7 | MT-SS21-8-10 | 07/19/2012 06:17 | P1300013.D | 1.64 | 8.16 | |
| MB 240-51000/21-A | | 07/19/2012 09:01 | P1300024.D | 1.64 | 8.16 | |
| CCV 240-51268/25 | | 07/19/2012 09:15 | P1300025.D | 1.64 | 8.16 | |
| LCS 240-51000/20-A | | 07/19/2012 11:15 | P1300033.D | 1.63 | 8.16 | |
| CCV 240-51268/34 | | 07/19/2012 11:29 | P1300034.D | 1.64 | 8.16 | |

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

TCX RT Limit = ± 0.1 minutes of surrogate RT
DCB RT Limit = ± 0.1 minutes of surrogate RT

# Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Sample No.: CCV 240-51369/3  Date Analyzed: 07/19/2012 13:40

Instrument ID: A2HP13  GC Column: CLP-2  ID: 0.53(mm)

Lab File ID (Standard): P1300003.D  Heated Purge: (Y/N) N

Calibration ID: 7667

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

| | | | | TCX | DCB | |
|---|---|---|---|---|---|---|
| | | | | RT # | RT # | |
| CONTINUING CALIBRATION SURROGATE | | | | 1.62 | 8.14 | |
| UPPER LIMIT | | | | 1.72 | 8.24 | |
| LOWER LIMIT | | | | 1.52 | 8.04 | |
| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | LAB FILE ID | | | |
| CCV 240-51369/3 CCVRT | | 07/19/2012 13:40 | P1300003.D | 1.62 | 8.14 | |
| 240-13043-4 | MT-SS20-0-2 | 07/19/2012 14:54 | P1300008.D | 1.62 | 8.14 | |
| 240-13043-5 | MT-SS20-8-10 | 07/19/2012 15:09 | P1300009.D | 1.63 | 8.14 | |
| 240-13043-6 | MT-SS21-0-2 | 07/19/2012 15:24 | P1300010.D | 1.63 | 8.14 | |
| CCV 240-51369/12 | | 07/19/2012 15:54 | P1300012.D | 1.62 | 8.14 | |

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

TCX RT Limit = ± 0.1 minutes of surrogate RT
DCB RT Limit = ± 0.1 minutes of surrogate RT

# Column used to flag values outside QC limits

FORM VIII 8082A

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Lab Sample ID: CCV 240-51268/3  Calibration Date: 07/19/2012 01:32

Instrument ID: A2HPI3  Calib Start Date: 03/23/2012 19:21

GC Column: CLP-2  ID: 0.53(mm)  Calib End Date: 03/23/2012 20:36

Lab File ID: P1300003.D  Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| PCB-1016 Peak 1 | Ave | 32305904 | 34132006 | | 0.528 | 0.500 | 5.7 | 20.0 |
| PCB-1016 Peak 2 | Ave | 62707187 | 62685180 | | 0.500 | 0.500 | -0.0 | 20.0 |
| PCB-1016 Peak 3 | Ave | 133170494 | 120692704 | | 0.453 | 0.500 | -9.4 | 20.0 |
| PCB-1016 Peak 4 | Ave | 56578525 | 48519302 | | 0.429 | 0.500 | -14.2 | 20.0 |
| PCB-1016 Peak 5 | Ave | 45630598 | 38952304 | | 0.427 | 0.500 | -14.6 | 20.0 |
| PCB-1260 Peak 1 | Lin1 | | 136948032 | | 0.539 | 0.500 | 7.8 | 20.0 |
| PCB-1260 Peak 2 | Ave | 172829873 | 179448308 | | 0.519 | 0.500 | 3.8 | 20.0 |
| PCB-1260 Peak 3 | Ave | 108187474 | 99261832 | | 0.459 | 0.500 | -8.3 | 20.0 |
| PCB-1260 Peak 4 | Ave | 268957083 | 232434226 | | 0.432 | 0.500 | -13.6 | 20.0 |
| PCB-1260 Peak 5 | Ave | 180899331 | 155383400 | | 0.430 | 0.500 | -14.1 | 20.0 |
| Tetrachloro-m-xylene | Ave | 2025276590 | 2194365960 | | 0.0271 | 0.0250 | 8.3 | 20.0 |
| Decachlorobiphenyl | Ave | 2032355222 | 1868783160 | | 0.0230 | 0.0250 | -8.0 | 20.0 |

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Lab Sample ID: CCV 240-51268/3 Calibration Date: 07/19/2012 01:32

Instrument ID: A2HP13 Calib Start Date: 03/23/2012 19:21

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/23/2012 20:36

Lab File ID: P1300003.D

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | TO | FROM |
| PCB-1016 Peak 1 | 2.12 | 2.07 | 2.17 |
| PCB-1016 Peak 2 | 2.55 | 2.50 | 2.60 |
| PCB-1016 Peak 3 | 3.03 | 2.98 | 3.08 |
| PCB-1016 Peak 4 | 3.17 | 3.12 | 3.22 |
| PCB-1016 Peak 5 | 3.28 | 3.23 | 3.33 |
| PCB-1260 Peak 1 | 5.35 | 5.30 | 5.40 |
| PCB-1260 Peak 2 | 5.74 | 5.69 | 5.79 |
| PCB-1260 Peak 3 | 6.17 | 6.12 | 6.22 |
| PCB-1260 Peak 4 | 6.47 | 6.42 | 6.52 |
| PCB-1260 Peak 5 | 6.86 | 6.81 | 6.91 |
| Tetrachloro-m-xylene | 1.64 | 1.59 | 1.69 |
| Decachlorobiphenyl | 8.16 | 8.11 | 8.21 |

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Lab Sample ID: CCV 240-51268/25 Calibration Date: 07/19/2012 09:15

Instrument ID: A2HP13 Calib Start Date: 03/23/2012 19:21

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/23/2012 20:36

Lab File ID: P1300025.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| PCB-1016 Peak 1 | Ave | 32305904 | 33665656 | | 0.521 | 0.500 | 4.2 | 20.0 |
| PCB-1016 Peak 2 | Ave | 62707187 | 66684316 | | 0.532 | 0.500 | 6.3 | 20.0 |
| PCB-1016 Peak 3 | Ave | 133170494 | 134128584 | | 0.504 | 0.500 | 0.7 | 20.0 |
| PCB-1016 Peak 4 | Ave | 56578525 | 56655654 | | 0.501 | 0.500 | 0.1 | 20.0 |
| PCB-1016 Peak 5 | Ave | 45630598 | 44504536 | | 0.488 | 0.500 | -2.5 | 20.0 |
| PCB-1260 Peak 1 | Lin1 | | 130034420 | | 0.510 | 0.500 | 2.0 | 20.0 |
| PCB-1260 Peak 2 | Ave | 172829873 | 166547496 | | 0.482 | 0.500 | -3.6 | 20.0 |
| PCB-1260 Peak 3 | Ave | 108187474 | 88579840 | | 0.409 | 0.500 | -18.1 | 20.0 |
| PCB-1260 Peak 4 | Ave | 268957083 | 211468150 | | 0.393 | 0.500 | -21.4* | 20.0 |
| PCB-1260 Peak 5 | Ave | 180899331 | 137052738 | | 0.379 | 0.500 | -24.2* | 20.0 |
| Tetrachloro-m-xylene | Ave | 2025276590 | 2195207040 | | 0.0271 | 0.0250 | 8.4 | 20.0 |
| Decachlorobiphenyl | Ave | 2032355222 | 1470676560 | | 0.0181 | 0.0250 | -27.6* | 20.0 |

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Lab Sample ID: CCV 240-51268/25 Calibration Date: 07/19/2012 09:15

Instrument ID: A2HP13 Calib Start Date: 03/23/2012 19:21

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/23/2012 20:36

Lab File ID: P1300025.D

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | TO | FROM |
| PCB-1016 Peak 1 | 2.12 | 2.07 | 2.17 |
| PCB-1016 Peak 2 | 2.55 | 2.50 | 2.60 |
| PCB-1016 Peak 3 | 3.03 | 2.98 | 3.08 |
| PCB-1016 Peak 4 | 3.17 | 3.12 | 3.22 |
| PCB-1016 Peak 5 | 3.28 | 3.23 | 3.33 |
| PCB-1260 Peak 1 | 5.35 | 5.30 | 5.40 |
| PCB-1260 Peak 2 | 5.74 | 5.69 | 5.79 |
| PCB-1260 Peak 3 | 6.17 | 6.12 | 6.22 |
| PCB-1260 Peak 4 | 6.46 | 6.41 | 6.51 |
| PCB-1260 Peak 5 | 6.86 | 6.81 | 6.91 |
| Tetrachloro-m-xylene | 1.64 | 1.59 | 1.69 |
| Decachlorobiphenyl | 8.16 | 8.11 | 8.21 |

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Lab Sample ID: CCV 240-51369/3 Calibration Date: 07/19/2012 13:40

Instrument ID: A2HP13 Calib Start Date: 03/23/2012 19:21

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/23/2012 20:36

Lab File ID: P1300003.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| PCB-1016 Peak 1 | Ave | 32305904 | 35455232 | | 0.549 | 0.500 | 9.7 | 20.0 |
| PCB-1016 Peak 2 | Ave | 62707187 | 70811760 | | 0.565 | 0.500 | 12.9 | 20.0 |
| PCB-1016 Peak 3 | Ave | 133170494 | 151993184 | | 0.571 | 0.500 | 14.1 | 20.0 |
| PCB-1016 Peak 4 | Ave | 56578525 | 64465796 | | 0.570 | 0.500 | 13.9 | 20.0 |
| PCB-1016 Peak 5 | Ave | 45630598 | 51699766 | | 0.567 | 0.500 | 13.3 | 20.0 |
| PCB-1260 Peak 1 | Lin1 | | 155901466 | | 0.620 | 0.500 | 23.9* | 20.0 |
| PCB-1260 Peak 2 | Ave | 172829873 | 210632384 | | 0.609 | 0.500 | 21.9* | 20.0 |
| PCB-1260 Peak 3 | Ave | 108187474 | 112541170 | | 0.520 | 0.500 | 4.0 | 20.0 |
| PCB-1260 Peak 4 | Ave | 268957083 | 273375302 | | 0.508 | 0.500 | 1.6 | 20.0 |
| PCB-1260 Peak 5 | Ave | 180899331 | 185051188 | | 0.512 | 0.500 | 2.3 | 20.0 |
| Tetrachloro-m-xylene | Ave | 2025276590 | 2259582560 | | 0.0279 | 0.0250 | 11.6 | 20.0 |
| Decachlorobiphenyl | Ave | 2032355222 | 1948649120 | | 0.0240 | 0.0250 | -4.1 | 20.0 |

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Lab Sample ID: CCV 240-51369/3 Calibration Date: 07/19/2012 13:40

Instrument ID: A2HP13 Calib Start Date: 03/23/2012 19:21

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/23/2012 20:36

Lab File ID: P1300003.D

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | TO | FROM |
| PCB-1016 Peak 1 | 2.11 | 2.06 | 2.16 |
| PCB-1016 Peak 2 | 2.53 | 2.48 | 2.58 |
| PCB-1016 Peak 3 | 3.01 | 2.96 | 3.06 |
| PCB-1016 Peak 4 | 3.16 | 3.11 | 3.21 |
| PCB-1016 Peak 5 | 3.27 | 3.22 | 3.32 |
| PCB-1260 Peak 1 | 5.33 | 5.28 | 5.38 |
| PCB-1260 Peak 2 | 5.72 | 5.67 | 5.77 |
| PCB-1260 Peak 3 | 6.15 | 6.10 | 6.20 |
| PCB-1260 Peak 4 | 6.45 | 6.40 | 6.50 |
| PCB-1260 Peak 5 | 6.84 | 6.79 | 6.89 |
| Tetrachloro-m-xylene | 1.62 | 1.57 | 1.67 |
| Decachlorobiphenyl | 8.14 | 8.09 | 8.19 |

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Lab Sample ID: CCV 240-51369/12 Calibration Date: 07/19/2012 15:54

Instrument ID: A2HP13 Calib Start Date: 03/23/2012 19:21

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/23/2012 20:36

Lab File ID: P1300012.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| PCB-1016 Peak 1 | Ave | 32305904 | 33646960 | | 0.521 | 0.500 | 4.2 | 20.0 |
| PCB-1016 Peak 2 | Ave | 62707187 | 67393932 | | 0.537 | 0.500 | 7.5 | 20.0 |
| PCB-1016 Peak 3 | Ave | 133170494 | 148348680 | | 0.557 | 0.500 | 11.4 | 20.0 |
| PCB-1016 Peak 4 | Ave | 56578525 | 59899132 | | 0.529 | 0.500 | 5.9 | 20.0 |
| PCB-1016 Peak 5 | Ave | 45630598 | 48058280 | | 0.527 | 0.500 | 5.3 | 20.0 |
| PCB-1260 Peak 1 | Lin1 | | 154842652 | | 0.615 | 0.500 | 23.0* | 20.0 |
| PCB-1260 Peak 2 | Ave | 172829873 | 202194812 | | 0.585 | 0.500 | 17.0 | 20.0 |
| PCB-1260 Peak 3 | Ave | 108187474 | 109872680 | | 0.508 | 0.500 | 1.6 | 20.0 |
| PCB-1260 Peak 4 | Ave | 268957083 | 270741838 | | 0.503 | 0.500 | 0.7 | 20.0 |
| PCB-1260 Peak 5 | Ave | 180899331 | 188147990 | | 0.520 | 0.500 | 4.0 | 20.0 |
| Tetrachloro-m-xylene | Ave | 2025276590 | 2246686800 | | 0.0277 | 0.0250 | 10.9 | 20.0 |
| Decachlorobiphenyl | Ave | 2032355222 | 2059080560 | | 0.0253 | 0.0250 | 1.3 | 20.0 |

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Lab Sample ID: CCV 240-51369/12 Calibration Date: 07/19/2012 15:54

Instrument ID: A2HP13 Calib Start Date: 03/23/2012 19:21

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/23/2012 20:36

Lab File ID: P1300012.D

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | TO | FROM |
| PCB-1016 Peak 1 | 2.11 | 2.06 | 2.16 |
| PCB-1016 Peak 2 | 2.53 | 2.48 | 2.58 |
| PCB-1016 Peak 3 | 3.01 | 2.96 | 3.06 |
| PCB-1016 Peak 4 | 3.16 | 3.11 | 3.21 |
| PCB-1016 Peak 5 | 3.27 | 3.22 | 3.32 |
| PCB-1260 Peak 1 | 5.34 | 5.29 | 5.39 |
| PCB-1260 Peak 2 | 5.72 | 5.67 | 5.77 |
| PCB-1260 Peak 3 | 6.15 | 6.10 | 6.20 |
| PCB-1260 Peak 4 | 6.45 | 6.40 | 6.50 |
| PCB-1260 Peak 5 | 6.84 | 6.79 | 6.89 |
| Tetrachloro-m-xylene | 1.62 | 1.57 | 1.67 |
| Decachlorobiphenyl | 8.14 | 8.09 | 8.19 |

FORM IV
GC SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Lab Sample ID: MB 240-51000/21-A

Matrix: Solid Date Extracted: 07/17/2012 08:46

Lab File ID:(1) P1300024.D Lab File ID:(2)

Date Analyzed:(1) 07/19/2012 09:01 Date Analyzed:(2)

Instrument ID:(1) A2HP13 Instrument ID:(2)

GC Column:(1) CLP-2 ID: 0.53(mm) GC Column:(2) ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | DATE ANALYZED 1 | DATE ANALYZED 2 |
|---|---|---|---|
| MT-SS19-0-2 | 240-13043-2 | 07/19/2012 02:46 | |
| MT-SS19-8-10 | 240-13043-3 | 07/19/2012 03:01 | |
| MT-SS21-8-10 | 240-13043-7 | 07/19/2012 06:17 | |
| | LCS 240-51000/20-A | 07/19/2012 11:15 | |
| MT-SS20-0-2 | 240-13043-4 | 07/19/2012 14:54 | |
| MT-SS20-8-10 | 240-13043-5 | 07/19/2012 15:09 | |
| MT-SS21-0-2 | 240-13043-6 | 07/19/2012 15:24 | |

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-51000/21-A

Matrix: Solid | Lab File ID: P1300024.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3540C | Date Extracted: 07/17/2012 08:46

Sample wt/vol: 30(g) | Date Analyzed: 07/19/2012 09:01

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(mL) | GC Column: CLP-2 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51268 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 33 | U | 33 | 21 |
| 11104-28-2 | Aroclor-1221 | 33 | U | 33 | 16 |
| 11141-16-5 | Aroclor-1232 | 33 | U | 33 | 14 |
| 53469-21-9 | Aroclor-1242 | 33 | U | 33 | 13 |
| 12672-29-6 | Aroclor-1248 | 33 | U | 33 | 17 |
| 11097-69-1 | Aroclor-1254 | 33 | U | 33 | 17 |
| 11096-82-5 | Aroclor-1260 | 33 | U | 33 | 17 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 877-09-8 | Tetrachloro-m-xylene | 66 | | 29-151 |
| 2051-24-3 | Decachlorobiphenyl | 61 | | 14-163 |

FORM III
GC SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: P1300033.D

Lab ID: LCS 240-51000/20-A Client ID:

| COMPOUND | SPIKE ADDED (ug/Kg) | LCS CONCENTRATION (ug/Kg) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| Aroclor-1016 | 333 | 313 | 94 | 62-120 | |
| Aroclor-1260 | 333 | 278 | 83 | 56-122 | |

# Column to be used to flag recovery and RPD values

FORM III 8082A

FORM II
GC SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): CLP-2 ID: 0.53 (mm)

| Client Sample ID | Lab Sample ID | TCX1 # | DCB1 # |
|---|---|---|---|
| MT-SS19-0-2 | 240-13043-2 | 70 | 100 |
| MT-SS19-8-10 | 240-13043-3 | 81 | 102 |
| MT-SS20-0-2 | 240-13043-4 | 90 | 83 |
| MT-SS20-8-10 | 240-13043-5 | 95 | 117 |
| MT-SS21-0-2 | 240-13043-6 | 76 | 116 |
| MT-SS21-8-10 | 240-13043-7 | 55 | 74 |
| | MB 240-51000/21-A | 66 | 61 |
| | LCS 240-51000/20-A | 102 | 76 |

| | QC LIMITS |
|---|---|
| TCX = Tetrachloro-m-xylene | 29-151 |
| DCB = Decachlorobiphenyl | 14-163 |

# Column to be used to flag recovery values

FORM II 8082A

| **VOC CALCULATION** | SAMPLE | | |
|---|---|---|---|
| | MT-SS20-8-10 | | |
| TARGET ANALYTE | trichloroethene | | |
| ANALYTE RESPONSE | 747600 | | |
| INTERNAL STANDARD | fluorobenzene | | |
| I.S. RESPONSE | 1307494 | | |
| I.S. CONCENTRATION | 50 | ug/kg | |
| ANALYTE CAL. RF | 0.2487 | | |
| DILUTION FACTOR (DF) | 1 | | |
| WEIGHT SAMPLE | 5.952 | grams | |
| SOLIDS (percent /100) | 0.85 | | |
| FINAL VOLUME | 5 | ml | |

$$\frac{\text{(ANALYTE RESPONSE) X ( I.S. CONCENTRATION) X DF X FINAL VOL.}}{\text{(I.S. RESPONSE) X (CAL. R.F.) X WEIGHT (gms) X SOLIDS}} = \begin{array}{ll} 113.60880 & \text{ug/kg} \\ 0.113608798 & \text{mg/kg} \end{array}$$

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS21-8-10  Lab Sample ID: 240-13043-7

Matrix: Solid  Lab File ID: UX89762.D

Analysis Method: 8260B  Date Collected: 07/09/2012 14:35

Sample wt/vol: 5.952(g)  Date Analyzed: 07/12/2012 03:18

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture: 15.0  Level: (low/med) Low

Analysis Batch No.: 50546  Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 56-23-5 | Carbon tetrachloride | 4.4 | J | 4.9 | 0.37 |
| 108-90-7 | Chlorobenzene | 4.9 | U | 4.9 | 0.33 |
| 75-00-3 | Chloroethane | 4.9 | U | 4.9 | 0.85 |
| 67-66-3 | Chloroform | 4.9 | U | 4.9 | 0.29 |
| 74-87-3 | Chloromethane | 4.9 | U | 4.9 | 0.41 |
| 156-59-2 | cis-1,2-Dichloroethene | 4.9 | U | 4.9 | 0.36 |
| 10061-01-5 | cis-1,3-Dichloropropene | 4.9 | U | 4.9 | 0.34 |
| 124-48-1 | Dibromochloromethane | 4.9 | U | 4.9 | 0.54 |
| 74-95-3 | Dibromomethane | 4.9 | U | 4.9 | 0.62 |
| 75-71-8 | Dichlorodifluoromethane | 4.9 | U | 4.9 | 0.49 |
| 108-20-3 | Diisopropyl ether | 9.9 | U | 9.9 | 1.5 |
| 100-41-4 | Ethylbenzene | 4.9 | U | 4.9 | 0.26 |
| 637-92-3 | Ethyl-t-butyl ether (ETBE) | 4.9 | U | 4.9 | 0.22 |
| 87-68-3 | Hexachlorobutadiene | 4.9 | U | 4.9 | 1.2 |
| 98-82-8 | Isopropylbenzene | 4.9 | U | 4.9 | 0.16 |
| 1634-04-4 | Methyl tert-butyl ether | 20 | U | 20 | 0.42 |
| 75-09-2 | Methylene Chloride | 0.66 | J B | 4.9 | 0.66 |
| 179601-23-1 | m-Xylene & p-Xylene | 9.9 | U | 9.9 | 1.2 |
| 91-20-3 | Naphthalene | 4.9 | U | 4.9 | 0.19 |
| 104-51-8 | n-Butylbenzene | 4.9 | U | 4.9 | 0.23 |
| 103-65-1 | n-Propylbenzene | 4.9 | U | 4.9 | 0.40 |
| 95-47-6 | o-Xylene | 4.9 | U | 4.9 | 0.35 |
| 99-87-6 | p-Isopropyltoluene | 4.9 | U | 4.9 | 0.21 |
| 135-98-8 | sec-Butylbenzene | 4.9 | U | 4.9 | 0.18 |
| 100-42-5 | Styrene | 4.9 | U | 4.9 | 0.15 |
| 994-05-8 | Tert-amyl-methyl ether (TAME) | 4.9 | U | 4.9 | 0.37 |
| 75-65-0 | tert-Butyl alcohol | 200 | U | 200 | 7.5 |
| 98-06-6 | tert-Butylbenzene | 4.9 | U | 4.9 | 0.29 |
| 127-18-4 | Tetrachloroethene | 4.9 | U | 4.9 | 0.51 |
| 108-88-3 | Toluene | 4.9 | U | 4.9 | 0.27 |
| 156-60-5 | trans-1,2-Dichloroethene | 4.9 | U | 4.9 | 0.41 |
| 10061-02-6 | trans-1,3-Dichloropropene | 4.9 | U | 4.9 | 0.53 |
| 79-01-6 | Trichloroethene | 110 |  | 4.9 | 0.42 |
| 75-69-4 | Trichlorofluoromethane | 4.9 | U | 4.9 | 0.34 |
| 108-05-4 | Vinyl acetate | 9.9 | U | 9.9 | 0.25 |
| 75-01-4 | Vinyl chloride | 4.9 | U | 4.9 | 0.39 |

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX8\20120711-11491.b\UX89762.D
Lims ID: 240-13043-B-7-A Client ID: MT-SS21-8-10
Inject. Date: 12-Jul-2012 03:18:30 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 240-0011491-012
Misc. Info.: M20711A,8260SUX8,,402279 =M20711A,8260SUX8,,402279
Operator: 402279 Instrument ID: A3UX8
Vol. Injected: 1.0000 ALS Bottle#: 11
Lims Batch ID: 50546 Lims Sample ID: 12
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A3UX8\20120711-11491.b\8260_8.m
Last Update: 12-Jul-2012 20:13:38 Calib Date: 01-Jun-2012 06:44:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX8\20120601-10421.b\UX88970.D
Limit Group: MSV 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Process Host: CORP-CTX-15

First Level Reviewer: latat Date: 12-Jul-2012 03:46:23

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 5.156 | 5.159 | -0.003 | 99 | 1307494 | 50.0 | |
| * 2 Chlorobenzene-d5 | 117 | 7.687 | 7.678 | 0.009 | 86 | 1050784 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 9.875 | 9.878 | -0.003 | 98 | 577934 | 50.0 | |
| $ 5 Dibromofluoromethane (Surr) | 113 | 4.623 | 4.627 | -0.004 | 60 | 267107 | 44.5 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 4.895 | 4.887 | 0.008 | 89 | 248901 | 45.5 | |
| $ 7 Toluene-d8 (Surr) | 98 | 6.421 | 6.424 | -0.003 | 92 | 1028861 | 44.7 | |
| $ 131 4-Bromofluorobenzene (Surr) | 95 | 8.763 | 8.755 | 0.008 | 97 | 347738 | 46.0 | |
| 12 Dichlorodifluoromethane | 85 | | 1.587 | | | | | |
| 13 Chloromethane | 50 | | 1.752 | | | | | |
| 14 Vinyl chloride | 62 | | 1.870 | | | | | |
| 15 Bromomethane | 94 | | 2.178 | | | | | |
| 16 Chloroethane | 64 | | 2.273 | | | | | |
| 18 Trichlorofluoromethane | 101 | | 2.497 | | | | | |
| 21 1,1-Dichloroethene | 96 | | 2.923 | | | | | |
| 23 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | | 2.947 | | | | | |
| 22 Acetone | 43 | | 2.959 | | | | | |
| 26 Carbon disulfide | 76 | | 3.112 | | | | | |
| 30 Methylene Chloride | 84 | 3.298 | 3.302 | -0.004 | 93 | 24276 | 0.6640 | |
| 31 2-Methyl-2-propanol | 59 | | 3.385 | | | | | |
| 33 trans-1,2-Dichloroethene | 96 | | 3.515 | | | | | |
| 34 Methyl tert-butyl ether | 73 | | 3.526 | | | | | |
| 36 1,1-Dichloroethane | 63 | | 3.834 | | | | | |
| 37 Vinyl acetate | 86 | | 3.858 | | | | | |
| 38 Isopropyl ether | 87 | | 3.880 | | | | | |
| 40 Tert-butyl ethyl ether | 59 | | 4.152 | | | | | |
| 41 2-Butanone (MEK) | 43 | | 4.272 | | | | | |
| 42 cis-1,2-Dichloroethene | 96 | | 4.272 | | | | | |
| 43 2,2-Dichloropropane | 77 | | 4.283 | | | | | |
| 47 Chlorobromomethane | 128 | | 4.461 | | | | | |
| 49 Chloroform | 83 | | 4.508 | | | | | |
| 50 1,1,1-Trichloroethane | 97 | | 4.662 | | | | | |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| 52 1,1-Dichloropropene | 75 | | 4.792 | | | | | |
| 53 Carbon tetrachloride | 117 | 4.801 | 4.804 | -0.003 | 71 | 24368 | 4.45 | |
| 55 Benzene | 78 | | 4.946 | | | | | |
| 56 1,2-Dichloroethane | 62 | | 4.946 | | | | | |
| 57 Tert-amyl methyl ether | 73 | | 5.016 | | | | | |
| 60 Trichloroethene | 130 | 5.439 | 5.443 | -0.004 | 89 | 747600 | 114.9 | |
| 62 1,2-Dichloropropane | 63 | | 5.620 | | | | | |
| 65 Dibromomethane | 93 | | 5.715 | | | | | |
| 67 Dichlorobromomethane | 83 | | 5.821 | | | | | |
| 69 2-Chloroethyl vinyl ether | 63 | | 6.046 | | | | | |
| 70 cis-1,3-Dichloropropene | 75 | | 6.188 | | | | | |
| 71 4-Methyl-2-pentanone (MIBK) | 43 | | 6.306 | | | | | |
| 72 Toluene | 91 | | 6.484 | | | | | |
| 73 trans-1,3-Dichloropropene | 75 | | 6.637 | | | | | |
| 77 Tetrachloroethene | 164 | | 6.957 | | | | | |
| 76 1,3-Dichloropropane | 76 | | 6.957 | | | | | |
| 78 2-Hexanone | 43 | | 7.004 | | | | | |
| 79 Chlorodibromomethane | 129 | | 7.158 | | | | | |
| 123 Ethylene Dibromide | 107 | | 7.276 | | | | | |
| 82 Chlorobenzene | 112 | | 7.714 | | | | | |
| 83 1,1,1,2-Tetrachloroethane | 131 | | 7.773 | | | | | |
| 84 Ethylbenzene | 106 | | 7.797 | | | | | |
| 10 m-Xylene & p-Xylene | 106 | | 7.903 | | | | | |
| 85 o-Xylene | 106 | | 8.270 | | | | | |
| 86 Styrene | 104 | | 8.282 | | | | | |
| 87 Bromoform | 173 | | 8.459 | | | | | |
| 88 Isopropylbenzene | 105 | | 8.613 | | | | | |
| 90 1,1,2,2-Tetrachloroethane | 83 | | 8.873 | | | | | |
| 91 Bromobenzene | 156 | | 8.908 | | | | | |
| 92 1,2,3-Trichloropropane | 110 | | 8.920 | | | | | |
| 94 N-Propylbenzene | 120 | | 9.003 | | | | | |
| 95 2-Chlorotoluene | 126 | | 9.098 | | | | | |
| 104 4-Chlorotoluene | 126 | | 9.192 | | | | | |
| 97 tert-Butylbenzene | 119 | | 9.488 | | | | | |
| 98 1,2,4-Trimethylbenzene | 105 | | 9.535 | | | | | |
| 99 sec-Butylbenzene | 105 | | 9.701 | | | | | |
| 100 1,3-Dichlorobenzene | 146 | | 9.819 | | | | | |
| 101 4-Isopropyltoluene | 119 | | 9.843 | | | | | |
| 102 1,4-Dichlorobenzene | 146 | | 9.902 | | | | | |
| 103 1,2,3-Trimethylbenzene | 105 | | 9.948 | | | | | |
| 105 n-Butylbenzene | 91 | | 10.233 | | | | | |
| 106 1,2-Dichlorobenzene | 146 | | 10.269 | | | | | |
| 107 1,2-Dibromo-3-Chloropropane | 157 | | 11.026 | | | | | |
| 109 1,2,4-Trichlorobenzene | 180 | | 11.854 | | | | | |
| 110 Hexachlorobutadiene | 225 | | 12.031 | | | | | |
| 111 Naphthalene | 128 | | 12.102 | | | | | |
| 112 1,2,3-Trichlorobenzene | 180 | | 12.362 | | | | | |
| S 114 Xylenes, Total | 106 | | 16.530 | | | | | |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 45924

SDG No.:

Instrument ID: A3UX8 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 06/01/2012 02:08 Calibration End Date: 06/01/2012 04:37 Calibration ID: 9093

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1 LVL 6 | LVL 2 LVL 7 | LVL 3 LVL 8 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 2-Chloroethyl vinyl ether | +++++ 0.0238 | 0.0169 0.0267 | 0.0204 0.0313 | 0.0219 | 0.0233 | Qua | -0.015 | 0.0220 | 0 | | | | | | 1.0000 | | 0.9900 |
| Trichloroethene | 0.2243 0.2513 | 0.2509 0.2603 | 0.2313 0.2649 | 0.2539 | 0.2532 | Ave | | 0.2487 | | | | 5.6 | | 15.0 | | | |
| Methylcyclohexane | 0.2118 0.4003 | 0.1912 0.4082 | 0.3418 0.3981 | 0.3665 | 0.3811 | Lin1 | -0.277 | 0.4027 | | | | | | | 0.9990 | | 0.9900 |
| 1,2-Dichloropropane | 0.1805 0.2033 | 0.1843 0.2080 | 0.1938 0.2127 | 0.2041 | 0.2031 | Ave | | 0.1987 | | | | 5.7 | | 15.0 | | | |
| Dibromomethane | 0.0952 0.1194 | 0.1175 0.1219 | 0.1139 0.1271 | 0.1138 | 0.1216 | Ave | | 0.1163 | | | | 8.2 | | 15.0 | | | |
| 1,4-Dioxane | 0.0025 0.0020 | 0.0025 0.0020 | 0.0020 0.0019 | 0.0021 | 0.0024 | Ave | | 0.0022 | | | | 10.0 | | 15.0 | | | |
| Bromodichloromethane | 0.2015 0.2316 | 0.1911 0.2459 | 0.2026 0.2570 | 0.2127 | 0.2244 | Ave | | 0.2208 | | | | 10.0 | | 15.0 | | | |
| cis-1,3-Dichloropropene | 0.1591 0.2647 | 0.1991 0.2829 | 0.2037 0.2992 | 0.2262 | 0.2547 | Lin1 | -0.224 | 0.2889 | | | | | | | 0.9970 | | 0.9900 |
| 4-Methyl-2-pentanone | 0.2036 0.2427 | 0.2289 0.2447 | 0.2315 0.2610 | 0.2391 | 0.2431 | Ave | | 0.2368 | | | | 7.0 | | 15.0 | | | |
| Toluene | 1.2618 1.1963 | 1.0799 1.1982 | 1.1210 1.2635 | 1.2019 | 1.1935 | Ave | | 1.1895 | | | | 5.3 | | 15.0 | | | |
| trans-1,3-Dichloropropene | 0.2005 0.2816 | 0.1787 0.3038 | 0.2057 0.3318 | 0.2370 | 0.2604 | Qua | -0.299 | 0.2765 | 0.0003 | | | | | | 1.0000 | | 0.9900 |
| Ethyl methacrylate | 0.1819 0.2949 | 0.2235 0.3018 | 0.2312 0.3253 | 0.2658 | 0.2936 | Lin1 | -0.211 | 0.3144 | | | | | | | 0.9980 | | 0.9900 |
| 1,1,2-Trichloroethane | 0.2105 0.2310 | 0.2365 0.2316 | 0.2154 0.2478 | 0.2322 | 0.2385 | Ave | | 0.2304 | | | | 5.3 | | 15.0 | | | |
| 1,3-Dichloropropane | 0.3751 0.3653 | 0.3792 0.3653 | 0.3575 0.3841 | 0.3601 | 0.3777 | Ave | | 0.3705 | | | | 2.6 | | 15.0 | | | |
| Tetrachloroethene | 0.1897 0.2669 | 0.2069 0.2690 | 0.2355 0.2762 | 0.2606 | 0.2664 | Ave | | 0.2464 | | | | 13.0 | | 15.0 | | | |
| 2-Hexanone | 0.1516 0.1976 | 0.1995 0.1883 | 0.1988 0.2091 | 0.2053 | 0.2036 | Ave | | 0.1942 | | | | 9.4 | | 15.0 | | | |
| Dibromochloromethane | 0.1902 0.2816 | 0.1961 0.2914 | 0.2080 0.3169 | 0.2388 | 0.2644 | Lin1 | -0.234 | 0.3036 | | | | | | | 0.9960 | | 0.9900 |
| 1,2-Dibromoethane | 0.2149 0.2489 | 0.2178 0.2450 | 0.2240 0.2636 | 0.2394 | 0.2552 | Ave | | 0.2386 | | | | 7.5 | | 15.0 | | | |
| Chlorobenzene | 0.8847 0.8463 | 0.7973 0.8554 | 0.8028 0.8959 | 0.8434 | 0.8568 | Ave | | 0.8478 | | | 0.3000 | 4.1 | | 15.0 | | | |
| 1,1,1,2-Tetrachloroethane | 0.2543 0.3065 | 0.2260 0.3130 | 0.2496 0.3239 | 0.2668 | 0.2844 | Ave | | 0.2781 | | | | 12.0 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

**PAH CALCULATION**

| | SAMPLE | | |
|---|---|---|---|
| | MT-SS20-8-10 | | |
| TARGET ANALYTE | benzo(a)anthracene | | |
| ANALYTE RESPONSE | 27851 | | |
| INTERNAL STANDARD | chrysene-d12 | | |
| I.S. RESPONSE | 645765 | | |
| I.S. CONCENTRATION | 4 | ug/ml | |
| ANALYTE CAL. RF | 1.32 | | |
| DILUTION FACTOR (DF) | 1 | | |
| WEIGHT SAMPLE | 30.1 | grams | |
| SOLIDS (percent /100) | 0.822 | | |
| FINAL VOLUME | 2000 | µL | |
| INJECTION VOLUME | 1 | µL | |
| CORRECTION FACTOR CF1 | 1000 | | |
| | 0.227719495 | on column | |
| (ANALYTE RESPONSE) X ( I.S. CONCENTRATION) X DF X FINAL VOL.X CF1 / (I.S. RESPONSE) X (CAL. R.F.) X WEIGHT (gms) X SOLIDS x INJ. VOL. | = | 10.5644 | ug/kg |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Client Sample ID: MT-SS20-8-10 | Lab Sample ID: 240-13043-5

Matrix: Solid | Lab File ID: 20720019.D

Analysis Method: 8270D | Date Collected: 07/09/2012 13:45

Extract. Method: 3540C | Date Extracted: 07/18/2012 11:30

Sample wt/vol: 30.10(g) | Date Analyzed: 07/20/2012 15:12

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 17.8 82.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51476 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 61 | U | 61 | 33 |
| 123-91-1 | 1,4-Dioxane | 120 | U | 120 | 27 |
| 88-06-2 | 2,4,6-Trichlorophenol | 180 | U | 180 | 97 |
| 95-95-4 | 2,4,5-Trichlorophenol | 180 | U | 180 | 30 |
| 120-83-2 | 2,4-Dichlorophenol | 180 | U | 180 | 24 |
| 105-67-9 | 2,4-Dimethylphenol | 180 | U | 180 | 24 |
| 51-28-5 | 2,4-Dinitrophenol | 400 | U | 400 | 97 |
| 121-14-2 | 2,4-Dinitrotoluene | 240 | U | 240 | 33 |
| 91-58-7 | 2-Chloronaphthalene | 61 | U | 61 | 4.0 |
| 95-57-8 | 2-Chlorophenol | 61 | U | 61 | 33 |
| 91-57-6 | 2-Methylnaphthalene | 8.1 | U | 8.1 | 4.0 |
| 95-48-7 | 2-Methylphenol | 240 | U | 240 | 97 |
| 88-74-4 | 2-Nitroaniline | 240 | U | 240 | 11 |
| 88-75-5 | 2-Nitrophenol | 61 | U | 61 | 33 |
| 15831-10-4 | 3 & 4 Methylphenol | 490 | U | 490 | 24 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 120 | U | 120 | 22 |
| 99-09-2 | 3-Nitroaniline | 240 | U | 240 | 19 |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 180 | U | 180 | 97 |
| 101-55-3 | 4-Bromophenyl phenyl ether | 61 | U | 61 | 16 |
| 59-50-7 | 4-Chloro-3-methylphenol | 180 | U | 180 | 25 |
| 106-47-8 | 4-Chloroaniline | 180 | U | 180 | 21 |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 61 | U | 61 | 16 |
| 100-01-6 | 4-Nitroaniline | 240 | U | 240 | 32 |
| 83-32-9 | Acenaphthene | 8.1 | U | 8.1 | 4.0 |
| 208-96-8 | Acenaphthylene | 8.1 | U | 8.1 | 4.0 |
| 98-86-2 | Acetophenone | 120 | U | 120 | 11 |
| 120-12-7 | Anthracene | 8.1 | U | 8.1 | 4.0 |
| 1912-24-9 | Atrazine | 240 | U | 240 | 11 |
| 100-52-7 | Benzaldehyde | 120 | U | 120 | 15 |
| 56-55-3 | Benzo[a]anthracene | 11 | | 8.1 | 4.0 |
| 50-32-8 | Benzo[a]pyrene | 16 | | 8.1 | 4.0 |
| 205-99-2 | Benzo[b]fluoranthene | 15 | | 8.1 | 4.0 |
| 191-24-2 | Benzo[g,h,i]perylene | 15 | | 8.1 | 4.0 |
| 207-08-9 | Benzo[k]fluoranthene | 7.2 | J | 8.1 | 4.0 |

TestAmerica Laboratories
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Ncchrom\ChromData\A4HP7\20120720-11697.b\20720019.D | | |
| Lims ID: | 240-13043-G-5-C | Client ID: | MT-SS20-8-10 |
| Inject. Date: | 20-Jul-2012 15:12:30 | Dil. Factor: | 1.0000 |
| Sample Type: | Client | | |
| Sample ID: | 240-0011697-019 | | |
| Misc. Info.: | 240-13043-g-5-c | | |
| Operator: | 001710 | Instrument ID: | A4HP7 |
| Vol. Injected: | 1.0000 | ALS Bottle#: | 19 |
| Lims Batch ID: | 51476 | Lims Sample ID: | 19 |
| Detector: | MS SCAN | | |
| Method: | \\Ncchrom\ChromData\A4HP7\20120720-11697.b\8270_hp7.m | | |
| Last Update: | 23-Jul-2012 15:10:16 | Calib Date: | 11-Jul-2012 19:23:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Ncchrom\ChromData\A4HP7\20120711-11474.b\20711028.D | | |
| Limit Group: | MSS 8270D ICAL | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Process Host: | XAWRK015 | | |
| First Level Reviewer: gruberj | | Date: | 23-Jul-2012 14:53:48 |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ng/ul | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Dichlorobenzene-d4 | 152 | 3.402 | 3.407 | -0.005 | 94 | 187913 | 4.00 | |
| * 2 Naphthalene-d8 | 136 | 4.290 | 4.295 | -0.005 | 98 | 814788 | 4.00 | |
| * 3 Acenaphthene-d10 | 164 | 5.557 | 5.552 | 0.005 | 87 | 488660 | 4.00 | |
| * 4 Phenanthrene-d10 | 188 | 6.632 | 6.632 | 0.0 | 97 | 747202 | 4.00 | |
| * 5 Chrysene-d12 | 240 | 8.611 | 8.579 | 0.032 | 93 | 645765 | 4.00 | |
| * 6 Perylene-d12 | 264 | 9.938 | 9.890 | 0.048 | 89 | 485483 | 4.00 | |
| $ 7 2-Fluorophenol | 112 | 2.562 | 2.546 | 0.016 | 93 | 772046 | 12.5 | |
| $ 8 Phenol-d5 | 99 | 3.129 | 3.118 | 0.011 | 92 | 1022597 | 13.3 | |
| $ 9 Nitrobenzene-d5 | 82 | 3.776 | 3.781 | -0.005 | 94 | 530667 | 6.49 | |
| $ 10 2-Fluorobiphenyl (Surr) | 172 | 5.049 | 5.049 | 0.0 | 100 | 1103168 | 6.08 | |
| $ 11 2,4,6-Tribromophenol | 330 | 6.124 | 6.124 | 0.0 | 85 | 149804 | 10.4 | |
| $ 12 Terphenyl-d14 | 244 | 7.777 | 7.766 | 0.011 | 99 | 1218789 | 8.56 | |
| 24 1,4-Dioxane | 88 | | 1.621 | | | | | |
| 25 N-Nitrosodimethylamine | 74 | | 1.781 | | | | | |
| 40 Benzaldehyde | 77 | | 3.118 | | | | | |
| 41 Phenol | 94 | | 3.129 | | | | | |
| 44 Bis(2-chloroethyl)ether | 93 | | 3.204 | | | | | |
| 46 2-Chlorophenol | 128 | | 3.263 | | | | | |
| 51 2-Methylphenol | 108 | | 3.541 | | | | | |
| 52 2,2'-oxybis[1-chloropropane] | 45 | | 3.562 | | | | | |
| 191 3 & 4 Methylphenol | 108 | | 3.642 | | | | | |
| 56 N-Nitrosodi-n-propylamine | 70 | | 3.658 | | | | | |
| 57 Acetophenone | 105 | | 3.669 | | | | | |
| 60 Hexachloroethane | 117 | | 3.760 | | | | | |
| 61 Nitrobenzene | 77 | | 3.792 | | | | | |
| 63 Isophorone | 82 | | 3.953 | | | | | |
| 64 2,4-Dimethylphenol | 107 | | 4.017 | | | | | |
| 65 2-Nitrophenol | 139 | | 4.017 | | | | | |
| 68 Bis(2-chloroethoxy)methane | 93 | | 4.081 | | | | | |
| 71 2,4-Dichlorophenol | 162 | | 4.183 | | | | | |
| 73 Naphthalene | 128 | | 4.311 | | | | | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ng/ul | Flags |
|---|---|---|---|---|---|---|---|---|
| 74 4-Chloroaniline | 127 | | 4.327 | | | | | |
| 77 Hexachlorobutadiene | 225 | | 4.386 | | | | | |
| 83 Caprolactam | 113 | | 4.573 | | | | | |
| 84 4-Chloro-3-methylphenol | 107 | | 4.659 | | | | | |
| 85 2-Methylnaphthalene | 142 | | 4.798 | | | | | |
| 88 Hexachlorocyclopentadiene | 237 | | 4.910 | | | | | |
| 90 2,4,6-Trichlorophenol | 196 | | 4.990 | | | | | |
| 91 2,4,5-Trichlorophenol | 196 | | 5.022 | | | | | |
| 95 1,1'-Biphenyl | 154 | | 5.124 | | | | | |
| 98 2-Chloronaphthalene | 162 | | 5.151 | | | | | |
| 100 2-Nitroaniline | 65 | | 5.210 | | | | | |
| 103 Dimethyl phthalate | 163 | | 5.322 | | | | | |
| 105 2,6-Dinitrotoluene | 165 | | 5.375 | | | | | |
| 107 Acenaphthylene | 152 | | 5.456 | | | | | |
| 108 3-Nitroaniline | 138 | | 5.504 | | | | | |
| 109 2,4-Dinitrophenol | 184 | | 5.573 | | | | | |
| 110 Acenaphthene | 153 | | 5.579 | | | | | |
| 111 4-Nitrophenol | 109 | | 5.605 | | | | | |
| 112 2,4-Dinitrotoluene | 165 | | 5.669 | | | | | |
| 114 Dibenzofuran | 168 | | 5.702 | | | | | |
| 119 Diethyl phthalate | 149 | | 5.825 | | | | | |
| 121 4-Chlorophenyl phenyl ether | 204 | | 5.932 | | | | | |
| 123 4-Nitroaniline | 138 | | 5.948 | | | | | |
| 124 Fluorene | 166 | | 5.948 | | | | | |
| 126 4,6-Dinitro-2-methylphenol | 198 | | 5.964 | | | | | |
| 130 N-Nitrosodiphenylamine | 169 | | 6.012 | | | | | |
| 137 4-Bromophenyl phenyl ether | 248 | | 6.290 | | | | | |
| 139 Hexachlorobenzene | 284 | | 6.354 | | | | | |
| 140 Atrazine | 200 | | 6.376 | | | | | |
| 141 Pentachlorophenol | 266 | | 6.488 | | | | | |
| 146 Phenanthrene | 178 | 6.648 | 6.648 | 0.0 | 91 | 25096 | 0.1159 | |
| 147 Anthracene | 178 | | 6.686 | | | | | |
| 149 Carbazole | 167 | | 6.787 | | | | | |
| 151 Di-n-butyl phthalate | 149 | 6.996 | 7.001 | -0.005 | 95 | 30216 | 0.1162 | |
| 157 Fluoranthene | 202 | 7.520 | 7.515 | 0.005 | 92 | 36215 | 0.1631 | |
| 160 Pyrene | 202 | 7.691 | 7.686 | 0.005 | 95 | 58524 | 0.2401 | |
| 166 Butyl benzyl phthalate | 149 | | 8.103 | | | | | |
| 171 Bis(2-ethylhexyl) phthalate | 149 | 8.536 | 8.515 | 0.021 | 93 | 56999 | 0.3442 | |
| 173 3,3'-Dichlorobenzidine | 252 | | 8.536 | | | | | |
| 175 Benzo[a]anthracene | 228 | 8.601 | 8.579 | 0.022 | 39 | 27851 | 0.1307 | |
| 176 Chrysene | 228 | 8.633 | 8.611 | 0.022 | 66 | 26833 | 0.1378 | |
| 178 Di-n-octyl phthalate | 149 | | 9.018 | | | | | |
| 180 Benzo[b]fluoranthene | 252 | 9.531 | 9.499 | 0.032 | 89 | 37469 | 0.1869 | M |
| 181 Benzo[k]fluoranthene | 252 | 9.547 | 9.526 | 0.021 | 43 | 18047 | 0.0890 | M |
| 182 Benzo[a]pyrene | 252 | 9.874 | 9.847 | 0.027 | 65 | 35414 | 0.1922 | |
| 186 Indeno[1,2,3-cd]pyrene | 276 | 11.323 | 11.307 | 0.016 | 84 | 24625 | 0.1275 | |
| 187 Dibenz(a,h)anthracene | 278 | | 11.312 | | | | | |
| 188 Benzo[g,h,i]perylene | 276 | 11.767 | 11.735 | 0.032 | 76 | 29136 | 0.1831 | |

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13043-1 Analy Batch No.: 50462

SDG No.:

Instrument ID: A4HP7 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2012 11:20 Calibration End Date: 07/11/2012 13:51 Calibration ID: 10087

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Di-n-butyl phthalate | 1.4260 | 1.2513<br>1.4546 | 1.2967<br>1.5232 | 1.3027<br>1.5561 | 1.3219 | Ave | | 1.3916 | | | 0.0100 | 8.2 | | 20.0 | | | |
| Fluoranthene | 1.2618<br>1.2036 | 1.0692<br>1.2519 | 1.0914<br>1.2835 | 1.0970<br>1.2990 | 1.1424 | Ave | | 1.1889 | | | 0.6000 | 7.6 | | 20.0 | | | |
| Benzidine | 0.8967 | 0.5991<br>0.9428 | 0.7101<br>0.9467 | 0.7877<br>0.8895 | 0.8398 | Ave | | 0.8265 | | | | 15.0 | | 20.0 | | | |
| Pyrene | 1.6234<br>1.5151 | 1.3757<br>1.5985 | 1.4248<br>1.5824 | 1.4359<br>1.5893 | 1.4430 | Ave | | 1.5098 | | | 0.6000 | 6.1 | | 20.0 | | | |
| Butyl benzyl phthalate | 0.7372 | 0.6604<br>0.7629 | 0.6972<br>0.7800 | 0.6791<br>0.7929 | 0.6888 | Ave | | 0.7248 | | | 0.0100 | 6.9 | | 20.0 | | | |
| 3,3'-Dimethoxybenzidine | 0.3657 | 0.2651<br>0.3719 | 0.3041<br>0.3966 | 0.3319<br>0.3815 | 0.3321 | Ave | | 0.3436 | | | | 13.0 | | 20.0 | | | |
| Bis(2-ethylhexyl) phthalate | 1.0437 | 0.9151<br>1.0853 | 0.9744<br>1.1236 | 0.9521<br>1.1225 | 0.9886 | Ave | | 1.0257 | | | 0.0100 | 7.8 | | 20.0 | | | |
| 4,4'-Methylene bis(2-chloroaniline) | 0.2421 | 0.2136<br>0.2557 | 0.2141<br>0.2542 | 0.2276<br>0.2535 | 0.2309 | Ave | | 0.2365 | | | | 7.4 | | 20.0 | | | |
| 3,3'-Dichlorobenzidine | 0.4949 | 0.4212<br>0.5193 | 0.4528<br>0.5194 | 0.4761<br>0.5175 | 0.4662 | Ave | | 0.4834 | | | 0.0100 | 7.4 | | 20.0 | | | |
| Benzo[a]anthracene | 1.5240<br>1.3002 | 1.2124<br>1.3706 | 1.2613<br>1.3909 | 1.2513<br>1.3514 | 1.2177 | Ave | | 1.3200 | | | 0.8000 | 7.6 | | 20.0 | | | |
| Chrysene | 1.3481<br>1.1927 | 1.0893<br>1.2523 | 1.1720<br>1.2548 | 1.1316<br>1.2695 | 1.1429 | Ave | | 1.2059 | | | 0.7000 | 6.8 | | 20.0 | | | |
| Di-n-octyl phthalate | 2.4641 | 1.9599<br>2.4614 | 2.0026<br>2.5046 | 2.1302<br>2.5585 | 2.1712 | Ave | | 2.2816 | | | 0.0100 | 11.0 | | 20.0 | | | |
| Benzo[b]fluoranthene | 1.8902<br>1.7336 | 1.5916<br>1.8030 | 1.5360<br>1.6714 | 1.4475<br>1.7032 | 1.4914 | Ave | | 1.6520 | | | 0.7000 | 8.9 | | 20.0 | | | |
| Benzo[k]fluoranthene | 1.9194<br>1.6731 | 1.5271<br>1.6156 | 1.5589<br>1.7461 | 1.6421<br>1.7582 | 1.5905 | Ave | | 1.6701 | | | 0.7000 | 7.3 | | 20.0 | | | |
| Benzo[a]pyrene | 1.7881<br>1.5540 | 1.3265<br>1.5863 | 1.3993<br>1.5679 | 1.4289<br>1.5916 | 1.4233 | Ave | | 1.5184 | | | 0.7000 | 9.1 | | 20.0 | | | |
| Indeno[1,2,3-cd]pyrene | 1.7216<br>1.6482 | 1.4481<br>1.6636 | 1.4774<br>1.6591 | 1.5081<br>1.6792 | 1.5123 | Ave | | 1.5909 | | | 0.5000 | 6.5 | | 20.0 | | | |
| Dibenzo(a,h)anthracene | 1.4163<br>1.3976 | 1.2084<br>1.4077 | 1.2692<br>1.4108 | 1.2797<br>1.4486 | 1.2776 | Ave | | 1.3462 | | | 0.4000 | 6.4 | | 20.0 | | | |
| Benzo[g,h,i]perylene | 1.3167<br>1.3610 | 1.1949<br>1.3838 | 1.2769<br>1.3688 | 1.2434<br>1.4020 | 1.2535 | Ave | | 1.3112 | | | 0.5000 | 5.5 | | 20.0 | | | |
| 2-Fluorophenol (Surr) | 1.3276 | 1.2657<br>1.3381 | 1.2857<br>1.3421 | 1.2753<br>1.3766 | 1.2655 | Ave | | 1.3096 | | | | 3.2 | | 20.0 | | | |
| Phenol-d5 (Surr) | 1.6639 | 1.5486<br>1.6909 | 1.5495<br>1.6865 | 1.5830<br>1.7453 | 1.5895 | Ave | | 1.6322 | | | | 4.5 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

**Tetra Tech** **INTERNAL CORRESPONDENCE**

**TO:** **T. APANAVAGE** **DATE: OCTOBER 1, 2012**

**FROM:** **TERRI L. SOLOMON** **COPIES:** **DV FILE**

**SUBJECT:** **INORGANIC DATA VALIDATION – SELECT METALS**
**MARTIN STATE AIRPORT – MT SOIL BORING**
**SAMPLE DELIVERY GROUP (SDG) – 240-13043-1**

**SAMPLES:** 6/Soil/

| | | |
|---|---|---|
| MT-SS19-0-2 | MT-SS19-8-10 | MT-SS20-0-2 |
| MT-SS20-8-10 | MT-SS21-0-2 | MT-SS21-8-10 |

Overview

The sample set for Martin State Airport – MT Soil Boring, SDG 240-13043-1, consists of six (6) soil environmental samples. No field duplicate pairs were included within this SDG.

All samples were analyzed for select metals including antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium and zinc. The samples were collected by Tetra Tech on July 9, 2012 and analyzed by TestAmerica. Metals analyses were conducted using SW-846 method 6010C. Mercury analyses were conducted using SW-846 method 7471B.

The findings offered in this report are based upon a general review of all available data. The data review was based on data completeness, holding times, initial and continuing calibration verification results, laboratory method / preparation blank results, ICP interference results, laboratory control sample recoveries, matrix spike/matrix spike duplicate recoveries, ICP serial dilution results, detection limits and analyte quantitation.

Areas of concern with respect to data quality are listed below.

Major Problems

None.

Minor Problems

- The contract required detection limit (CRDL) percent recoveries for silver and thallium were < 90% quality control limit affecting all samples. The nondetected results reported for silver and thallium were qualified as biased low, "UL".

- The following contaminants were detected in the laboratory method/preparation blanks at the following maximum concentrations:

| Analyte | Maximum Concentration | Action Level |
|---|---|---|
| Beryllium | 0.963 ug/L | 0.482 mg/kg |
| Molybdenum | 2.94 ug/L | 1.47 mg/kg |
| Vanadium | 1.48 ug/L | 0.74 mg/kg |
| Zinc | 6.29 ug/L | 3.14 mg/kg |
| Antimony[(1)] | 0.497 mg/kg | 2.48 mg/kg |
| Barium[(1)] | 0.315 mg/kg | 1.58 mg/kg |

[(1)] Maximum concentration present in a preparation blank.

An action level of 5X the maximum contaminant level has been used to evaluate sample data for blank contamination. Sample aliquot, percent solids and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. The positive results less than the blank action level reported for antimony and molybdenum were qualified "B" as a result of laboratory blank contamination.

- The matrix spike and/or matrix spike duplicate percent recoveries for antimony, chromium, selenium, silver and vanadium were < 75% quality control limit. The positive and nondetected results reported for the aforementioned analytes were qualified as biased low, "L" and "UL", respectively.

- The ICP serial dilution percent difference (result > 50X MDL) for nickel was > 10% quality control limit. The positive results reported for nickel were qualified as estimated, "J".

- Positive results reported below the reporting limit (RL) but above the method detection limit (MDL) were qualified as estimated, "J".

Notes

Nondetected results are reported to the method detection limits.

The CRDL percent recoveries for arsenic and cobalt were < 90% quality control limit. No validation actions were warranted as all sample results were > 2X CRDL.

The CRDL percent recovery for zinc was > 110% quality control limit. No validation actions were warranted as all sample results were > 2X CRDL.

Executive Summary

**Laboratory Performance:** The CRDL percent recoveries for silver and thallium were < 90% quality control limit. Several contaminants were present in the laboratory method / preparation blanks.

**Other Factors Affecting Data Quality:** Positive results reported below the RL but above the MDL were qualified as estimated. The matrix spike / matrix spike duplicate percent recoveries for several analytes were < 75% quality control limit. The ICP serial dilution percent difference for nickel was > 10% quality control limit.

The data for these analyses were reviewed with reference to Region III modifications to the "National Functional Guidelines for Inorganic Data Validation", April 1993.

The text of this report has been formulated to address only those problem areas affecting data quality.

Tetra Tech
Terri L. Solomon
Environmental Scientist

Tetra Tech
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

# APPENDIX A
# QUALIFIED ANALYTICAL RESULTS

**Qualifier Codes:**

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = ICP PDS Recovery Noncompliance; MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = RPD between columns/detectors >40% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviations is greater than sample activity
Z1 = Tentatively Identified Compound considered presumptively present
Z2 = Tentatively Identified Compound column bleed

| PROJ_NO: 04054 | NSAMPLE | MT-SS19-0-2 | | | MT-SS19-8-10 | | | MT-SS20-0-2 | | | MT-SS20-8-10 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-13043-1 | LAB_ID | 240-13043-2 | | | 240-13043-3 | | | 240-13043-4 | | | 240-13043-5 | | |
| FRACTION: M | SAMP_DATE | 7/9/2012 | | | 7/9/2012 | | | 7/9/2012 | | | 7/9/2012 | | |
| MEDIA: SOIL | QC_TYPE | NM | | | NM | | | NM | | | NM | | |
| | UNITS | MG/KG | | | MG/KG | | | MG/KG | | | MG/KG | | |
| | PCT_SOLIDS | 83.8 | | | 85.8 | | | 85.3 | | | 82.2 | | |
| | DUP_OF | | | | | | | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| ANTIMONY | | 0.43 | UL | D | 0.46 | B | A | 0.66 | B | A | 0.67 | B | A |
| ARSENIC | | 6.2 | | | 6.4 | | | 3.9 | | | 5 | | |
| BARIUM | | 13 | J | P | 13 | J | P | 19 | J | P | 18 | J | P |
| BERYLLIUM | | 1.6 | | | 2.7 | | | 2.9 | | | 4 | | |
| CADMIUM | | 0.04 | U | | 0.036 | U | | 0.035 | U | | 0.037 | U | |
| CHROMIUM | | 24 | L | D | 23 | L | D | 20 | L | D | 24 | L | D |
| COBALT | | 7.5 | | | 14 | | | 14 | | | 13 | | |
| COPPER | | 33 | | | 25 | | | 24 | | | 38 | | |
| LEAD | | 6.7 | | | 3.8 | | | 4.4 | | | 6.3 | | |
| MERCURY | | 0.018 | U | | 0.019 | U | | 0.017 | U | | 0.019 | U | |
| MOLYBDENUM | | 0.77 | B | A | 0.41 | B | A | 0.38 | B | A | 0.58 | B | A |
| NICKEL | | 30 | J | I | 52 | J | I | 45 | J | I | 44 | J | I |
| SELENIUM | | 0.5 | UL | D | 0.46 | UL | D | 0.44 | UL | D | 0.47 | UL | D |
| SILVER | | 0.11 | UL | CD | 0.1 | UL | CD | 0.098 | UL | CD | 0.1 | UL | CD |
| THALLIUM | | 0.61 | UL | C | 0.56 | UL | C | 0.54 | UL | C | 0.57 | UL | C |
| VANADIUM | | 43 | L | D | 29 | L | D | 31 | L | D | 38 | L | D |
| ZINC | | 38 | | | 72 | | | 69 | | | 73 | | |

| PROJ_NO: 04054 | NSAMPLE | MT-SS21-0-2 | | | MT-SS21-8-10 | | |
|---|---|---|---|---|---|---|---|
| SDG: 240-13043-1 | LAB_ID | 240-13043-6 | | | 240-13043-7 | | |
| FRACTION: M | SAMP_DATE | 7/9/2012 | | | 7/9/2012 | | |
| MEDIA: SOIL | QC_TYPE | NM | | | NM | | |
| | UNITS | MG/KG | | | MG/KG | | |
| | PCT_SOLIDS | 84.8 | | | 85.0 | | |
| | DUP_OF | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| ANTIMONY | | 0.36 | UL | D | 0.47 | B | A |
| ARSENIC | | 4.4 | | | 4.7 | | |
| BARIUM | | 16 | J | P | 12 | J | P |
| BERYLLIUM | | 3.8 | | | 5.8 | | |
| CADMIUM | | 0.033 | U | | 0.038 | U | |
| CHROMIUM | | 24 | L | D | 21 | L | D |
| COBALT | | 10 | | | 14 | | |
| COPPER | | 15 | | | 19 | | |
| LEAD | | 4.1 | | | 5.1 | | |
| MERCURY | | 0.019 | U | | 0.016 | U | |
| MOLYBDENUM | | 0.31 | B | A | 0.34 | B | A |
| NICKEL | | 34 | J | I | 49 | J | I |
| SELENIUM | | 0.42 | UL | D | 0.48 | UL | D |
| SILVER | | 0.093 | UL | CD | 0.11 | UL | CD |
| THALLIUM | | 0.51 | UL | C | 0.58 | UL | C |
| VANADIUM | | 36 | L | D | 36 | L | D |
| ZINC | | 49 | | | 78 | | |

# APPENDIX B
# RESULTS AS REPORTED BY THE LABORATORY

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MT-SS19-0-2 Lab Sample ID: 240-13043-2

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG ID.:

Matrix: Solid Date Sampled: 07/09/2012 11:40

Reporting Basis: DRY Date Received: 07/10/2012 08:30

% Solids: 83.8

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 2.2 | 2.2 | 0.43 | mg/Kg | U | | 1 | 6010C |
| 7440-38-2 | Arsenic | 6.2 | 1.7 | 0.33 | mg/Kg | | | 1 | 6010C |
| 7440-39-3 | Barium | 13 | 22 | 0.079 | mg/Kg | J | B | 1 | 6010C |
| 7440-41-7 | Beryllium | 1.6 | 0.56 | 0.048 | mg/Kg | | B | 1 | 6010C |
| 7440-43-9 | Cadmium | 0.56 | 0.56 | 0.040 | mg/Kg | U | | 1 | 6010C |
| 7440-47-3 | Chromium | 24 | 1.1 | 0.22 | mg/Kg | | | 1 | 6010C |
| 7440-48-4 | Cobalt | 7.5 | 1.1 | 0.18 | mg/Kg | | | 1 | 6010C |
| 7440-50-8 | Copper | 33 | 2.8 | 0.83 | mg/Kg | | | 1 | 6010C |
| 7439-92-1 | Lead | 6.7 | 1.1 | 0.21 | mg/Kg | | | 1 | 6010C |
| 7439-98-7 | Molybdenum | 0.77 | 4.5 | 0.30 | mg/Kg | J | | 1 | 6010C |
| 7440-02-0 | Nickel | 30 | 4.5 | 0.30 | mg/Kg | | | 1 | 6010C |
| 7782-49-2 | Selenium | 2.2 | 2.2 | 0.50 | mg/Kg | U | | 1 | 6010C |
| 7440-22-4 | Silver | 1.1 | 1.1 | 0.11 | mg/Kg | U | | 1 | 6010C |
| 7440-28-0 | Thallium | 2.2 | 2.2 | 0.61 | mg/Kg | U | | 1 | 6010C |
| 7440-62-2 | Vanadium | 43 | 1.1 | 0.13 | mg/Kg | | | 1 | 6010C |
| 7440-66-6 | Zinc | 38 | 5.6 | 1.1 | mg/Kg | | | 1 | 6010C |
| 7439-97-6 | Mercury | 0.12 | 0.12 | 0.018 | mg/Kg | U | | 1 | 7471B |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MT-SS19-8-10 Lab Sample ID: 240-13043-3

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG ID.:

Matrix: Solid Date Sampled: 07/09/2012 11:45

Reporting Basis: DRY Date Received: 07/10/2012 08:30

% Solids: 85.8

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 0.46 | 2.0 | 0.40 | mg/Kg | J | B | 1 | 6010C |
| 7440-38-2 | Arsenic | 6.4 | 1.5 | 0.30 | mg/Kg | | | 1 | 6010C |
| 7440-39-3 | Barium | 13 | 20 | 0.072 | mg/Kg | J | B | 1 | 6010C |
| 7440-41-7 | Beryllium | 2.7 | 0.51 | 0.044 | mg/Kg | | B | 1 | 6010C |
| 7440-43-9 | Cadmium | 0.51 | 0.51 | 0.036 | mg/Kg | U | | 1 | 6010C |
| 7440-47-3 | Chromium | 23 | 1.0 | 0.20 | mg/Kg | | | 1 | 6010C |
| 7440-48-4 | Cobalt | 14 | 1.0 | 0.16 | mg/Kg | | | 1 | 6010C |
| 7440-50-8 | Copper | 25 | 2.5 | 0.75 | mg/Kg | | | 1 | 6010C |
| 7439-92-1 | Lead | 3.8 | 1.0 | 0.19 | mg/Kg | | | 1 | 6010C |
| 7439-98-7 | Molybdenum | 0.41 | 4.1 | 0.27 | mg/Kg | J | | 1 | 6010C |
| 7440-02-0 | Nickel | 52 | 4.1 | 0.27 | mg/Kg | | | 1 | 6010C |
| 7782-49-2 | Selenium | 2.0 | 2.0 | 0.46 | mg/Kg | U | | 1 | 6010C |
| 7440-22-4 | Silver | 1.0 | 1.0 | 0.10 | mg/Kg | U | | 1 | 6010C |
| 7440-28-0 | Thallium | 2.0 | 2.0 | 0.56 | mg/Kg | U | | 1 | 6010C |
| 7440-62-2 | Vanadium | 29 | 1.0 | 0.12 | mg/Kg | | | 1 | 6010C |
| 7440-66-6 | Zinc | 72 | 5.1 | 1.0 | mg/Kg | | | 1 | 6010C |
| 7439-97-6 | Mercury | 0.12 | 0.12 | 0.019 | mg/Kg | U | | 1 | 7471B |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MT-SS20-0-2 Lab Sample ID: 240-13043-4

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG ID.:

Matrix: Solid Date Sampled: 07/09/2012 13:40

Reporting Basis: DRY Date Received: 07/10/2012 08:30

% Solids: 85.3

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 0.66 | 2.0 | 0.38 | mg/Kg | J | B | 1 | 6010C |
| 7440-38-2 | Arsenic | 3.9 | 1.5 | 0.29 | mg/Kg | | | 1 | 6010C |
| 7440-39-3 | Barium | 19 | 20 | 0.069 | mg/Kg | J | B | 1 | 6010C |
| 7440-41-7 | Beryllium | 2.9 | 0.49 | 0.042 | mg/Kg | | B | 1 | 6010C |
| 7440-43-9 | Cadmium | 0.49 | 0.49 | 0.035 | mg/Kg | U | | 1 | 6010C |
| 7440-47-3 | Chromium | 20 | 0.98 | 0.20 | mg/Kg | | | 1 | 6010C |
| 7440-48-4 | Cobalt | 14 | 0.98 | 0.16 | mg/Kg | | | 1 | 6010C |
| 7440-50-8 | Copper | 24 | 2.4 | 0.72 | mg/Kg | | | 1 | 6010C |
| 7439-92-1 | Lead | 4.4 | 0.98 | 0.19 | mg/Kg | | | 1 | 6010C |
| 7439-98-7 | Molybdenum | 0.38 | 3.9 | 0.26 | mg/Kg | J | | 1 | 6010C |
| 7440-02-0 | Nickel | 45 | 3.9 | 0.26 | mg/Kg | | | 1 | 6010C |
| 7782-49-2 | Selenium | 2.0 | 2.0 | 0.44 | mg/Kg | U | | 1 | 6010C |
| 7440-22-4 | Silver | 0.98 | 0.98 | 0.098 | mg/Kg | U | | 1 | 6010C |
| 7440-28-0 | Thallium | 2.0 | 2.0 | 0.54 | mg/Kg | U | | 1 | 6010C |
| 7440-62-2 | Vanadium | 31 | 0.98 | 0.12 | mg/Kg | | | 1 | 6010C |
| 7440-66-6 | Zinc | 69 | 4.9 | 0.98 | mg/Kg | | | 1 | 6010C |
| 7439-97-6 | Mercury | 0.11 | 0.11 | 0.017 | mg/Kg | U | | 1 | 7471B |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MT-SS20-8-10 Lab Sample ID: 240-13043-5

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG ID.:

Matrix: Solid Date Sampled: 07/09/2012 13:45

Reporting Basis: DRY Date Received: 07/10/2012 08:30

% Solids: 82.2

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 0.67 | 2.1 | 0.41 | mg/Kg | J | B | 1 | 6010C |
| 7440-38-2 | Arsenic | 5.0 | 1.6 | 0.31 | mg/Kg | | | 1 | 6010C |
| 7440-39-3 | Barium | 18 | 21 | 0.074 | mg/Kg | J | B | 1 | 6010C |
| 7440-41-7 | Beryllium | 4.0 | 0.52 | 0.045 | mg/Kg | | B | 1 | 6010C |
| 7440-43-9 | Cadmium | 0.52 | 0.52 | 0.037 | mg/Kg | U | | 1 | 6010C |
| 7440-47-3 | Chromium | 24 | 1.0 | 0.21 | mg/Kg | | | 1 | 6010C |
| 7440-48-4 | Cobalt | 13 | 1.0 | 0.17 | mg/Kg | | | 1 | 6010C |
| 7440-50-8 | Copper | 38 | 2.6 | 0.77 | mg/Kg | | | 1 | 6010C |
| 7439-92-1 | Lead | 6.3 | 1.0 | 0.20 | mg/Kg | | | 1 | 6010C |
| 7439-98-7 | Molybdenum | 0.58 | 4.2 | 0.28 | mg/Kg | J | | 1 | 6010C |
| 7440-02-0 | Nickel | 44 | 4.2 | 0.28 | mg/Kg | | | 1 | 6010C |
| 7782-49-2 | Selenium | 2.1 | 2.1 | 0.47 | mg/Kg | U | | 1 | 6010C |
| 7440-22-4 | Silver | 1.0 | 1.0 | 0.10 | mg/Kg | U | | 1 | 6010C |
| 7440-28-0 | Thallium | 2.1 | 2.1 | 0.57 | mg/Kg | U | | 1 | 6010C |
| 7440-62-2 | Vanadium | 38 | 1.0 | 0.12 | mg/Kg | | | 1 | 6010C |
| 7440-66-6 | Zinc | 73 | 5.2 | 1.0 | mg/Kg | | | 1 | 6010C |
| 7439-97-6 | Mercury | 0.13 | 0.13 | 0.019 | mg/Kg | U | | 1 | 7471B |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MT-SS21-0-2 Lab Sample ID: 240-13043-6

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG ID.:

Matrix: Solid Date Sampled: 07/09/2012 14:30

Reporting Basis: DRY Date Received: 07/10/2012 08:30

% Solids: 84.8

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 1.9 | 1.9 | 0.36 | mg/Kg | U | | 1 | 6010C |
| 7440-38-2 | Arsenic | 4.4 | 1.4 | 0.28 | mg/Kg | | | 1 | 6010C |
| 7440-39-3 | Barium | 16 | 19 | 0.066 | mg/Kg | J | B | 1 | 6010C |
| 7440-41-7 | Beryllium | 3.8 | 0.46 | 0.040 | mg/Kg | | B | 1 | 6010C |
| 7440-43-9 | Cadmium | 0.46 | 0.46 | 0.033 | mg/Kg | U | | 1 | 6010C |
| 7440-47-3 | Chromium | 24 | 0.93 | 0.19 | mg/Kg | | | 1 | 6010C |
| 7440-48-4 | Cobalt | 10 | 0.93 | 0.15 | mg/Kg | | | 1 | 6010C |
| 7440-50-8 | Copper | 15 | 2.3 | 0.69 | mg/Kg | | | 1 | 6010C |
| 7439-92-1 | Lead | 4.1 | 0.93 | 0.18 | mg/Kg | | | 1 | 6010C |
| 7439-98-7 | Molybdenum | 0.31 | 3.7 | 0.25 | mg/Kg | J | | 1 | 6010C |
| 7440-02-0 | Nickel | 34 | 3.7 | 0.25 | mg/Kg | | | 1 | 6010C |
| 7782-49-2 | Selenium | 1.9 | 1.9 | 0.42 | mg/Kg | U | | 1 | 6010C |
| 7440-22-4 | Silver | 0.93 | 0.93 | 0.093 | mg/Kg | U | | 1 | 6010C |
| 7440-28-0 | Thallium | 1.9 | 1.9 | 0.51 | mg/Kg | U | | 1 | 6010C |
| 7440-62-2 | Vanadium | 36 | 0.93 | 0.11 | mg/Kg | | | 1 | 6010C |
| 7440-66-6 | Zinc | 49 | 4.6 | 0.93 | mg/Kg | | | 1 | 6010C |
| 7439-97-6 | Mercury | 0.12 | 0.12 | 0.019 | mg/Kg | U | | 1 | 7471B |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MT-SS21-8-10 Lab Sample ID: 240-13043-7

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG ID.:

Matrix: Solid Date Sampled: 07/09/2012 14:35

Reporting Basis: DRY Date Received: 07/10/2012 08:30

% Solids: 85.0

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 0.47 | 2.1 | 0.41 | mg/Kg | J | B | 1 | 6010C |
| 7440-38-2 | Arsenic | 4.7 | 1.6 | 0.32 | mg/Kg | | | 1 | 6010C |
| 7440-39-3 | Barium | 12 | 21 | 0.075 | mg/Kg | J | B | 1 | 6010C |
| 7440-41-7 | Beryllium | 5.8 | 0.53 | 0.046 | mg/Kg | | B | 1 | 6010C |
| 7440-43-9 | Cadmium | 0.53 | 0.53 | 0.038 | mg/Kg | U | | 1 | 6010C |
| 7440-47-3 | Chromium | 21 | 1.1 | 0.21 | mg/Kg | | | 1 | 6010C |
| 7440-48-4 | Cobalt | 14 | 1.1 | 0.17 | mg/Kg | | | 1 | 6010C |
| 7440-50-8 | Copper | 19 | 2.6 | 0.78 | mg/Kg | | | 1 | 6010C |
| 7439-92-1 | Lead | 5.1 | 1.1 | 0.20 | mg/Kg | | | 1 | 6010C |
| 7439-98-7 | Molybdenum | 0.34 | 4.2 | 0.29 | mg/Kg | J | | 1 | 6010C |
| 7440-02-0 | Nickel | 49 | 4.2 | 0.29 | mg/Kg | | | 1 | 6010C |
| 7782-49-2 | Selenium | 2.1 | 2.1 | 0.48 | mg/Kg | U | | 1 | 6010C |
| 7440-22-4 | Silver | 1.1 | 1.1 | 0.11 | mg/Kg | U | | 1 | 6010C |
| 7440-28-0 | Thallium | 2.1 | 2.1 | 0.58 | mg/Kg | U | | 1 | 6010C |
| 7440-62-2 | Vanadium | 36 | 1.1 | 0.13 | mg/Kg | | | 1 | 6010C |
| 7440-66-6 | Zinc | 78 | 5.3 | 1.1 | mg/Kg | | | 1 | 6010C |
| 7439-97-6 | Mercury | 0.10 | 0.10 | 0.016 | mg/Kg | U | | 1 | 7471B |

# APPENDIX C
# SUPPORT DOCUMENTATION

# CASE NARRATIVE

## Client: Tetra Tech, Inc

## Project: MSA-MT SOIL BORING

## Report Number: 240-13043-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available Any exceptions to NELAP requirements are noted in this report Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client

**RECEIPT**

The samples were received on 07/10/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 1.6 C.

The following samples were logged for TPH DRO analysis per client request: MT-SS19-0-2 (240-13043-2), MT-SS19-8-10 (240-13043-3), MT-SS20-0-2 (240-13043-4), MT-SS20-8-10 (240-13043-5), MT-SS21-0-2 (240-13043-6), and MT-SS21-8-10 (240-13043-7). This analysis was not originally requested on the chain-of-custody (COC).

**VOLATILE ORGANIC COMPOUNDS (GC-MS)**

Samples MT-SS19-0-2 (240-13043-2), MT-SS19-8-10 (240-13043-3), MT-SS20-0-2 (240-13043-4), MT-SS20-8-10 (240-13043-5), MT-SS21-0-2 (240-13043-6) and MT-SS21-8-10 (240-13043-7) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were prepared on 07/10/2012 and analyzed on 07/12/2012.

Acetone was detected in method blank MB 240-50546/7 at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Methylene Chloride and Naphthalene were detected in method blank MB 240-50546/7 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

The laboratory control sample (LCS) for batch 50546 exceeded control limits for the following analyte: Acetone. This compound has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Insufficient sample volume was available to meet method-mandated requirements for matrix spike/matrix spike duplicate (MS/MSD) analyses for batch 50546.

No other difficulties were encountered during the VOCs analyses. All other quality control parameters were within the acceptance limits.

**VOLATILE ORGANIC COMPOUNDS (GC-MS)**

Sample TB-070912 (240-13043-1) was analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 07/13/2012.

1,2,3-Trichlorobenzene, Naphthalene and tert-Butyl alcohol were detected in method blank MB 240-50786/5 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

2-Chloroethyl vinyl ether and tert-Butyl alcohol failed the recovery criteria low for the MS/MSD of sample 240-13086-8 in batch 240-50786.

No other difficulties were encountered during the VOCs analysis. All other quality control parameters were within the acceptance limits.

**SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)**

Samples MT-SS19-0-2 (240-13043-2), MT-SS19-8-10 (240-13043-3), MT-SS20-0-2 (240-13043-4), MT-SS20-8-10 (240-13043-5), MT-SS21-0-2 (240-13043-6) and MT-SS21-8-10 (240-13043-7) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 07/17/2012 and 07/18/2012 and analyzed on 07/19/2012 and 07/20/2012.

Bis(2-ethylhexyl) phthalate was detected in method blank MB 240-51193/23-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

The continuing calibration verification (CCV) for 1,4-dioxane, associated with batch 51296 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No other difficulties were encountered during the SVOCs analyses. All other quality control parameters were within the acceptance limits.

**GASOLINE RANGE ORGANICS (GRO)**

Samples MT-SS19-0-2 (240-13043-2), MT-SS19-8-10 (240-13043-3), MT-SS20-0-2 (240-13043-4), MT-SS20-8-10 (240-13043-5), MT-SS21-0-2 (240-13043-6) and MT-SS21-8-10 (240-13043-7) were analyzed for gasoline range organics (GRO) in accordance with EPA-SW-846 Method 8015C - GRO. The samples were analyzed on 07/19/2012.

No difficulties were encountered during the GRO analyses. All quality control parameters were within the acceptance limits.

**DIESEL RANGE ORGANICS (DRO)**

Samples MT-SS19-0-2 (240-13043-2), MT-SS19-8-10 (240-13043-3), MT-SS20-0-2 (240-13043-4), MT-SS20-8-10 (240-13043-5), MT-SS21-0-2 (240-13043-6) and MT-SS21-8-10 (240-13043-7) were analyzed for diesel range organics (DRO)in accordance with EPA SW-846 Method 8015C - DRO. The samples were prepared on 07/17/2012 and analyzed on 07/20/2012.

Total Petroleum Hydrocarbons (C10-C32) was detected in method blank MB 240-51014/22-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

No other difficulties were encountered during the DRO analyses. All other quality control parameters were within the acceptance limits.

**POLYCHLORINATED BIPHENYLS (PCBS)**

Samples MT-SS19-0-2 (240-13043-2), MT-SS19-8-10 (240-13043-3), MT-SS20-0-2 (240-13043-4), MT-SS20-8-10 (240-13043-5), MT-SS21-0-2 (240-13043-6) and MT-SS21-8-10 (240-13043-7) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082A. The samples were prepared on 07/17/2012 and analyzed on 07/19/2012.

The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: MT-SS19-0-2 (240-13043-2) and MT-SS21-8-10 (240-13043-7). Lot # S65830.

No other difficulties were encountered during the PCBs analyses. All quality control parameters were within the acceptance limits.

**TOTAL METALS (ICP)**

Samples MT-SS19-0-2 (240-13043-2), MT-SS19-8-10 (240-13043-3), MT-SS20-0-2 (240-13043-4), MT-SS20-8-10 (240-13043-5), MT-SS21-0-2 (240-13043-6) and MT-SS21-8-10 (240-13043-7) were analyzed for total metals (ICP)in accordance with EPA SW-846 Method 6010C. The samples were prepared on 07/12/2012 and analyzed on 07/16/2012.

Antimony, Barium and Beryllium were detected in method blank MB 240-50598/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

Several analytes failed the recovery criteria low for the MS of sample MT-SS19-0-2 (240-13043-2) in batch 240-51051. Antimony, Chromium, Selenium and Vanadium failed the recovery criteria low for the MSD of sample MT-SS19-0-2 (240-13043-2) in batch 240-51051.

A matrix spike and matrix spike duplicate were performed on sample MT-SS19-0-2 (240-13043-2) instead of a matrix spike and laboratory duplicate.

No other difficulties were encountered during the metals analyses. All other quality control parameters were within the acceptance limits.

**MERCURY**

Samples MT-SS19-0-2 (240-13043-2), MT-SS19-8-10 (240-13043-3), MT-SS20-0-2 (240-13043-4), MT-SS20-8-10 (240-13043-5), MT-SS21-0-2 (240-13043-6) and MT-SS21-8-10 (240-13043-7) were analyzed for mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared on 07/12/2012 and analyzed on 07/13/2012.

No difficulties were encountered during the mercury analyses. All quality control parameters were within the acceptance limits.

**PERCENT SOLIDS**

Samples MT-SS19-0-2 (240-13043-2), MT-SS19-8-10 (240-13043-3), MT-SS20-0-2 (240-13043-4), MT-SS20-8-10 (240-13043-5), MT-SS21-0-2 (240-13043-6) and MT-SS21-8-10 (240-13043-7) were analyzed for percent solids in accordance with EPA Method 160.3 MOD. The samples were analyzed on 07/11/2012.

No difficulties were encountered during the % solids analyses. All quality control parameters were within the acceptance limits.

# Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

| Client Contact | Client Project Manager: | Site Contact: | Lab Contact: | COC No: |
|---|---|---|---|---|
| Company Name: Tetra Tech Inc. | Tony Aparnavage | Stu Cameron | Pat O'Meara | 1 of 1 COCs |
| Address: 20251 Century Blvd. | Telephone: 301 528-3021 | Telephone: 703 342-9389 | Telephone: 330 457-9396 | |
| City/State/Zip: Germantown, MD 20874 | Email: | | | |
| Phone: 301 528-3021 | | TAT if different from below: ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day | Analyses | |
| Project Name: NSA-MT Soil Boring Sampling | Method of Shipment/Carrier: Fed EX | | | |
| Project Number: 112IC04054-04 | Shipping/Tracking No: | | | |
| PO# | | | | |

| Sample Identification | Sample Date | Sample Time | Matrix: Air | Aqueous | Sediment | Solid | Other | Preservation: H2SO4 | HNO3 | HCl | NaOH | ZnAc/ NaOH | Unpres | Other: Alcohol | Field Filtered | Perform MS/MSD (Y/N) | VOCs | SVOCs / PCBs | Metals | Gas | VOCs | Sample Specific Notes / Special Instructions: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TB-070912 | 7-9-12 | — | | X | | | | | | 2 | | | | | W | G | X | | | | | |
| MT-SS19-0-2 | | 1140 | | | | X | | | | | | | 4 | 3 | | | X | X | X | X | X | |
| ~~MT-SB19-8-10~~ MT-SS19-8-10 | | 1145 | | | | X | | | | | | | 4 | 3 | | | X | X | X | X | X | |
| MT-SS20-0-2 | | 1340 | | | | X | | | | | | | 4 | 3 | | | X | X | X | X | X | |
| ~~MT-SB20-8-10~~ MT-SS20-8-10 | | 1345 | | | | X | | | | | | | 4 | 3 | | | X | X | X | X | X | |
| ~~MT-SB21-0-2~~ MT-SS21-0-2 | | 1430 | | | | X | | | | | | | 4 | 3 | | | X | X | X | X | X | |
| ~~MT-SB21-8-10~~ MT-SS21-8-10 | | 1435 | | | | X | | | | | | | 4 | 3 | | | X | X | X | X | X | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |

AC 11/29/12

Page 13 of 13

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return to Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

| Relinquished by: | Company: | Date/Time: | Received by: | Company: | Date/Time: |
|---|---|---|---|---|---|
| Relinquished by: | Company: | Date/Time: | Received by: | Company: | Date/Time: |
| Relinquished by: | Company: | Date/Time: | Received in Laboratory by: | Company: | Date/Time: |
| | Tetra Tech | 7-9-12 / 1515 | | TAL | 7/10/12 830 |

07/26/2012

TAL-0016 (1008)

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# HOLDTIME

**SDG** 240-13043-1

| SORT | UNITS | NSAMPLE | LAB_ID | QC_TYPE | SAMP_DATE | EXTR_DATE | ANAL_DATE | SMP_EXTR | EXTR_ANL | SMP_ANL |
|---|---|---|---|---|---|---|---|---|---|---|
| HG | MG/KG | MT-SS19-0-2 | 240-13043-2 | NM | 7/9/2012 | 7/12/2012 | 7/13/2012 | 3 | 1 | 4 |
| HG | MG/KG | MT-SS19-8-10 | 240-13043-3 | NM | 7/9/2012 | 7/12/2012 | 7/13/2012 | 3 | 1 | 4 |
| HG | MG/KG | MT-SS20-0-2 | 240-13043-4 | NM | 7/9/2012 | 7/12/2012 | 7/13/2012 | 3 | 1 | 4 |
| HG | MG/KG | MT-SS20-8-10 | 240-13043-5 | NM | 7/9/2012 | 7/12/2012 | 7/13/2012 | 3 | 1 | 4 |
| HG | MG/KG | MT-SS21-0-2 | 240-13043-6 | NM | 7/9/2012 | 7/12/2012 | 7/13/2012 | 3 | 1 | 4 |
| HG | MG/KG | MT-SS21-8-10 | 240-13043-7 | NM | 7/9/2012 | 7/12/2012 | 7/13/2012 | 3 | 1 | 4 |
| M | MG/KG | MT-SS21-0-2 | 240-13043-6 | NM | 7/9/2012 | 7/12/2012 | 7/16/2012 | 3 | 4 | 7 |
| M | MG/KG | MT-SS19-0-2 | 240-13043-2 | NM | 7/9/2012 | 7/12/2012 | 7/16/2012 | 3 | 4 | 7 |
| M | MG/KG | MT-SS19-8-10 | 240-13043-3 | NM | 7/9/2012 | 7/12/2012 | 7/16/2012 | 3 | 4 | 7 |
| M | MG/KG | MT-SS20-8-10 | 240-13043-5 | NM | 7/9/2012 | 7/12/2012 | 7/16/2012 | 3 | 4 | 7 |
| M | MG/KG | MT-SS21-8-10 | 240-13043-7 | NM | 7/9/2012 | 7/12/2012 | 7/16/2012 | 3 | 4 | 7 |
| M | MG/KG | MT-SS20-0-2 | 240-13043-4 | NM | 7/9/2012 | 7/12/2012 | 7/16/2012 | 3 | 4 | 7 |
| OS | UG/KG | MT-SS19-0-2 | 240-13043-2 | NM | 7/9/2012 | 7/17/2012 | 7/19/2012 | 8 | 2 | 10 |
| OS | UG/KG | MT-SS21-8-10 | 240-13043-7 | NM | 7/9/2012 | 7/18/2012 | 7/20/2012 | 9 | 2 | 11 |
| OS | UG/KG | MT-SS21-0-2 | 240-13043-6 | NM | 7/9/2012 | 7/18/2012 | 7/20/2012 | 9 | 2 | 11 |

# METHOD SUMMARY

Client: Tetra Tech, Inc

Job Number: 240-13043-1

| Description | Lab Location | Method | Preparation Method |
|---|---|---|---|
| **Matrix: Solid** | | | |
| Volatile Organic Compounds (GC/MS) | TAL NC | SW846 8260B | |
| Closed System Purge and Trap | TAL NC | | SW846 5035 |
| Semivolatile Organic Compounds (GC/MS) | TAL NC | SW846 8270D | |
| Soxhlet Extraction | TAL NC | | SW846 3540C |
| Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics) | TAL NC | SW846 8015C | |
| Purge and Trap | TAL NC | | SW846 5030B |
| Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics) | TAL NC | SW846 8015C | |
| Soxhlet Extraction | TAL NC | | SW846 3540C |
| Polychlorinated Biphenyls (PCBs) by Gas Chromatography | TAL NC | SW846 8082A | |
| Soxhlet Extraction | TAL NC | | SW846 3540C |
| Metals (ICP) | TAL NC | SW846 6010C | |
| Preparation, Metals | TAL NC | | SW846 3050B |
| Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique) | TAL NC | SW846 7471B | |
| Preparation, Mercury | TAL NC | | SW846 7471B |
| Percent Moisture | TAL NC | EPA Moisture | |
| **Matrix: Water** | | | |
| Volatile Organic Compounds (GC/MS) | TAL NC | SW846 8260B | |
| Purge and Trap | TAL NC | | SW846 5030B |

**Lab References:**

TAL NC = TestAmerica Canton

**Method References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

COVER PAGE
METALS

Lab Name: TestAmerica Canton Job Number: 240-13043-1

SDG No.:

Project: MSA-MT SOIL BORING

| Client Sample ID | Lab Sample ID |
|---|---|
| MT-SS19-0-2 | 240-13043-2 |
| MT-SS19-8-10 | 240-13043-3 |
| MT-SS20-0-2 | 240-13043-4 |
| MT-SS20-8-10 | 240-13043-5 |
| MT-SS21-0-2 | 240-13043-6 |
| MT-SS21-8-10 | 240-13043-7 |

Comments:

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

ICV Source: MTTRICV_00014 Concentration Units: ug/L

CCV Source: MTTRCCV_00028

| Analyte | ICV 240-51051/4 07/16/2012 11:10 | | | | CCV 240-51051/50 07/16/2012 15:39 | | | | CCV 240-51051/62 07/16/2012 16:47 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Antimony** | 250 | | 250 | 100 | 467 | | 500 | 93 | 465 | | 500 | 93 |
| **Arsenic** | 245 | | 250 | 98 | 475 | | 500 | 95 | 470 | | 500 | 94 |
| **Barium** | 1020 | | 1000 | 102 | 1870 | | 2000 | 93 | 1860 | | 2000 | 93 |
| **Beryllium** | 1040 | | 1000 | 104 | 1990 | | 2000 | 100 | 1980 | | 2000 | 99 |
| **Cadmium** | 253 | | 250 | 101 | 484 | | 500 | 97 | 484 | | 500 | 97 |
| **Chromium** | 1020 | | 1000 | 102 | 1970 | | 2000 | 98 | 1950 | | 2000 | 98 |
| **Cobalt** | 1020 | | 1000 | 102 | 1950 | | 2000 | 98 | 1940 | | 2000 | 97 |
| **Copper** | 1010 | | 1000 | 101 | 1990 | | 2000 | 99 | 1990 | | 2000 | 100 |
| **Lead** | 247 | | 250 | 99 | 477 | | 500 | 95 | 472 | | 500 | 94 |
| **Molybdenum** | 997 | | 1000 | 100 | 2010 | | 2000 | 100 | 2020 | | 2000 | 101 |
| **Nickel** | 1020 | | 1000 | 102 | 1960 | | 2000 | 98 | 2040 | | 2000 | 102 |
| **Selenium** | 247 | | 250 | 99 | 477 | | 500 | 95 | 472 | | 500 | 94 |
| **Silver** | 494 | | 500 | 99 | 1000 | | 1000 | 100 | 1020 | | 1000 | 102 |
| **Thallium** | 498 | | 500 | 100 | 960 | | 1000 | 96 | 954 | | 1000 | 95 |
| **Vanadium** | 1000 | | 1000 | 100 | 1890 | | 2000 | 94 | 1830 | | 2000 | 92 |
| **Zinc** | 1040 | | 1000 | 104 | 1990 | | 2000 | 100 | 2010 | | 2000 | 100 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

ICV Source: MTTRICV_00014 Concentration Units: ug/L

CCV Source: MTTRCCV_00028

| Analyte | CCV 240-51051/74 07/16/2012 17:54 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Antimony** | 458 | | 500 | 92 | | | | | | | | |
| **Arsenic** | 470 | | 500 | 94 | | | | | | | | |
| **Barium** | 1820 | | 2000 | 91 | | | | | | | | |
| **Beryllium** | 1970 | | 2000 | 99 | | | | | | | | |
| **Cadmium** | 485 | | 500 | 97 | | | | | | | | |
| **Chromium** | 1940 | | 2000 | 97 | | | | | | | | |
| **Cobalt** | 1940 | | 2000 | 97 | | | | | | | | |
| **Copper** | 1970 | | 2000 | 98 | | | | | | | | |
| **Lead** | 471 | | 500 | 94 | | | | | | | | |
| **Molybdenum** | 2030 | | 2000 | 101 | | | | | | | | |
| **Nickel** | 2100 | | 2000 | 105 | | | | | | | | |
| **Selenium** | 472 | | 500 | 94 | | | | | | | | |
| **Silver** | 1020 | | 1000 | 102 | | | | | | | | |
| **Thallium** | 942 | | 1000 | 94 | | | | | | | | |
| **Vanadium** | 1790 | | 2000 | 90 | | | | | | | | |
| **Zinc** | 2010 | | 2000 | 101 | | | | | | | | |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

ICV Source: MTHGICVW_00340 Concentration Units: ug/L

CCV Source: MTHGCALW_00222

| Analyte | ICV 240-50907/7-A 07/13/2012 12:08 | | | | CCV 240-50907/11-A 07/13/2012 13:12 | | | | CCV 240-50907/11-A 07/13/2012 13:36 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Mercury** | 2.41 | | 2.50 | 97 | 5.22 | | 5.00 | 104 | 5.36 | | 5.00 | 107 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

ICV Source: MTHGICVW_00340 Concentration Units: ug/L

CCV Source: MTHGCALW_00222

| Analyte | CCV 240-50907/11-A 07/13/2012 14:00 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Mercury** | 5.34 | | 5.00 | 107 | | | | | | | | |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Method: 6010C Instrument ID: I5

Lab Sample ID: CRI 240-51051/7 Concentration Units: ug/L

CRQL Check Standard Source: MTTRCRIC_00007

| Analyte | CRQL Check Standard | | | | |
|---|---|---|---|---|---|
| | True | Found | Qualifiers | %R(1) | Limits |
| Antimony | 20.0 | 18.9 | J | 95 | 70-130 |
| Arsenic | 15.0 | 11.9 | J | 79 | 70-130 |
| Barium | 200 | 198 | J | 99 | 70-130 |
| Beryllium | 5.00 | 5.03 | | 101 | 70-130 |
| Cadmium | 5.00 | 4.97 | J | 99 | 70-130 |
| Chromium | 10.0 | 9.02 | J | 90 | 70-130 |
| Cobalt | 10.0 | 8.83 | J | 88 | 70-130 |
| Copper | 20.0 | 19.2 | J | 96 | 70-130 |
| Lead | 10.0 | 8.97 | J | 90 | 70-130 |
| Molybdenum | 40.0 | 37.5 | J | 94 | 70-130 |
| Nickel | 40.0 | 39.3 | J | 98 | 70-130 |
| Selenium | 20.0 | 20.5 | | 103 | 70-130 |
| Silver | 10.0 | 8.43 | J | 84 | 70-130 |
| Thallium | 20.0 | 14.5 | J | 72 | 70-130 |
| Vanadium | 10.0 | 10.4 | | 104 | 70-130 |
| Zinc | 50.0 | 64.0 | | 128 | 70-130 |

Lab Sample ID: CRI 240-51051/107 Concentration Units: ug/L

CRQL Check Standard Source: MTTRCRIC_00007

| Analyte | CRQL Check Standard | | | | |
|---|---|---|---|---|---|
| | True | Found | Qualifiers | %R(1) | Limits |
| Antimony | 20.0 | 20.9 | | 104 | 70-130 |
| Arsenic | 15.0 | 14.6 | J | 97 | 70-130 |
| Barium | 200 | 201 | | 100 | 70-130 |
| Beryllium | 5.00 | 5.02 | | 100 | 70-130 |
| Cadmium | 5.00 | 5.18 | | 104 | 70-130 |
| Chromium | 10.0 | 9.70 | J | 97 | 70-130 |
| Cobalt | 10.0 | 8.98 | J | 90 | 70-130 |
| Copper | 20.0 | 21.0 | J | 105 | 70-130 |
| Lead | 10.0 | 9.12 | J | 91 | 70-130 |
| Molybdenum | 40.0 | 38.5 | J | 96 | 70-130 |
| Nickel | 40.0 | 39.1 | J | 98 | 70-130 |
| Selenium | 20.0 | 20.4 | | 102 | 70-130 |
| Silver | 10.0 | 8.47 | J | 85 | 70-130 |
| Thallium | 20.0 | 17.0 | J | 85 | 70-130 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Method: 6010C Instrument ID: I5

Lab Sample ID: CRI 240-51051/107 Concentration Units: ug/L

CRQL Check Standard Source: MTTRCRIC_00007

| Analyte | CRQL Check Standard | | | | |
|---|---|---|---|---|---|
| | True | Found | Qualifiers | %R(1) | Limits |
| Vanadium | 10.0 | 11.1 | | 111 | 70-130 |
| Zinc | 50.0 | 60.1 | | 120 | 70-130 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Method: 7471B Instrument ID: H4

Lab Sample ID: CRA 240-50907/9-B Concentration Units: ug/L

CRQL Check Standard Source: MTHGCALW_00222

| Analyte | CRQL Check Standard | | | | |
|---|---|---|---|---|---|
| | True | Found | Qualifiers | %R(1) | Limits |
| Mercury | 0.200 | 0.169 | J | 84 | 50-150 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Concentration Units: ug/L

| Analyte | RL | ICBIS 240-51051/5 07/16/2012 11:16 | | CCB 240-51051/51 07/16/2012 15:44 | | CCB 240-51051/63 07/16/2012 16:52 | | CCB 240-51051/75 07/16/2012 18:00 | |
|---|---|---|---|---|---|---|---|---|---|
| | | Found | C | Found | C | Found | C | Found | C |
| **Antimony** | 20 | 20 | U | 2.75 | J | 2.38 | J | 20 | U |
| **Arsenic** | 15 | 15 | U | 15 | U | 15 | U | 15 | U |
| **Barium** | 200 | 200 | U | 200 | U | 200 | U | 200 | U |
| **Beryllium** | 5.0 | 5.0 | U | 0.655 | J | 0.835 | J | 0.963 | J |
| **Cadmium** | 5.0 | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| **Chromium** | 10 | 10 | U | 10 | U | 10 | U | 10 | U |
| **Cobalt** | 10 | 10 | U | 10 | U | 10 | U | 10 | U |
| **Copper** | 25 | 25 | U | 25 | U | 25 | U | 25 | U |
| **Lead** | 10 | 10 | U | 10 | U | 10 | U | 10 | U |
| **Molybdenum** | 40 | 1.90 | J | 2.94 | J | 2.75 | J | 2.11 | J |
| **Nickel** | 40 | 40 | U | 40 | U | 40 | U | 40 | U |
| **Selenium** | 20 | 20 | U | 20 | U | 20 | U | 20 | U |
| **Silver** | 10 | 10 | U | 10 | U | 10 | U | 10 | U |
| **Thallium** | 20 | 20 | U | 20 | U | 20 | U | 20 | U |
| **Vanadium** | 10 | 1.08 | J | 1.48 | J | 1.06 | J | 1.31 | J |
| **Zinc** | 50 | 50 | U | 50 | U | 5.90 | J | 6.29 | J |

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Concentration Units: ug/L

| Analyte | RL | ICB 240-50907/8-A 07/13/2012 12:10 | | CCB 240-50907/10-A 07/13/2012 13:14 | | CCB 240-50907/10-A 07/13/2012 13:39 | | CCB 240-50907/10-A 07/13/2012 14:02 | |
|---|---|---|---|---|---|---|---|---|---|
| | | Found | C | Found | C | Found | C | Found | C |
| **Mercury** | 0.60 | 0.60 | U | 0.60 | U | 0.60 | U | 0.60 | U |

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 240-50598/1-A

Instrument Code: I5 Batch No.: 51051

| CAS No. | Analyte | Concentration | C | Q | Method |
|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 0.497 | J | | 6010C |
| 7440-38-2 | Arsenic | 1.5 | U | | 6010C |
| 7440-39-3 | Barium | 0.315 | J | | 6010C |
| 7440-41-7 | Beryllium | 0.0478 | J | | 6010C |
| 7440-43-9 | Cadmium | 0.50 | U | | 6010C |
| 7440-47-3 | Chromium | 1.0 | U | | 6010C |
| 7440-48-4 | Cobalt | 1.0 | U | | 6010C |
| 7440-50-8 | Copper | 2.5 | U | | 6010C |
| 7439-92-1 | Lead | 1.0 | U | | 6010C |
| 7439-98-7 | Molybdenum | 4.0 | U | | 6010C |
| 7440-02-0 | Nickel | 4.0 | U | | 6010C |
| 7782-49-2 | Selenium | 2.0 | U | | 6010C |
| 7440-22-4 | Silver | 1.0 | U | | 6010C |
| 7440-28-0 | Thallium | 2.0 | U | | 6010C |
| 7440-62-2 | Vanadium | 1.0 | U | | 6010C |
| 7440-66-6 | Zinc | 5.0 | U | | 6010C |

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 240-50601/1-A

Instrument Code: H4 Batch No.: 50942

| CAS No. | Analyte | Concentration | C | Q | Method |
|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.10 | U | | 7471B |

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

SDG No.:

Lab Sample ID: ICSA 240-51051/10  Instrument ID: I5

Lab File ID: I50716B  ICS Source: MTTRICSAW_00013

Concentration Units: ug/L

| Analyte | True Solution A | Found Solution A | Percent Recovery |
|---|---|---|---|
| **Antimony** | | **2.18** | |
| **Arsenic** | | **1.34** | |
| **Barium** | | **2.11** | |
| **Beryllium** | | **0.113** | |
| **Cadmium** | | **-1.13** | |
| **Chromium** | | **3.03** | |
| **Cobalt** | | **-0.270** | |
| **Copper** | | **3.83** | |
| **Lead** | | **-2.04** | |
| **Molybdenum** | | **1.19** | |
| **Nickel** | | **3.30** | |
| **Selenium** | | **4.17** | |
| **Silver** | | **-0.0197** | |
| **Thallium** | | **5.20** | |
| **Vanadium** | | **-0.0500** | |
| **Zinc** | | **-0.157** | |
| *Aluminum* | *500000* | *490448* | *98* |
| *Boron* | | *-5.05* | |
| *Calcium* | *500000* | *480367* | *96* |
| *Iron* | *200000* | *193609* | *97* |
| *Magnesium* | *500000* | *517394* | *103* |
| *Manganese* | | *2.22* | |
| *Potassium* | | *188* | |
| *Sodium* | | *501* | |
| *Tin* | | *1.96* | |
| *Titanium* | | *-7.15* | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Lab Sample ID: ICSAB 240-51051/11 Instrument ID: I5

Lab File ID: I50716B ICS Source: MTTRICSABW_00009

Concentration Units: ug/L

| Analyte | True Solution AB | Found Solution AB | Percent Recovery |
|---|---|---|---|
| **Antimony** | **1000** | **1009** | **101** |
| **Arsenic** | **1000** | **978** | **98** |
| **Barium** | **500** | **513** | **103** |
| **Beryllium** | **500** | **508** | **102** |
| **Cadmium** | **1000** | **951** | **95** |
| **Chromium** | **500** | **489** | **98** |
| **Cobalt** | **500** | **476** | **95** |
| **Copper** | **500** | **516** | **103** |
| **Lead** | **1000** | **944** | **94** |
| **Molybdenum** | **1000** | **983** | **98** |
| **Nickel** | **1000** | **960** | **96** |
| **Selenium** | **1000** | **966** | **97** |
| **Silver** | **1000** | **1048** | **105** |
| **Thallium** | **1000** | **969** | **97** |
| **Vanadium** | **500** | **482** | **96** |
| **Zinc** | **1000** | **1021** | **102** |
| *Aluminum* | *500000* | *489942* | *98* |
| *Boron* | *1000* | *983* | *98* |
| *Calcium* | *500000* | *480092* | *96* |
| *Iron* | *200000* | *192991* | *96* |
| *Magnesium* | *500000* | *517715* | *104* |
| *Manganese* | *500* | *493* | *99* |
| *Potassium* | *10000* | *11444* | *114* |
| *Sodium* | *10000* | *10896* | *109* |
| *Tin* | *1000* | *980* | *98* |
| *Titanium* | *1000* | *974* | *97* |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: MT-SS19-0-2 MS | Lab ID: 240-13043-2 MS

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Matrix: Solid | Concentration Units: mg/Kg

% Solids: 83.8

| Analyte | SSR | C | Sample Result (SR) | C | Spike Added (SA) | %R | Control Limit %R | Q | Method |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 24.5 | | 2.2 | U | 56.3 | 44 | 75-125 | F | 6010C |
| Arsenic | 177 | | 6.2 | | 225 | 76 | 75-125 | | 6010C |
| Barium | 204 | | 13 | J | 225 | 85 | 75-125 | | 6010C |
| Beryllium | 6.18 | | 1.6 | | 5.63 | 81 | 75-125 | | 6010C |
| Cadmium | 4.44 | | 0.56 | U | 5.63 | 79 | 75-125 | | 6010C |
| Chromium | 39.5 | | 24 | | 22.5 | 69 | 75-125 | F | 6010C |
| Cobalt | 51.9 | | 7.5 | | 56.3 | 79 | 75-125 | | 6010C |
| Copper | 59.8 | | 33 | | 28.1 | 94 | 75-125 | | 6010C |
| Lead | 50.5 | | 6.7 | | 56.3 | 78 | 75-125 | | 6010C |
| Molybdenum | 91.4 | | 0.77 | J | 113 | 80 | 75-125 | | 6010C |
| Nickel | 73.2 | | 30 | | 56.3 | 77 | 75-125 | | 6010C |
| Selenium | 164 | | 2.2 | U | 225 | 73 | 75-125 | F | 6010C |
| Silver | 4.00 | | 1.1 | U | 5.63 | 71 | 75-125 | F | 6010C |
| Thallium | 175 | | 2.2 | U | 225 | 78 | 75-125 | | 6010C |
| Vanadium | 79.2 | | 43 | | 56.3 | 65 | 75-125 | F | 6010C |
| Zinc | 82.0 | | 38 | | 56.3 | 77 | 75-125 | | 6010C |
| Mercury | 0.192 | | 0.12 | U | 0.192 | 100 | 11-192 | | 7471B |

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: MT-SS19-0-2 MSD | Lab ID: 240-13043-2 MSD

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Matrix: Solid | Concentration Units: mg/Kg

% Solids: 83.8

| Analyte | (SDR) C | Spike Added (SA) | %R | Control Limit %R | RPD | RPD Limit | Q | Method |
|---|---|---|---|---|---|---|---|---|
| Antimony | 24.8 | 56.3 | 44 | 75-125 | 1 | 20 | F | 6010C |
| Arsenic | 178 | 225 | 77 | 75-125 | 1 | 20 | | 6010C |
| Barium | 205 | 225 | 85 | 75-125 | 0 | 20 | | 6010C |
| Beryllium | 6.32 | 5.63 | 84 | 75-125 | 2 | 20 | | 6010C |
| Cadmium | 4.50 | 5.63 | 80 | 75-125 | 2 | 20 | | 6010C |
| Chromium | 40.5 | 22.5 | 73 | 75-125 | 2 | 20 | F | 6010C |
| Cobalt | 52.7 | 56.3 | 80 | 75-125 | 2 | 20 | | 6010C |
| Copper | 65.6 | 28.1 | 115 | 75-125 | 9 | 20 | | 6010C |
| Lead | 51.6 | 56.3 | 80 | 75-125 | 2 | 20 | | 6010C |
| Molybdenum | 92.7 | 113 | 82 | 75-125 | 1 | 20 | | 6010C |
| Nickel | 75.9 | 56.3 | 82 | 75-125 | 4 | 20 | | 6010C |
| Selenium | 167 | 225 | 74 | 75-125 | 2 | 20 | F | 6010C |
| Silver | 4.32 | 5.63 | 77 | 75-125 | 8 | 20 | | 6010C |
| Thallium | 178 | 225 | 79 | 75-125 | 2 | 20 | | 6010C |
| Vanadium | 82.5 | 56.3 | 71 | 75-125 | 4 | 20 | F | 6010C |
| Zinc | 85.8 | 56.3 | 84 | 75-125 | 5 | 20 | | 6010C |
| Mercury | 0.187 | 0.192 | 97 | 11-192 | 2 | 20 | | 7471B |

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: MT-SS19-0-2 PDS | Lab ID: 240-13043-2 PDS

Lab Name: TestAmerica Canton | Job No.: 240-13043-1

SDG No.:

Matrix: Solid | Concentration Units: mg/Kg

| Analyte | SSR | C | Sample Result (SR) | C | Spike Added (SA) | %R | Control Limit %R | Q | Method |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 14.5 | | 2.2 | U | 16.7 | 87 | 80-120 | | 6010C |
| Chromium | 43.4 | | 24 | | 22.3 | 87 | 80-120 | | 6010C |
| Selenium | 35.7 | | 2.2 | U | 44.6 | 80 | 80-120 | | 6010C |
| Silver | 9.62 | | 1.1 | U | 11.2 | 86 | 80-120 | | 6010C |
| Vanadium | 46.6 | | 43 | | 5.58 | 68 | 80-120 | W | 6010C |

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VB - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 240-50598/2-A

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

Sample Matrix: Solid  LCS Source: MTICP1_00017

| Analyte | Solid(mg/Kg) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | True | Found | C | %R | Limits | | Q | Method |
| Antimony | 50.0 | 47.5 | | 95 | 80 | 120 | | 6010C |
| Arsenic | 200 | 187 | | 93 | 80 | 120 | | 6010C |
| Barium | 200 | 194 | | 97 | 80 | 120 | | 6010C |
| Beryllium | 5.00 | 5.10 | | 102 | 80 | 120 | | 6010C |
| Cadmium | 5.00 | 5.04 | | 101 | 80 | 120 | | 6010C |
| Chromium | 20.0 | 20.4 | | 102 | 80 | 120 | | 6010C |
| Cobalt | 50.0 | 49.0 | | 98 | 80 | 120 | | 6010C |
| Copper | 25.0 | 25.1 | | 100 | 80 | 120 | | 6010C |
| Lead | 50.0 | 47.1 | | 94 | 80 | 120 | | 6010C |
| Molybdenum | 100 | 101 | | 101 | 80 | 120 | | 6010C |
| Nickel | 50.0 | 50.5 | | 101 | 80 | 120 | | 6010C |
| Selenium | 200 | 185 | | 92 | 80 | 120 | | 6010C |
| Silver | 5.00 | 5.78 | | 116 | 80 | 120 | | 6010C |
| Thallium | 200 | 192 | | 96 | 80 | 120 | | 6010C |
| Vanadium | 50.0 | 47.0 | | 94 | 80 | 120 | | 6010C |
| Zinc | 50.0 | 50.7 | | 101 | 80 | 120 | | 6010C |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 240-50601/2-A

Lab Name: TestAmerica Canton  Job No.: 240-13043-1

Sample Matrix: Solid  LCS Source: MTHGICVW_00338

| Analyte | Solid(mg/Kg) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | True | Found | C | %R | Limits | | Q | Method |
| Mercury | 0.833 | 0.830 | | 100 | 73 | 121 | | 7471B |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 240-13043-2

SDG No:

Lab Name: TestAmerica Canton  Job No: 240-13043-1

Matrix: Solid  Concentration Units: mg/Kg

| Analyte | Initial Sample Result (I) | C | Serial Dilution Result (S) | C | % Difference | Q | Method |
|---|---|---|---|---|---|---|---|
| Antimony | 2.2 | U | 11 | U | NC | | 6010C |
| Arsenic | 6.2 | | 6.12 | J | NC | | 6010C |
| Barium | 13 | J | 14.3 | J | 9.7 | | 6010C |
| Beryllium | 1.6 | | 2.01 | J | NC | | 6010C |
| Cadmium | 0.56 | U | 2.8 | U | NC | | 6010C |
| Chromium | 24 | | 26.3 | | 9.7 | | 6010C |
| Cobalt | 7.5 | | 8.26 | | NC | | 6010C |
| Copper | 33 | | 36.2 | | NC | | 6010C |
| Lead | 6.7 | | 6.85 | | NC | | 6010C |
| Molybdenum | 0.77 | J | 22 | U | NC | | 6010C |
| Nickel | 30 | | 33.3 | | 12 | V | 6010C |
| Selenium | 2.2 | U | 11 | U | NC | | 6010C |
| Silver | 1.1 | U | 5.6 | U | NC | | 6010C |
| Thallium | 2.2 | U | 11 | U | NC | | 6010C |
| Vanadium | 43 | | 47.0 | | 9.8 | | 6010C |
| Zinc | 38 | | 43.7 | | NC | | 6010C |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Canton  Job Number: 240-13043-1

SDG Number:

Matrix: Solid  Instrument ID: I5

Method: 6010C  MDL Date: 03/01/2011 14:59

Prep Method: 3050B

| Analyte | Wavelength/ Mass | RL (mg/Kg) | MDL (mg/Kg) |
|---|---|---|---|
| Antimony | 206.838 | 2 | 0.39 |
| Arsenic | 189.042 | 1.5 | 0.3 |
| Barium | 493.409 | 20 | 0.071 |
| Beryllium | 313.042 | 0.5 | 0.043 |
| Cadmium | 226.502 | 0.5 | 0.036 |
| Chromium | 267.716 | 1 | 0.2 |
| Cobalt | 228.616 | 1 | 0.16 |
| Copper | 324.753 | 2.5 | 0.74 |
| Lead | 220.353 | 1 | 0.19 |
| Molybdenum | 202.030 | 4 | 0.27 |
| Nickel | 231.604 | 4 | 0.27 |
| Selenium | 196.026 | 2 | 0.45 |
| Silver | 328.068 | 1 | 0.1 |
| Thallium | 190.864 | 2 | 0.55 |
| Vanadium | 292.402 | 1 | 0.12 |
| Zinc | 213.856 | 5 | 1 |

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Canton Job Number: 240-13043-1

SDG Number:

Matrix: Solid Instrument ID: I5

Method: 6010C XMDL Date: 03/01/2011 15:00

| Analyte | Wavelength/ Mass | XRL (ug/L) | XMDL (ug/L) |
|---|---|---|---|
| Antimony | 206.838 | 20 | 1.8 |
| Arsenic | 189.042 | 15 | 3.2 |
| Barium | 493.409 | 200 | 0.67 |
| Beryllium | 313.042 | 5 | 0.46 |
| Cadmium | 226.502 | 5 | 0.66 |
| Chromium | 267.716 | 10 | 2.2 |
| Cobalt | 228.616 | 10 | 1.7 |
| Copper | 324.753 | 25 | 4.5 |
| Lead | 220.353 | 10 | 1.9 |
| Molybdenum | 202.030 | 40 | 1.3 |
| Nickel | 231.604 | 40 | 3.2 |
| Selenium | 196.026 | 20 | 4.1 |
| Silver | 328.068 | 10 | 2.2 |
| Thallium | 190.864 | 20 | 4.7 |
| Vanadium | 292.402 | 10 | 0.64 |
| Zinc | 213.856 | 50 | 5 |

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Canton Job Number: 240-13043-1

SDG Number:

Matrix: Solid Instrument ID: H4

Method: 7471B MDL Date: 02/16/2010 09:48

Prep Method: 7471B

| Analyte | Wavelength/ Mass | RL (mg/Kg) | MDL (mg/Kg) |
|---|---|---|---|
| Mercury | 253.7 | 0.1 | 0.015 |

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Canton Job Number: 240-13043-1

SDG Number:

Matrix: Solid Instrument ID: H4

Method: 7471B XMDL Date: 02/16/2010 09:48

| Analyte | Wavelength/ Mass | XRL (ug/L) | XMDL (ug/L) |
|---|---|---|---|
| Mercury | 253.7 | 0.6 | 0.12 |

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Prep Method: 3050B

| Lab Sample ID | Preparation Date | Prep Batch | Initial Weight (g) | Initial Volume | Final Volume (mL) |
|---|---|---|---|---|---|
| MB 240-50598/1-A | 07/12/2012 09:59 | 50598 | 1.00 | | 100 |
| LCS 240-50598/2-A | 07/12/2012 09:59 | 50598 | 1.00 | | 100 |
| 240-13043-2 | 07/12/2012 09:59 | 50598 | 1.07 | | 100 |
| 240-13043-2 MS | 07/12/2012 09:59 | 50598 | 1.06 | | 100 |
| 240-13043-2 MSD | 07/12/2012 09:59 | 50598 | 1.06 | | 100 |
| 240-13043-3 | 07/12/2012 09:59 | 50598 | 1.15 | | 100 |
| 240-13043-4 | 07/12/2012 09:59 | 50598 | 1.20 | | 100 |
| 240-13043-5 | 07/12/2012 09:59 | 50598 | 1.17 | | 100 |
| 240-13043-6 | 07/12/2012 09:59 | 50598 | 1.27 | | 100 |
| 240-13043-7 | 07/12/2012 09:59 | 50598 | 1.11 | | 100 |

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Prep Method: 7471B

| Lab Sample ID | Preparation Date | Prep Batch | Initial Weight (g) | Initial Volume | Final Volume (mL) |
|---|---|---|---|---|---|
| MB 240-50601/1-A | 07/12/2012 13:30 | 50601 | 0.60 | | 100 |
| LCS 240-50601/2-A | 07/12/2012 13:30 | 50601 | 0.60 | | 100 |
| 240-13043-2 | 07/12/2012 13:30 | 50601 | 0.61 | | 100 |
| 240-13043-2 MS | 07/12/2012 13:30 | 50601 | 0.62 | | 100 |
| 240-13043-2 MSD | 07/12/2012 13:30 | 50601 | 0.62 | | 100 |
| 240-13043-3 | 07/12/2012 13:30 | 50601 | 0.56 | | 100 |
| 240-13043-4 | 07/12/2012 13:30 | 50601 | 0.62 | | 100 |
| 240-13043-5 | 07/12/2012 13:30 | 50601 | 0.58 | | 100 |
| 240-13043-6 | 07/12/2012 13:30 | 50601 | 0.57 | | 100 |
| 240-13043-7 | 07/12/2012 13:30 | 50601 | 0.68 | | 100 |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Instrument ID: I5 Method: 6010C

Start Date: 07/16/2012 10:55 End Date: 07/17/2012 10:25

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Ag | As | Ba | Be | Cd | Co | Cr | Cu | Mo | Ni | Pb | Sb | Se | Tl | V | Zn | | | | |
| STD1 240-51051/1 IC | | | 10:55 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| CALSTD 240-51051/2 IC | | | 11:01 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| CALSTD 240-51051/3 IC | | | 11:06 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| ICV 240-51051/4 | 1 | | 11:10 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| ICBIS 240-51051/5 | 1 | | 11:16 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| CRI 240-51051/6 | | | 11:22 | | | | | | | | | | | | | | | | | | | | |
| CRI 240-51051/7 | 1 | | 11:27 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| ZZZZZZ | | | 11:33 | | | | | | | | | | | | | | | | | | | | |
| ICSA 240-51051/9 | | | 11:39 | | | | | | | | | | | | | | | | | | | | |
| ICSA 240-51051/10 | 1 | | 11:45 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| ICSAB 240-51051/11 | 1 | | 11:51 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| CCV 240-51051/12 | | | 11:57 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-51051/13 | | | 12:02 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:08 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:14 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:19 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:25 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:31 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:36 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:42 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:48 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:53 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:59 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-51051/24 | | | 13:05 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-51051/25 | | | 13:10 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:16 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:22 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:27 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:33 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:39 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:44 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:50 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:56 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:01 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:07 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-51051/36 | | | 14:12 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-51051/37 | | | 14:18 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-51051/38 | | | 14:31 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-51051/39 | | | 14:36 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:42 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:48 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:53 | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Instrument ID: I5 Method: 6010C

Start Date: 07/16/2012 10:55 End Date: 07/17/2012 10:25

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Ag | As | Ba | Be | Cd | Co | Cr | Cu | Mo | Ni | Pb | Sb | Se | Tl | V | Zn | | | | |
| ZZZZZZ | | | 14:59 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:05 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:10 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:16 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:22 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:27 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:33 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-51051/50 | 1 | | 15:39 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| CCB 240-51051/51 | 1 | | 15:44 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| ZZZZZZ | | | 15:50 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:56 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:01 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:07 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:13 | | | | | | | | | | | | | | | | | | | | |
| MB 240-50598/1-A | 1 | T | 16:18 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| LCS 240-50598/2-A | 1 | T | 16:24 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| 240-13043-2 | 1 | T | 16:30 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| 240-13043-2 SD | 5 | T | 16:35 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| 240-13043-2 MS | 1 | T | 16:41 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| CCV 240-51051/62 | 1 | | 16:47 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| CCB 240-51051/63 | 1 | | 16:52 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| 240-13043-2 MSD | 1 | T | 16:58 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| 240-13043-2 PDS | 1 | T | 17:04 | X | | | | | | X | | | | | X | X | | X | | | | | |
| 240-13043-3 | 1 | T | 17:09 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| 240-13043-4 | 1 | T | 17:15 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| 240-13043-5 | 1 | T | 17:20 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| 240-13043-6 | 1 | T | 17:26 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| 240-13043-7 | 1 | T | 17:32 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| ZZZZZZ | | | 17:37 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:43 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:49 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-51051/74 | 1 | | 17:54 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| CCB 240-51051/75 | 1 | | 18:00 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| ZZZZZZ | | | 18:06 | | | | | | | | | | | | | | | | | | | | |
| CRI 240-51051/77 | | | 18:11 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-51051/78 | | | 18:17 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-51051/79 | | | 18:23 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-51051/80 | | | 05:32 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-51051/81 | | | 05:38 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 05:44 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 05:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 05:55 | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Instrument ID: I5 Method: 6010C

Start Date: 07/16/2012 10:55 End Date: 07/17/2012 10:25

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Ag | As | Ba | Be | Cd | Co | Cr | Cu | Mo | Ni | Pb | Sb | Se | Tl | V | Zn | | | | |
| ZZZZZZ | | | 06:01 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 06:06 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 06:12 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-51051/88 | | | 06:18 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-51051/89 | | | 06:23 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-51051/90 | | | 07:20 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-51051/91 | | | 07:26 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 07:31 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 07:37 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 07:43 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 07:48 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 07:54 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:00 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:05 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:11 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:17 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:22 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-51051/102 | | | 08:28 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-51051/103 | | | 08:34 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:43 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:48 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:54 | | | | | | | | | | | | | | | | | | | | |
| CRI 240-51051/107 | 1 | | 09:00 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| ZZZZZZ | | | 09:05 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:11 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:17 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:22 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:28 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:34 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-51051/114 | | | 09:39 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-51051/115 | | | 09:45 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:51 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:56 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:02 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:08 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:13 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-51051/121 | | | 10:19 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-51051/122 | | | 10:25 | | | | | | | | | | | | | | | | | | | | |

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Instrument ID: H4 Method: 7471B

Start Date: 07/13/2012 11:47 End Date: 07/13/2012 14:02

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Hg | | | | | | | | | | | | | | | | | | | | | |
| IC 240-50907/1-A | | | 11:47 | X | | | | | | | | | | | | | | | | | | | | | |
| IC 240-50907/2-A | | | 11:49 | X | | | | | | | | | | | | | | | | | | | | | |
| IC 240-50907/3-A | | | 11:51 | X | | | | | | | | | | | | | | | | | | | | | |
| IC 240-50907/4-A | | | 11:55 | X | | | | | | | | | | | | | | | | | | | | | |
| IC 240-50907/5-A | | | 11:57 | X | | | | | | | | | | | | | | | | | | | | | |
| IC 240-50907/6-A | | | 11:59 | X | | | | | | | | | | | | | | | | | | | | | |
| ICV 240-50907/7-A | 1 | | 12:08 | X | | | | | | | | | | | | | | | | | | | | | |
| ICB 240-50907/8-A | 1 | | 12:10 | X | | | | | | | | | | | | | | | | | | | | | |
| CRA 240-50907/9-B | 1 | | 12:12 | X | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-50907/11-A | | | 12:23 | | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-50907/10-A | | | 12:25 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:27 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:29 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:31 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:32 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:34 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:36 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:38 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:40 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:43 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:45 | | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-50907/11-A | | | 12:47 | | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-50907/10-A | | | 12:50 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:52 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:54 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:56 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:58 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:00 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:02 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:04 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:06 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:08 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:10 | | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-50907/11-A | 1 | | 13:12 | X | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-50907/10-A | 1 | | 13:14 | X | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:16 | | | | | | | | | | | | | | | | | | | | | | |
| MB 240-50601/1-A | 1 | T | 13:18 | X | | | | | | | | | | | | | | | | | | | | | |
| LCS 240-50601/2-A | 1 | T | 13:20 | X | | | | | | | | | | | | | | | | | | | | | |
| 240-13043-2 | 1 | T | 13:22 | X | | | | | | | | | | | | | | | | | | | | | |
| 240-13043-2 MS | 1 | T | 13:24 | X | | | | | | | | | | | | | | | | | | | | | |
| 240-13043-2 MSD | 1 | T | 13:26 | X | | | | | | | | | | | | | | | | | | | | | |
| 240-13043-3 | 1 | T | 13:28 | X | | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-13043-1

SDG No.:

Instrument ID: H4 Method: 7471B

Start Date: 07/13/2012 11:47 End Date: 07/13/2012 14:02

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Hg | | | | | | | | | | | | | | | | | | | | |
| 240-13043-4 | 1 | T | 13:30 | X | | | | | | | | | | | | | | | | | | | | |
| 240-13043-5 | 1 | T | 13:32 | X | | | | | | | | | | | | | | | | | | | | |
| 240-13043-6 | 1 | T | 13:34 | X | | | | | | | | | | | | | | | | | | | | |
| CCV 240-50907/11-A | 1 | | 13:36 | X | | | | | | | | | | | | | | | | | | | | |
| CCB 240-50907/10-A | 1 | | 13:39 | X | | | | | | | | | | | | | | | | | | | | |
| 240-13043-7 | 1 | T | 13:41 | X | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:43 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:47 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:49 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:51 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:53 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:55 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:57 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-50907/11-A | 1 | | 14:00 | X | | | | | | | | | | | | | | | | | | | | |
| CCB 240-50907/10-A | 1 | | 14:02 | X | | | | | | | | | | | | | | | | | | | | |

Prep Types
T = Total/NA

Sample MT-SS20-8-10

Method: TOTAL Sample Name: 240-13043-g-5-a Operator: KLC
Run Time: 07/16/12 17:20 Filename: I50716B
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: N.CANTON Cust. Smpl. ID.: Cust. ID.:

| Elems | Ag | Al | As | B | Ba | Be |
|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | -4.599 | 36890. | 47.993 | 13.34 | 175.9 | 38.52 |
| SDev | .0329 | 13.06 | .78177 | .0618 | .2078 | .0304 |
| %RSD | .7148 | .0354 | 1.6289 | .4632 | .1181 | .079 |

| Elems | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | 4473. | -.4592 | 124.9 | 230.3 | 368.5 | 347800. |
| SDev | 4.641 | .04 | .0142 | .0737 | .164 | 536.5 |
| %RSD | .1037 | 8.713 | .0114 | .032 | .0445 | .1542 |

| Elems | K | Mg | Mn | Mo | Na | Ni |
|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | 9845. | 4940. | 1240. | 5.541 | -705.8 | 422.1 |
| SDev | 3.962 | 2.633 | 1.085 | .5495 | 53.94 | .7235 |
| %RSD | .0402 | .0533 | .0874 | 9.917 | 7.642 | .1714 |

| Elems | Se | Pb | Sb | Sn | Ti | Tl |
|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | -18.944 | 60.151 | 6.3972 | -.5782 | 3409. | -5.3766 |
| SDev | 2.7549 | .0072 | .36326 | .9007 | 2.512 | 1.6142 |
| %RSD | 14.543 | .01198 | 5.6785 | 155.8 | .0737 | 30.024 |

| Elems | V | Zn | 2203\1 | 2203\2 | 1960\1 | 1960\2 |
|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | 365.9 | 704.9 | 51.341 | 64.549 | -24.928 | -15.956 |
| SDev | .2391 | .2248 | 1.4602 | .71819 | 1.7584 | 3.2525 |
| %RSD | .0653 | .0319 | 2.8441 | 1.1126 | 7.0541 | 20.384 |

| Elems | 2068/2 | 2068/1 | Y_3710 | *Y |
|---|---|---|---|---|
| Units | ppb | ppb | ppb | |
| Avge | -5.1865 | 12.180 | 5.0000 | 14832.1 |
| SDev | 1.6014 | .25487 | 0 | 47.6586 |
| %RSD | 30.876 | 2.0925 | 0 | .32132 |

Copper result 38 mg/kg

$$\left(\frac{368.5\,ug}{L}\right)\left(\frac{0.10L}{1.17g}\right)\left(\frac{1\,mg}{1000\,ug}\right)\left(\frac{1000g}{1kg}\right)\left(\frac{1}{.822}\right) = 38.3\ mg/kg$$

**Tetra Tech** **INTERNAL CORRESPONDENCE**

**TO:** **T. APANAVAGE** **DATE: NOVEMBER 29, 2012**

**FROM:** **TERRI L. SOLOMON** **COPIES: DV FILE / Rev. 1**

**SUBJECT:** **INORGANIC DATA VALIDATION – SELECT TOTAL METALS, TCLP METALS**
**MARTIN STATE AIRPORT – MAIN TERMINAL**
**SAMPLE DELIVERY GROUP (SDG) – 240-13070-1**

**SAMPLES:** 4/Soil/

MT-SS17-0-2 MT-SS17-8-10 MT-SS18-0-2
MT-SS18-8-10

1/TCLP/

MT-TCLP-8-10

Overview

The sample set for Martin State Airport – Main Terminal, SDG 240-13070-1, consists of four (4) soil environmental samples and one TCLP sample. No field duplicate pairs were included within this SDG.

All soil samples were analyzed for select total metals including antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium and zinc. The TCLP sample was analyzed for arsenic, barium, cadmium, chromium, lead, mercury, selenium and silver. The samples were collected by Tetra Tech on July 10, 2012 and analyzed by Test America. Metals analyses were conducted using SW-846 method 6010C. Mercury analyses were conducted using SW-846 method 7470A.

The findings offered in this report are based upon a general review of all available data. The data review was based on data completeness, holding times, initial and continuing calibration verification results, laboratory method / preparation blank results, ICP interference results, laboratory control sample recoveries, matrix spike / matrix spike duplicate recoveries, ICP serial dilution results, detection limits and analyte quantitation.

Areas of concern with respect to data quality are listed below.

Major Problems

None.

Minor Problems

- The contract required detection limit (CRDL) percent recovery for selenium was < 90% quality control limit affecting sample MT-TCLP-8-10. The nondetected result reported for selenium was qualified as biased low, "UL".

- The CRDL percent recoveries for arsenic, cobalt, silver and thallium were < 90% quality control limit affecting the soil samples. The nondetected results reported for silver and thallium were qualified as biased low, "UL". The positive results < 2X CRDL reported for arsenic and cobalt were qualified as either biased low, "L", or estimated, "J", as a result of conflicting noncompliances.

- The CRDL percent recovery for zinc was > 110% quality control limit affecting the soil samples. The positive results < 2X CRDL reported for zinc were qualified as estimated, "J", as a result of conflicting noncompliances.

- The following contaminants were detected in the laboratory method/preparation blanks at the following maximum concentrations:

| Analyte | Maximum Concentration | Action Level |
|---|---|---|
| Lead[1] | 3.83 ug/L | 0.01915 mg/L |
| Selenium[1] | 4.40 ug/L | 0.022 mg/L |
| Barium[2] | 0.00337 mg/L | 0.01685 mg/L |
| Beryllium[3] | 0.963 ug/L | 0.4815 mg/kg |
| Molybdenum[3] | 2.75 ug/L | 1.375 mg/kg |
| Vanadium[3] | 1.31 ug/L | 0.655 mg/kg |
| Zinc[3] | 6.29 ug/L | 3.145 mg/kg |
| Antimony[4] | 0.497 mg/kg | 2.485 mg/kg |
| Barium[4] | 0.315 mg/kg | 1.575 mg/kg |

[1] Maximum concentration present in a method blank affecting sample MT-TCLP-8-10.
[2] Maximum concentration present in a TCLP blank affecting sample MT-TCLP-8-10.
[3] Maximum concentration present in a method blank affecting the soil samples.
[4] Maximum concentration present in a soil preparation blank.

An action level of 5X the maximum contaminant level has been used to evaluate sample data for blank contamination. Sample aliquot, percent solids and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. Positive results less than the blank action level reported for antimony, beryllium and molybdenum were qualified "B" as a result of laboratory blank contamination.

- Positive results reported below the reporting limit (RL) but above the method detection limit (MDL) were qualified as estimated, "J".

Notes

The continuing calibration percent recoveries for arsenic and silver on 07/16/2012 at 18:22 were > 110% quality control limit affecting sample MT-TCLP-8-10. No validation actions were warranted as all sample results were nondetects.

Executive Summary

**Laboratory Performance:** Several CRDL percent recoveries were outside the 90-110% quality control limits. Several analytes were present in the laboratory method / preparation blanks.

**Other Factors Affecting Data Quality:** Positive results reported below the RL but above the MDL were qualified as estimated.

The data for these analyses were reviewed with reference to Region III modifications to the "National Functional Guidelines for Inorganic Data Validation", April 1993.

The text of this report has been formulated to address only those problem areas affecting data quality.

Tetra Tech
Terri L. Solomon
Environmental Scientist

Tetra Tech
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

# APPENDIX A
# QUALIFIED ANALYTICAL RESULTS

**Qualifier Codes:**

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = ICP PDS Recovery Noncompliance; MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = RPD between columns/detectors >40% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity
Z1 = Tentatively Identified Compound considered presumptively present
Z2 = Tentatively Identified Compound column bleed

MT-SS17-02 MT-SS17-8-10

| PROJ_NO: 04054 | NSAMPLE | ~~MT-SB17-8~~-2 TS 11/29/12 | | | ~~MT-SB17-8-10~~ TS 11/29/12 | | | MT-SS18-0-2 | | | MT-SS18-8-10 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-13070-1 | LAB_ID | 240-13070-5 | | | 240-13070-6 | | | 240-13070-2 | | | 240-13070-3 | | |
| FRACTION: M | SAMP_DATE | 7/10/2012 | | | 7/10/2012 | | | 7/10/2012 | | | 7/10/2012 | | |
| MEDIA: SOIL | QC_TYPE | NM | | | NM | | | NM | | | NM | | |
| | UNITS | MG/KG | | | MG/KG | | | MG/KG | | | MG/KG | | |
| | PCT_SOLIDS | 83.6 | | | 82.4 | | | 83.9 | | | 85.9 | | |
| | DUP_OF | | | | | | | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| ANTIMONY | | 0.42 | U | | 0.4 | U | | 0.79 | B | A | 0.44 | U | |
| ARSENIC | | 5.7 | | | 2.4 | L | C | 6.7 | | | 1 | J | CP |
| BARIUM | | 20 | J | P | 13 | J | P | 9.3 | J | P | 10 | J | P |
| BERYLLIUM | | 2.4 | | | 1.8 | | | 2.4 | | | 0.44 | B | A |
| CADMIUM | | 0.039 | U | | 0.037 | U | | 0.035 | U | | 0.04 | U | |
| CHROMIUM | | 19 | | | 25 | | | 29 | | | 20 | | |
| COBALT | | 9.7 | | | 4.7 | | | 7 | | | 1.8 | L | C |
| COPPER | | 17 | | | 13 | | | 36 | | | 4.7 | | |
| LEAD | | 7.8 | | | 5.2 | | | 1.9 | | | 1 | J | P |
| MERCURY | | 0.017 | U | | 0.019 | U | | 0.017 | U | | 0.018 | U | |
| MOLYBDENUM | | 0.29 | U | | 0.55 | B | A | 0.26 | U | | 0.3 | U | |
| NICKEL | | 22 | | | 17 | | | 16 | | | 3.3 | J | P |
| SELENIUM | | 0.48 | U | | 0.46 | U | | 0.98 | J | P | 0.5 | U | |
| SILVER | | 0.11 | UL | C | 0.1 | UL | C | 0.096 | UL | C | 0.11 | UL | C |
| THALLIUM | | 0.59 | UL | C | 0.56 | UL | C | 0.53 | UL | C | 0.62 | UL | C |
| VANADIUM | | 28 | | | 46 | | | 80 | | | 14 | | |
| ZINC | | 79 | | | 17 | | | 20 | | | 4.9 | J | CP |

| | | | | |
|---|---|---|---|---|
| **PROJ_NO: 04054** | NSAMPLE | MT-TCLP-8-10 | | |
| **SDG: 240-13070-1** | LAB_ID | 240-13070-4 | | |
| **FRACTION: TCLPM** | SAMP_DATE | 7/10/2012 | | |
| **MEDIA: SOIL** | QC_TYPE | NM | | |
| | UNITS | MG/L | | |
| | PCT_SOLIDS | 0.0 | | |
| | DUP_OF | | | |
| PARAMETER | | RESULT | VQL | QLCD |
| ARSENIC | | 0.0032 | U | |
| BARIUM | | 0.17 | J | P |
| CADMIUM | | 0.0013 | J | P |
| CHROMIUM | | 0.0047 | J | P |
| LEAD | | 0.05 | J | P |
| MERCURY | | 0.00012 | U | |
| SELENIUM | | 0.0041 | UL | C |
| SILVER | | 0.0022 | U | |

# APPENDIX B
# RESULTS AS REPORTED BY THE LABORATORY

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: ~~MT-SB17-0-2~~ MT-SS17-0-2 TLS 11/30/12

Lab Sample ID: 240-13070-5

Lab Name: TestAmerica Canton

Job No.: 240-13070-1

SDG ID.:

Matrix: Solid

Date Sampled: 07/10/2012 10:25

Reporting Basis: DRY

Date Received: 07/11/2012 08:00

% Solids: 83.6

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 2.2 | 2.2 | 0.42 | mg/Kg | U | | 1 | 6010C |
| 7440-38-2 | Arsenic | 5.7 | 1.6 | 0.32 | mg/Kg | | | 1 | 6010C |
| 7440-39-3 | Barium | 20 | 22 | 0.077 | mg/Kg | J | B | 1 | 6010C |
| 7440-41-7 | Beryllium | 2.4 | 0.54 | 0.046 | mg/Kg | | B | 1 | 6010C |
| 7440-43-9 | Cadmium | 0.54 | 0.54 | 0.039 | mg/Kg | U | | 1 | 6010C |
| 7440-47-3 | Chromium | 19 | 1.1 | 0.22 | mg/Kg | | | 1 | 6010C |
| 7440-48-4 | Cobalt | 9.7 | 1.1 | 0.17 | mg/Kg | | | 1 | 6010C |
| 7440-50-8 | Copper | 17 | 2.7 | 0.80 | mg/Kg | | | 1 | 6010C |
| 7439-92-1 | Lead | 7.8 | 1.1 | 0.20 | mg/Kg | | | 1 | 6010C |
| 7439-98-7 | Molybdenum | 4.3 | 4.3 | 0.29 | mg/Kg | U | | 1 | 6010C |
| 7440-02-0 | Nickel | 22 | 4.3 | 0.29 | mg/Kg | | | 1 | 6010C |
| 7782-49-2 | Selenium | 2.2 | 2.2 | 0.48 | mg/Kg | U | | 1 | 6010C |
| 7440-22-4 | Silver | 1.1 | 1.1 | 0.11 | mg/Kg | U | | 1 | 6010C |
| 7440-28-0 | Thallium | 2.2 | 2.2 | 0.59 | mg/Kg | U | | 1 | 6010C |
| 7440-62-2 | Vanadium | 28 | 1.1 | 0.13 | mg/Kg | | | 1 | 6010C |
| 7440-66-6 | Zinc | 79 | 5.4 | 1.1 | mg/Kg | | | 1 | 6010C |
| 7439-97-6 | Mercury | 0.11 | 0.11 | 0.017 | mg/Kg | U | | 1 | 7471B |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: ~~MT-SB17-8-10~~ MT-SB17-8-10 RS 11/29/12

Lab Sample ID: 240-13070-6

Lab Name: TestAmerica Canton

Job No.: 240-13070-1

SDG ID.:

Matrix: Solid

Date Sampled: 07/10/2012 10:30

Reporting Basis: DRY

Date Received: 07/11/2012 08:00

% Solids: 82.4

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 2.0 | 2.0 | 0.40 | mg/Kg | U | | 1 | 6010C |
| 7440-38-2 | Arsenic | 2.4 | 1.5 | 0.31 | mg/Kg | | | 1 | 6010C |
| 7440-39-3 | Barium | 13 | 20 | 0.072 | mg/Kg | J | B | 1 | 6010C |
| 7440-41-7 | Beryllium | 1.8 | 0.51 | 0.044 | mg/Kg | | B | 1 | 6010C |
| 7440-43-9 | Cadmium | 0.51 | 0.51 | 0.037 | mg/Kg | U | | 1 | 6010C |
| 7440-47-3 | Chromium | 25 | 1.0 | 0.20 | mg/Kg | | | 1 | 6010C |
| 7440-48-4 | Cobalt | 4.7 | 1.0 | 0.16 | mg/Kg | | | 1 | 6010C |
| 7440-50-8 | Copper | 13 | 2.5 | 0.75 | mg/Kg | | | 1 | 6010C |
| 7439-92-1 | Lead | 5.2 | 1.0 | 0.19 | mg/Kg | | | 1 | 6010C |
| 7439-98-7 | Molybdenum | 0.55 | 4.1 | 0.28 | mg/Kg | J | | 1 | 6010C |
| 7440-02-0 | Nickel | 17 | 4.1 | 0.28 | mg/Kg | | | 1 | 6010C |
| 7782-49-2 | Selenium | 2.0 | 2.0 | 0.46 | mg/Kg | U | | 1 | 6010C |
| 7440-22-4 | Silver | 1.0 | 1.0 | 0.10 | mg/Kg | U | | 1 | 6010C |
| 7440-28-0 | Thallium | 2.0 | 2.0 | 0.56 | mg/Kg | U | | 1 | 6010C |
| 7440-62-2 | Vanadium | 46 | 1.0 | 0.12 | mg/Kg | | | 1 | 6010C |
| 7440-66-6 | Zinc | 17 | 5.1 | 1.0 | mg/Kg | | | 1 | 6010C |
| 7439-97-6 | Mercury | 0.13 | 0.13 | 0.019 | mg/Kg | U | | 1 | 7471B |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MT-SS18-0-2 | Lab Sample ID: 240-13070-2

Lab Name: TestAmerica Canton | Job No.: 240-13070-1

SDG ID.:

Matrix: Solid | Date Sampled: 07/10/2012 09:15

Reporting Basis: DRY | Date Received: 07/11/2012 08:00

% Solids: 83.9

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 0.79 | 1.9 | 0.37 | mg/Kg | J | B | 1 | 6010C |
| 7440-38-2 | Arsenic | 6.7 | 1.4 | 0.29 | mg/Kg | | | 1 | 6010C |
| 7440-39-3 | Barium | 9.3 | 19 | 0.068 | mg/Kg | J | B | 1 | 6010C |
| 7440-41-7 | Beryllium | 2.4 | 0.48 | 0.041 | mg/Kg | | B | 1 | 6010C |
| 7440-43-9 | Cadmium | 0.48 | 0.48 | 0.035 | mg/Kg | U | | 1 | 6010C |
| 7440-47-3 | Chromium | 29 | 0.96 | 0.19 | mg/Kg | | | 1 | 6010C |
| 7440-48-4 | Cobalt | 7.0 | 0.96 | 0.15 | mg/Kg | | | 1 | 6010C |
| 7440-50-8 | Copper | 36 | 2.4 | 0.71 | mg/Kg | | | 1 | 6010C |
| 7439-92-1 | Lead | 1.9 | 0.96 | 0.18 | mg/Kg | | | 1 | 6010C |
| 7439-98-7 | Molybdenum | 3.8 | 3.8 | 0.26 | mg/Kg | U | | 1 | 6010C |
| 7440-02-0 | Nickel | 16 | 3.8 | 0.26 | mg/Kg | | | 1 | 6010C |
| 7782-49-2 | Selenium | 0.98 | 1.9 | 0.43 | mg/Kg | J | | 1 | 6010C |
| 7440-22-4 | Silver | 0.96 | 0.96 | 0.096 | mg/Kg | U | | 1 | 6010C |
| 7440-28-0 | Thallium | 1.9 | 1.9 | 0.53 | mg/Kg | U | | 1 | 6010C |
| 7440-62-2 | Vanadium | 80 | 0.96 | 0.12 | mg/Kg | | | 1 | 6010C |
| 7440-66-6 | Zinc | 20 | 4.8 | 0.96 | mg/Kg | | | 1 | 6010C |
| 7439-97-6 | Mercury | 0.12 | 0.12 | 0.017 | mg/Kg | U | | 1 | 7471B |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MT-SS18-8-10 | Lab Sample ID: 240-13070-3

Lab Name: TestAmerica Canton | Job No.: 240-13070-1

SDG ID.:

Matrix: Solid | Date Sampled: 07/10/2012 09:20

Reporting Basis: DRY | Date Received: 07/11/2012 08:00

% Solids: 85.9

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 2.2 | 2.2 | 0.44 | mg/Kg | U | | 1 | 6010C |
| 7440-38-2 | Arsenic | 1.0 | 1.7 | 0.34 | mg/Kg | J | | 1 | 6010C |
| 7440-39-3 | Barium | 10 | 22 | 0.079 | mg/Kg | J | B | 1 | 6010C |
| 7440-41-7 | Beryllium | 0.44 | 0.56 | 0.048 | mg/Kg | J | B | 1 | 6010C |
| 7440-43-9 | Cadmium | 0.56 | 0.56 | 0.040 | mg/Kg | U | | 1 | 6010C |
| 7440-47-3 | Chromium | 20 | 1.1 | 0.22 | mg/Kg | | | 1 | 6010C |
| 7440-48-4 | Cobalt | 1.8 | 1.1 | 0.18 | mg/Kg | | | 1 | 6010C |
| 7440-50-8 | Copper | 4.7 | 2.8 | 0.83 | mg/Kg | | | 1 | 6010C |
| 7439-92-1 | Lead | 1.0 | 1.1 | 0.21 | mg/Kg | J | | 1 | 6010C |
| 7439-98-7 | Molybdenum | 4.5 | 4.5 | 0.30 | mg/Kg | U | | 1 | 6010C |
| 7440-02-0 | Nickel | 3.3 | 4.5 | 0.30 | mg/Kg | J | | 1 | 6010C |
| 7782-49-2 | Selenium | 2.2 | 2.2 | 0.50 | mg/Kg | U | | 1 | 6010C |
| 7440-22-4 | Silver | 1.1 | 1.1 | 0.11 | mg/Kg | U | | 1 | 6010C |
| 7440-28-0 | Thallium | 2.2 | 2.2 | 0.62 | mg/Kg | U | | 1 | 6010C |
| 7440-62-2 | Vanadium | 14 | 1.1 | 0.13 | mg/Kg | | | 1 | 6010C |
| 7440-66-6 | Zinc | 4.9 | 5.6 | 1.1 | mg/Kg | J | | 1 | 6010C |
| 7439-97-6 | Mercury | 0.12 | 0.12 | 0.018 | mg/Kg | U | | 1 | 7471B |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: MT-TCLP-8-10 Lab Sample ID: 240-13070-4

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG ID.:

Matrix: Solid Date Sampled: 07/10/2012 09:25

Reporting Basis: WET Date Received: 07/11/2012 08:00

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7440-38-2 | Arsenic | 0.50 | 0.50 | 0.0032 | mg/L | U | ^ | 1 | 6010B |
| 7440-39-3 | Barium | 0.17 | 10 | 0.00067 | mg/L | J | B | 1 | 6010B |
| 7440-43-9 | Cadmium | 0.0013 | 0.10 | 0.00066 | mg/L | J | | 1 | 6010B |
| 7440-47-3 | Chromium | 0.0047 | 0.50 | 0.0022 | mg/L | J | | 1 | 6010B |
| 7439-92-1 | Lead | 0.050 | 0.50 | 0.0019 | mg/L | J | | 1 | 6010B |
| 7782-49-2 | Selenium | 0.25 | 0.25 | 0.0041 | mg/L | U | | 1 | 6010B |
| 7440-22-4 | Silver | 0.50 | 0.50 | 0.0022 | mg/L | U | ^ | 1 | 6010B |
| 7439-97-6 | Mercury | 0.0020 | 0.0020 | 0.00012 | mg/L | U | | 1 | 7470A |

# APPENDIX C
# SUPPORT DOCUMENTATION

## CASE NARRATIVE

## Client: Tetra Tech, Inc

## Project: LM MSA Main Terminal Phase II Investigat

## Report Number: 240-13070-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client

**RECEIPT**

The samples were received on 07/11/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 0.6 C.

Samples MT-TCLP-8-10 was not logged for PCB's per client. Samples MT-SS18-0-2, MM-SB18-8-10, MT-SB17-0-2, and MT-SB17-8-10 were logged for DRO per client.

**TCLP VOLATILE ORGANIC COMPOUNDS (GC-MS)**

Sample MT-TCLP-8-10 (240-13070-4) was analyzed for TCLP volatile organic compounds (GC-MS) in accordance with EPA SW-846 Methods 1311/8260B. The samples were leached on 07/12/2012 and analyzed on 07/13/2012.

No difficulties were encountered during the VOCs analysis. All quality control parameters were within the acceptance limits.

**VOLATILE ORGANIC COMPOUNDS (GC-MS)**

Samples MT-SS18-0-2 (240-13070-2), MT-SS18-8-10 (240-13070-3), MT-SB17-0-2 (240-13070-5) and MT-SB17-8-10 (240-13070-6) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were prepared on 07/11/2012 and 07/12/2012 and analyzed on 07/16/2012 and 07/17/2012.

1,2,4-Trichlorobenzene was detected in method blank MB 240-50627/1-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. 1,3-Dichlorobenzene, m-Xylene & p-Xylene and Naphthalene were detected in method blank MB 240-50627/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

Several analytes were detected in method blank MB 240-50900/6 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

Several analytes were detected in method blank MB 240-51061/6 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

The laboratory control sample (LCS) for batch 50627 recovered outside acceptance limits for 1,2-Dichloroethane and 1,2-Dichloropropane. There was insufficient sample to perform a re-extraction or re-analysis; therefore, the data have been reported.

The laboratory control sample (LCS) for batch 50900 exceeded control limits for the following analytes: Chlorobenzene, 1,3-Dichloropropane, and 1,2-Dichloropropane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The laboratory control sample (LCS) for batch 51061 exceeded control limits for the following analytes: 1,2-Dichloropropane and 1,3-Dichloropropane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

There was a MS/MSD prepared for batch 50627 but could not be reported because of the high dilution factor in the parent sample.

Vinyl acetate failed the recovery criteria low for the MS/MSD of sample 240-13217-1 in batch 240-50900. Vinyl acetate exceeded the rpd limit.

Vinyl acetate failed the recovery criteria low for the MS/MSD of sample 240-13194-2 in batch 240-51061.

No other difficulties were encountered during the VOCs analyses. All other quality control parameters were within the acceptance limits.

**VOLATILE ORGANIC COMPOUNDS (GC-MS)**
Sample TB-071012 (240-13070-1) was analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 07/13/2012.

2-Chloroethyl vinyl ether failed the recovery criteria low for the MS of sample 240-13078-2 in batch 240-50744. Several analytes failed the recovery criteria low for the MSD of sample 240-13078-2 in batch 240-50744. 1,1,2-Trichloro-1,2,2-trichfluoroethane and Dichlorodifluoromethane exceeded the rpd limit.

No other difficulties were encountered during the VOCs analysis. All other quality control parameters were within the acceptance limits.

**TCLP SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)**
Sample MT-TCLP-8-10 (240-13070-4) was analyzed for TCLP semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Methods 1311/8270C. The samples were leached on 07/12/2012, prepared on 07/13/2012 and analyzed on 07/16/2012.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out and no corrective action is required.

No difficulties were encountered during the SVOCs analysis. All quality control parameters were within the acceptance limits.

**SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)**
Samples MT-SS18-0-2 (240-13070-2), MT-SS18-8-10 (240-13070-3), MT-SB17-0-2 (240-13070-5) and MT-SB17-8-10 (240-13070-6) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 07/19/2012 and analyzed on 07/23/2012.

Hexachlorocyclopentadiene failed the recovery criteria low for the MS/MSD of sample MT-SB17-0-2 (240-13070-5) in batch 240-51606.

No other difficulties were encountered during the SVOCs analyses. All other quality control parameters were within the acceptance limits.

**GASOLINE RANGE ORGANICS (GRO)**
Samples MT-SS18-0-2 (240-13070-2), MT-SS18-8-10 (240-13070-3), MT-SB17-0-2 (240-13070-5) and MT-SB17-8-10 (240-13070-6) were analyzed for gasoline range organics (GRO) in accordance with EPA-SW-846 Method 8015C - GRO. The samples were analyzed on 07/18/2012.

Sample MT-SS18-0-2 (240-13070-2)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the GRO analyses. All quality control parameters were within the acceptance limits.

**DIESEL RANGE ORGANICS (DRO)**
Samples MT-SS18-0-2 (240-13070-2), MT-SS18-8-10 (240-13070-3), MT-SB17-0-2 (240-13070-5) and MT-SB17-8-10 (240-13070-6) were analyzed for diesel range organics (DRO) in accordance with EPA SW-846 Method 8015C - DRO. The samples were prepared on 07/20/2012 and analyzed on 07/25/2012 and 07/26/2012.

No difficulties were encountered during the DRO analyses. All quality control parameters were within the acceptance limits.

**TCLP CHLORINATED PESTICIDES**
Sample MT-TCLP-8-10 (240-13070-4) was analyzed for TCLP chlorinated pesticides in accordance with EPA SW-846 Methods 1311/ 8081A. The samples were leached on 07/12/2012, prepared on 07/13/2012 and analyzed on 07/16/2012.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are

diluted out and no corrective action is required.

The grand mean exception, as outlined in EPA Method 8000B, was applied to the opening and closing continuing calibration verification (CCV) standards associated with batch 50850 This rule states that when one or more compounds in the CCV fail to meet acceptance criteria, the initial calibration (ICAL) may be used for quantitation if the average %D (the grand mean) of all the compounds in the CCV is less than or equal to 15 %D. Sample MT-TCLP-8-10 (240-13070-4), associated with these CCVs, was non-detect for the affected analytes; therefore, the data were reported.

No other difficulties were encountered during the pesticides analysis. All quality control parameters were within the acceptance limits.

**POLYCHLORINATED BIPHENYLS (PCBS)**
Samples MT-SS18-0-2 (240-13070-2), MT-SS18-8-10 (240-13070-3), MT-SB17-0-2 (240-13070-5) and MT-SB17-8-10 (240-13070-6) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082A. The samples were prepared on 07/19/2012 and analyzed on 07/23/2012.

The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: MT-SB17-0-2 (240-13070-5), MT-SB17-8-10 (240-13070-6), and MT-SS18-0-2 (240-13070-2). Lot # S65830.

No other difficulties were encountered during the PCBs analyses. All quality control parameters were within the acceptance limits.

**TCLP CHLORINATED HERBICIDES**
Sample MT-TCLP-8-10 (240-13070-4) was analyzed for TCLP chlorinated herbicides in accordance with EPA SW-846 Methods 1311/ 8151A. The samples were leached on 07/12/2012, prepared on 07/13/2012 and analyzed on 07/23/2012.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required.

No difficulties were encountered during the herbicides analysis. All quality control parameters were within the acceptance limits.

**TCLP METALS (ICP)**
Sample MT-TCLP-8-10 (240-13070-4) was analyzed for TCLP metals (ICP) in accordance with EPA SW-846 Methods 1311/ 6010B. The samples were leached on 07/12/2012, prepared on 07/13/2012 and analyzed on 07/16/2012.

Barium was detected in method blank LB 240-50668/1-D at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

No other difficulties were encountered during the metals analysis. All other quality control parameters were within the acceptance limits.

**TOTAL METALS (ICP)**
Samples MT-SS18-0-2 (240-13070-2), MT-SS18-8-10 (240-13070-3), MT-SB17-0-2 (240-13070-5) and MT-SB17-8-10 (240-13070-6) were analyzed for total metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 07/12/2012 and analyzed on 07/16/2012 and 07/17/2012.

Antimony, Barium and Beryllium were detected in method blank MB 240-50598/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

Several analytes failed the recovery criteria low for the MS of sample 240-13043-2 in batch 240-51051. Antimony, Chromium, Selenium and Vanadium failed the recovery criteria low for the MSD of sample 240-13043-2 in batch 240-51051.

The continuing calibration verification (CCV) for Silver and Arsenic associated with batch 50963 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data for the following associated sample have been reported. MT-TCLP-8-10 (240-13070-4)

No other difficulties were encountered during the metals analyses. All other quality control parameters were within the acceptance limits.

**TCLP MERCURY**
Sample MT-TCLP-8-10 (240-13070-4) was analyzed for TCLP mercury in accordance with EPA SW-846 Methods 1311/7470A. The samples were leached on 07/12/2012, prepared on 07/13/2012 and analyzed on 07/16/2012.

No difficulties were encountered during the mercury analysis. All quality control parameters were within the acceptance limits.

**MERCURY**
Samples MT-SS18-0-2 (240-13070-2), MT-SS18-8-10 (240-13070-3), MT-SB17-0-2 (240-13070-5) and MT-SB17-8-10 (240-13070-6) were analyzed for mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared on 07/12/2012 and analyzed on 07/13/2012.

No difficulties were encountered during the mercury analyses. All quality control parameters were within the acceptance limits.

**PERCENT SOLIDS**

Samples MT-SS18-0-2 (240-13070-2), MT-SS18-8-10 (240-13070-3), MT-SB17-0-2 (240-13070-5) and MT-SB17-8-10 (240-13070-6) were analyzed for percent solids in accordance with EPA Method 160.3 MOD. The samples were analyzed on 07/11/2012 and 07/12/2012.

No difficulties were encountered during the % solids analyses. All quality control parameters were within the acceptance limits.

# Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

| Client Contact | Client Project Manager: | Site Contact: | Lab Contact: | COC No: |
|---|---|---|---|---|
| Company Name: Tetra Tech Inc. | Tony Aparnavage | Stu Cameron | Pat O'Meara | 1 of 1 COCs |
| Address: 20251 Century Blvd. | Telephone: 301 528-3021 | Telephone: 703 342-9389 | Telephone: 330 457-9396 | |
| City/State/Zip: Germantown, MD 20874 | Email: | | | |
| Phone: 301 528-3021 | | TAT if different from below: ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day | Analyses | |
| Project Name: NSA-MT Soil Boring Sampling | Method of Shipment/Carrier: Fed EX | | | |
| Project Number: 112IC04054-04 | Shipping/Tracking No: | | | |
| PO# | | | | |

| Sample Identification | Sample Date | Sample Time | Matrix: Air | Aqueous | Sediment | Solid | Other | Preservation: H2SO4 | HNO3 | HCl | NaOH | ZnAc/ NaOH | Unpres | Other: Alcohol | Field Filtered | Perform MS/MSD (Y/N) | VOCs | SVOCs / PCBs | Metals | Gas | VOCs | Sample Specific Notes / Special Instructions: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TB-070912 | 7-9-12 | — | | X | | | | | | 2 | | | | | W | G | X | | | | | |
| MT-SS19-0-2 | | 1140 | | | | X | | | | | | | 4 | 3 | | | X | X | X | X | X | |
| ~~MT-SB19-8-10~~ MT-SS19-8-10 | | 1145 | | | | X | | | | | | | 4 | 3 | | | X | X | X | X | X | |
| MT-SS20-0-2 | | 1340 | | | | X | | | | | | | 4 | 3 | | | X | X | X | X | X | |
| ~~MT-SB20-8-10~~ MT-SS20-8-10 | | 1345 | | | | X | | | | | | | 4 | 3 | | | X | X | X | X | X | |
| ~~MT-SB21-0-2~~ MT-SS21-0-2 | | 1430 | | | | X | | | | | | | 4 | 3 | | | X | X | X | X | X | |
| ~~MT-SB21-8-10~~ MT-SS21-8-10 | | 1435 | | | | X | | | | | | | 4 | 3 | | | X | X | X | X | X | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |

AC 11/29/12

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Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return to Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

| Relinquished by: | Company: | Date/Time: | Received by: | Company: | Date/Time: |
|---|---|---|---|---|---|
| Relinquished by: | Company: | Date/Time: | Received by: | Company: | Date/Time: |
| Relinquished by: | Company: | Date/Time: | Received in Laboratory by: | Company: | Date/Time: |
| | Tetra Tech | 7-9-12 / 1515 | | TAL | 7/10/12 830 |

07/26/2012

TAL-0016 (1008)

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# HOLDTIME

**SDG** 240-13070-1

| SORT | UNITS | NSAMPLE | LAB_ID | QC_TYPE | SAMP_DATE | EXTR_DATE | ANAL_DATE | SMP_EXTR | EXTR_ANL | SMP_ANL |
|---|---|---|---|---|---|---|---|---|---|---|
| HG | MG/KG | MT-SB17-0-2 | 240-13070-5 | NM | 7/10/2012 | 7/12/2012 | 7/13/2012 | 2 | 1 | 3 |
| HG | MG/KG | MT-SB17-8-10 | 240-13070-6 | NM | 7/10/2012 | 7/12/2012 | 7/13/2012 | 2 | 1 | 3 |
| HG | MG/KG | MT-SS18-0-2 | 240-13070-2 | NM | 7/10/2012 | 7/12/2012 | 7/13/2012 | 2 | 1 | 3 |
| HG | MG/KG | MT-SS18-8-10 | 240-13070-3 | NM | 7/10/2012 | 7/12/2012 | 7/13/2012 | 2 | 1 | 3 |
| M | MG/KG | MT-SS18-8-10 | 240-13070-3 | NM | 7/10/2012 | 7/12/2012 | 7/16/2012 | 2 | 4 | 6 |
| M | MG/KG | MT-SB17-0-2 | 240-13070-5 | NM | 7/10/2012 | 7/12/2012 | 7/16/2012 | 2 | 4 | 6 |
| M | MG/KG | MT-SB17-8-10 | 240-13070-6 | NM | 7/10/2012 | 7/12/2012 | 7/16/2012 | 2 | 4 | 6 |
| M | MG/KG | MT-SB17-8-10 | 240-13070-6 | NM | 7/10/2012 | 7/12/2012 | 7/17/2012 | 2 | 5 | 7 |
| M | MG/KG | MT-SS18-0-2 | 240-13070-2 | NM | 7/10/2012 | 7/12/2012 | 7/16/2012 | 2 | 4 | 6 |
| M | MG/KG | MT-SS18-0-2 | 240-13070-2 | NM | 7/10/2012 | 7/12/2012 | 7/17/2012 | 2 | 5 | 7 |
| OS | UG/KG | MT-SS18-8-10 | 240-13070-3 | NM | 7/10/2012 | 7/19/2012 | 7/23/2012 | 9 | 4 | 13 |
| OS | UG/KG | MT-SS18-0-2 | 240-13070-2 | NM | 7/10/2012 | 7/19/2012 | 7/23/2012 | 9 | 4 | 13 |
| OS | UG/KG | MT-SB17-8-10 | 240-13070-6 | NM | 7/10/2012 | 7/19/2012 | 7/23/2012 | 9 | 4 | 13 |
| OS | UG/KG | MT-SB17-0-2 | 240-13070-5 | NM | 7/10/2012 | 7/19/2012 | 7/23/2012 | 9 | 4 | 13 |
| OV | UG/KG | MT-SS18-0-2 | 240-13070-2 | NM | 7/12/2012 | 7/12/2012 | 7/17/2012 | 0 | 5 | 5 |

| SORT | UNITS | NSAMPLE | LAB_ID | QC_TYPE | SAMP_DATE | EXTR_DATE | ANAL_DATE | SMP_EXTR | EXTR_ANL | SMP_ANL |
|---|---|---|---|---|---|---|---|---|---|---|
| OV | UG/KG | MT-SB17-8-10 | 240-13070-6 | NM | 7/11/2012 | 7/11/2012 | 7/16/2012 | 0 | 5 | 5 |
| OV | UG/KG | MT-SB17-0-2 | 240-13070-5 | NM | 7/11/2012 | 7/11/2012 | 7/16/2012 | 0 | 5 | 5 |
| OV | UG/KG | MT-SS18-8-10 | 240-13070-3 | NM | 7/11/2012 | 7/11/2012 | 7/17/2012 | 0 | 6 | 6 |
| OV | UG/L | TB-071012 | 240-13070-1 | NM | 7/10/2012 | 7/13/2012 | 7/13/2012 | 3 | 0 | 3 |
| PCB | UG/KG | MT-SS18-0-2 | 240-13070-2 | NM | 7/10/2012 | 7/19/2012 | 7/23/2012 | 9 | 4 | 13 |
| PCB | UG/KG | MT-SS18-8-10 | 240-13070-3 | NM | 7/10/2012 | 7/19/2012 | 7/23/2012 | 9 | 4 | 13 |
| PCB | UG/KG | MT-SB17-8-10 | 240-13070-6 | NM | 7/10/2012 | 7/19/2012 | 7/23/2012 | 9 | 4 | 13 |
| PCB | UG/KG | MT-SB17-0-2 | 240-13070-5 | NM | 7/10/2012 | 7/19/2012 | 7/23/2012 | 9 | 4 | 13 |
| DRO | MG/KG | MT-SB17-0-2 | 240-13070-5 | NM | 7/10/2012 | 7/20/2012 | 7/26/2012 | 10 | 6 | 16 |
| DRO | MG/KG | MT-SS18-8-10 | 240-13070-3 | NM | 7/10/2012 | 7/20/2012 | 7/25/2012 | 10 | 5 | 15 |
| DRO | MG/KG | MT-SS18-0-2 | 240-13070-2 | NM | 7/10/2012 | 7/20/2012 | 7/25/2012 | 10 | 5 | 15 |
| DRO | MG/KG | MT-SB17-8-10 | 240-13070-6 | NM | 7/10/2012 | 7/20/2012 | 7/26/2012 | 10 | 6 | 16 |
| GRO | UG/KG | MT-SS18-8-10 | 240-13070-3 | NM | 7/10/2012 | 7/18/2012 | 7/18/2012 | 8 | 0 | 8 |
| GRO | UG/KG | MT-SS18-0-2 | 240-13070-2 | NM | 7/10/2012 | 7/18/2012 | 7/18/2012 | 8 | 0 | 8 |
| GRO | UG/KG | MT-SB17-8-10 | 240-13070-6 | NM | 7/10/2012 | 7/18/2012 | 7/18/2012 | 8 | 0 | 8 |
| GRO | UG/KG | MT-SB17-0-2 | 240-13070-5 | NM | 7/10/2012 | 7/18/2012 | 7/18/2012 | 8 | 0 | 8 |
| TCLPH | MG/L | MT-TCLP-8-10 | 240-13070-4 | NM | 7/10/2012 | 7/13/2012 | 7/23/2012 | 3 | 10 | 13 |
| TCLPM | MG/L | MT-TCLP-8-10 | 240-13070-4 | NM | 7/10/2012 | 7/13/2012 | 7/16/2012 | 3 | 3 | 6 |

# METHOD SUMMARY

Client: Tetra Tech, Inc

Job Number: 240-13070-1

| Description | Lab Location | Method | Preparation Method |
|---|---|---|---|
| **Matrix: Solid** | | | |
| Volatile Organic Compounds (GC/MS) | TAL NC | SW846 8260B | |
| Closed System Purge and Trap | TAL NC | | SW846 5035 |
| Volatile Organic Compounds (GC/MS) | TAL NC | SW846 8260B | |
| TCLP Extraction | TAL NC | | SW846 1311 |
| Purge and Trap | TAL NC | | SW846 5030B |
| Semivolatile Organic Compounds (GC/MS) | TAL NC | SW846 8270C | |
| TCLP Extraction | TAL NC | | SW846 1311 |
| Liquid-Liquid Extraction (Separatory Funnel) | TAL NC | | SW846 3510C |
| Semivolatile Organic Compounds (GC/MS) | TAL NC | SW846 8270D | |
| Soxhlet Extraction | TAL NC | | SW846 3540C |
| Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics) | TAL NC | SW846 8015C | |
| Purge and Trap | TAL NC | | SW846 5030B |
| Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics) | TAL NC | SW846 8015C | |
| Soxhlet Extraction | TAL NC | | SW846 3540C |
| Organochlorine Pesticides (GC) | TAL NC | SW846 8081A | |
| TCLP Extraction | TAL NC | | SW846 1311 |
| Liquid-Liquid Extraction (Separatory Funnel) | TAL NC | | SW846 3510C |
| Polychlorinated Biphenyls (PCBs) by Gas Chromatography | TAL NC | SW846 8082A | |
| Soxhlet Extraction | TAL NC | | SW846 3540C |
| Herbicides (GC) | TAL NC | SW846 8151A | |
| TCLP Extraction | TAL NC | | SW846 1311 |
| Extraction (Herbicides) | TAL NC | | SW846 8151A |
| Metals (ICP) | TAL NC | SW846 6010B | |
| TCLP Extraction | TAL NC | | SW846 1311 |
| Preparation, Total Metals | TAL NC | | SW846 3010A |
| Metals (ICP) | TAL NC | SW846 6010C | |
| Preparation, Metals | TAL NC | | SW846 3050B |
| Mercury (CVAA) | TAL NC | SW846 7470A | |
| TCLP Extraction | TAL NC | | SW846 1311 |
| Preparation, Mercury | TAL NC | | SW846 7470A |
| Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique) | TAL NC | SW846 7471B | |
| Preparation, Mercury | TAL NC | | SW846 7471B |
| Percent Moisture | TAL NC | EPA Moisture | |
| **Matrix: Water** | | | |
| Volatile Organic Compounds (GC/MS) | TAL NC | SW846 8260B | |
| Purge and Trap | TAL NC | | SW846 5030B |

**Lab References:**

TAL NC = TestAmerica Canton

# METHOD SUMMARY

Client: Tetra Tech, Inc

Job Number: 240-13070-1

| Description | Lab Location | Method | Preparation Method |
|---|---|---|---|

**Method References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

COVER PAGE
METALS

Lab Name: TestAmerica Canton Job Number: 240-13070-1

SDG No.:

Project: LM MSA Main Terminal Phase II Investigat

| Client Sample ID | Lab Sample ID |
|---|---|
| MT-SS18-0-2 | 240-13070-2 |
| MT-SS18-8-10 | 240-13070-3 |
| MT-TCLP-8-10 | 240-13070-4 |
| MT-SB17-0-2 | 240-13070-5 |
| MT-SB17-8-10 | 240-13070-6 |

Comments:

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

ICV Source: MTTRICV_00014 Concentration Units: ug/L

CCV Source: MTTRCCV_00028

| Analyte | ICV 240-51051/4 07/16/2012 11:10 | | | | CCV 240-51051/50 07/16/2012 15:39 | | | | CCV 240-51051/62 07/16/2012 16:47 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Antimony** | 250 | | 250 | 100 | 467 | | 500 | 93 | 465 | | 500 | 93 |
| **Arsenic** | 245 | | 250 | 98 | 475 | | 500 | 95 | 470 | | 500 | 94 |
| **Barium** | 1020 | | 1000 | 102 | 1870 | | 2000 | 93 | 1860 | | 2000 | 93 |
| **Beryllium** | 1040 | | 1000 | 104 | 1990 | | 2000 | 100 | 1980 | | 2000 | 99 |
| **Cadmium** | 253 | | 250 | 101 | 484 | | 500 | 97 | 484 | | 500 | 97 |
| **Chromium** | 1020 | | 1000 | 102 | 1970 | | 2000 | 98 | 1950 | | 2000 | 98 |
| **Cobalt** | 1020 | | 1000 | 102 | 1950 | | 2000 | 98 | 1940 | | 2000 | 97 |
| **Copper** | 1010 | | 1000 | 101 | 1990 | | 2000 | 99 | 1990 | | 2000 | 100 |
| **Lead** | 247 | | 250 | 99 | 477 | | 500 | 95 | 472 | | 500 | 94 |
| **Molybdenum** | 997 | | 1000 | 100 | 2010 | | 2000 | 100 | 2020 | | 2000 | 101 |
| **Nickel** | 1020 | | 1000 | 102 | 1960 | | 2000 | 98 | 2040 | | 2000 | 102 |
| **Selenium** | 247 | | 250 | 99 | 477 | | 500 | 95 | 472 | | 500 | 94 |
| **Silver** | 494 | | 500 | 99 | 1000 | | 1000 | 100 | 1020 | | 1000 | 102 |
| **Thallium** | 498 | | 500 | 100 | 960 | | 1000 | 96 | 954 | | 1000 | 95 |
| **Vanadium** | 1000 | | 1000 | 100 | 1890 | | 2000 | 94 | 1830 | | 2000 | 92 |
| **Zinc** | 1040 | | 1000 | 104 | 1990 | | 2000 | 100 | 2010 | | 2000 | 100 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

ICV Source: MTTRICV_00014 Concentration Units: ug/L

CCV Source: MTTRCCV_00028

| Analyte | CCV 240-51051/74 07/16/2012 17:54 | | | | CCV 240-51051/78 07/16/2012 18:17 | | | | CCV 240-51051/102 07/17/2012 08:28 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Antimony** | 458 | | 500 | 92 | 461 | | 500 | 92 | 497 | | 500 | 99 |
| **Arsenic** | 470 | | 500 | 94 | 466 | | 500 | 93 | 488 | | 500 | 98 |
| **Barium** | 1820 | | 2000 | 91 | 1820 | | 2000 | 91 | 1950 | | 2000 | 97 |
| **Beryllium** | 1970 | | 2000 | 99 | 1970 | | 2000 | 99 | 2000 | | 2000 | 100 |
| **Cadmium** | 485 | | 500 | 97 | 485 | | 500 | 97 | 484 | | 500 | 97 |
| **Chromium** | 1940 | | 2000 | 97 | 1940 | | 2000 | 97 | 2000 | | 2000 | 100 |
| **Cobalt** | 1940 | | 2000 | 97 | 1940 | | 2000 | 97 | 2020 | | 2000 | 101 |
| **Copper** | 1970 | | 2000 | 98 | 1970 | | 2000 | 99 | 2040 | | 2000 | 102 |
| **Lead** | 471 | | 500 | 94 | 470 | | 500 | 94 | 485 | | 500 | 97 |
| **Molybdenum** | 2030 | | 2000 | 101 | 2030 | | 2000 | 101 | 2020 | | 2000 | 101 |
| **Nickel** | 2100 | | 2000 | 105 | 2120 | | 2000 | 106 | 2030 | | 2000 | 102 |
| **Selenium** | 472 | | 500 | 94 | 473 | | 500 | 95 | 486 | | 500 | 97 |
| **Silver** | 1020 | | 1000 | 102 | 1020 | | 1000 | 102 | 984 | | 1000 | 98 |
| **Thallium** | 942 | | 1000 | 94 | 938 | | 1000 | 94 | 984 | | 1000 | 98 |
| **Vanadium** | 1790 | | 2000 | 90 | 1780 | | 2000 | 89 | 2000 | | 2000 | 100 |
| **Zinc** | 2010 | | 2000 | 101 | 2020 | | 2000 | 101 | 2050 | | 2000 | 102 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

ICV Source: MTTRICV_00014 Concentration Units: ug/L

CCV Source: MTTRCCV_00028

| Analyte | CCV 240-51051/114 07/17/2012 09:39 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Antimony** | 509 | | 500 | 102 | | | | | | | | |
| **Arsenic** | 484 | | 500 | 97 | | | | | | | | |
| **Barium** | 1940 | | 2000 | 97 | | | | | | | | |
| **Beryllium** | 2000 | | 2000 | 100 | | | | | | | | |
| **Cadmium** | 486 | | 500 | 97 | | | | | | | | |
| **Chromium** | 2000 | | 2000 | 100 | | | | | | | | |
| **Cobalt** | 2010 | | 2000 | 100 | | | | | | | | |
| **Copper** | 2030 | | 2000 | 101 | | | | | | | | |
| **Lead** | 484 | | 500 | 97 | | | | | | | | |
| **Molybdenum** | 2010 | | 2000 | 100 | | | | | | | | |
| **Nickel** | 2010 | | 2000 | 100 | | | | | | | | |
| **Selenium** | 485 | | 500 | 97 | | | | | | | | |
| **Silver** | 984 | | 1000 | 98 | | | | | | | | |
| **Thallium** | 990 | | 1000 | 99 | | | | | | | | |
| **Vanadium** | 1990 | | 2000 | 99 | | | | | | | | |
| **Zinc** | 2040 | | 2000 | 102 | | | | | | | | |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

ICV Source: MTTRICV_00014 Concentration Units: ug/L

CCV Source: MTTRCCV_00028

| Analyte | ICV 240-50963/5 07/16/2012 07:04 | | | | CCV 240-50963/90 07/16/2012 15:55 | | | | CCV 240-50963/102 07/16/2012 17:08 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Arsenic** | 252 | J | 250 | 101 | 531 | | 500 | 106 | 539 | | 500 | 108 |
| **Barium** | 1080 | J | 1000 | 108 | 2120 | J | 2000 | 106 | 2170 | J | 2000 | 109 |
| **Cadmium** | 256 | | 250 | 102 | 503 | | 500 | 101 | 517 | | 500 | 103 |
| **Chromium** | 1020 | | 1000 | 102 | 2020 | | 2000 | 101 | 2030 | | 2000 | 102 |
| **Lead** | 256 | J | 250 | 103 | 498 | J | 500 | 100 | 514 | | 500 | 103 |
| **Selenium** | 255 | | 250 | 102 | 513 | | 500 | 103 | 523 | | 500 | 105 |
| **Silver** | 504 | | 500 | 101 | 1060 | | 1000 | 106 | 1070 | | 1000 | 107 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

ICV Source: MTTRICV_00014 Concentration Units: ug/L

CCV Source: MTTRCCV_00028

| Analyte | CCV 240-50963/114 07/16/2012 18:22 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Arsenic** | 558 | | 500 | 112 | | | | | | | | |
| **Barium** | 2180 | J | 2000 | 109 | | | | | | | | |
| **Cadmium** | 511 | | 500 | 102 | | | | | | | | |
| **Chromium** | 2050 | | 2000 | 103 | | | | | | | | |
| **Lead** | 515 | | 500 | 103 | | | | | | | | |
| **Selenium** | 538 | | 500 | 108 | | | | | | | | |
| **Silver** | 1130 | | 1000 | 113 | | | | | | | | |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

ICV Source: MTHGICVW_00340 Concentration Units: ug/L

CCV Source: MTHGCALW_00222

| Analyte | ICV 240-50896/7-A 07/16/2012 16:05 | | | | CCVL 240-50896/10-A 07/16/2012 16:10 | | | | CCV 240-50896/12-A 07/16/2012 17:22 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Mercury** | 2.55 | | 2.50 | 102 | 5.23 | | 5.00 | 105 | 5.32 | | 5.00 | 106 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

ICV Source: MTHGICVW_00340 Concentration Units: ug/L

CCV Source: MTHGCALW_00222

| Analyte | CCV 240-50896/12-A 07/16/2012 17:38 | | | | CCV 240-50896/12-A 07/16/2012 17:49 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Mercury** | 5.24 | | 5.00 | 105 | 5.31 | | 5.00 | 106 | | | | |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

ICV Source: MTHGICVW_00340 Concentration Units: ug/L

CCV Source: MTHGCALW_00222

| Analyte | ICV 240-50907/7-A 07/13/2012 12:08 | | | | CCV 240-50907/11-A 07/13/2012 13:12 | | | | CCV 240-50907/11-A 07/13/2012 13:36 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Mercury** | 2.41 | | 2.50 | 97 | 5.22 | | 5.00 | 104 | 5.36 | | 5.00 | 107 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

ICV Source: MTHGICVW_00340 Concentration Units: ug/L

CCV Source: MTHGCALW_00222

| Analyte | CCV 240-50907/11-A 07/13/2012 14:00 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Mercury** | 5.34 | | 5.00 | 107 | | | | | | | | |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Method: 6010B Instrument ID: I6

Lab Sample ID: CRI 240-50963/7 Concentration Units: ug/L

CRQL Check Standard Source: MTTRCRIW_00008

| Analyte | CRQL Check Standard | | | | |
|---|---|---|---|---|---|
| | True | Found | Qualifiers | %R(1) | Limits |
| Arsenic | 15.0 | 15.3 | J | 102 | 50-150 |
| Barium | 10.0 | 10.3 | J | 103 | 50-150 |
| Cadmium | 5.00 | 5.27 | J | 105 | 50-150 |
| Chromium | 5.00 | 5.17 | J | 103 | 50-150 |
| Lead | 10.0 | 10.4 | J | 104 | 50-150 |
| Selenium | 20.0 | 16.5 | J | 82 | 50-150 |
| Silver | 5.00 | 5.20 | J | 104 | 50-150 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Method: 6010C Instrument ID: I5

Lab Sample ID: CRI 240-51051/7 Concentration Units: ug/L

CRQL Check Standard Source: MTTRCRIC_00007

| Analyte | CRQL Check Standard | | | | |
|---|---|---|---|---|---|
| | True | Found | Qualifiers | %R(1) | Limits |
| Antimony | 20.0 | 18.9 | J | 95 | 70-130 |
| Arsenic | 15.0 | 11.9 | J | 79 | 70-130 |
| Barium | 200 | 198 | J | 99 | 70-130 |
| Beryllium | 5.00 | 5.03 | | 101 | 70-130 |
| Cadmium | 5.00 | 4.97 | J | 99 | 70-130 |
| Chromium | 10.0 | 9.02 | J | 90 | 70-130 |
| Cobalt | 10.0 | 8.83 | J | 88 | 70-130 |
| Copper | 20.0 | 19.2 | J | 96 | 70-130 |
| Lead | 10.0 | 8.97 | J | 90 | 70-130 |
| Molybdenum | 40.0 | 37.5 | J | 94 | 70-130 |
| Nickel | 40.0 | 39.3 | J | 98 | 70-130 |
| Selenium | 20.0 | 20.5 | | 103 | 70-130 |
| Silver | 10.0 | 8.43 | J | 84 | 70-130 |
| Thallium | 20.0 | 14.5 | J | 72 | 70-130 |
| Vanadium | 10.0 | 10.4 | | 104 | 70-130 |
| Zinc | 50.0 | 64.0 | | 128 | 70-130 |

Lab Sample ID: CRI 240-51051/107 Concentration Units: ug/L

CRQL Check Standard Source: MTTRCRIC_00007

| Analyte | CRQL Check Standard | | | | |
|---|---|---|---|---|---|
| | True | Found | Qualifiers | %R(1) | Limits |
| Antimony | 20.0 | 20.9 | | 104 | 70-130 |
| Arsenic | 15.0 | 14.6 | J | 97 | 70-130 |
| Barium | 200 | 201 | | 100 | 70-130 |
| Beryllium | 5.00 | 5.02 | | 100 | 70-130 |
| Cadmium | 5.00 | 5.18 | | 104 | 70-130 |
| Chromium | 10.0 | 9.70 | J | 97 | 70-130 |
| Cobalt | 10.0 | 8.98 | J | 90 | 70-130 |
| Copper | 20.0 | 21.0 | J | 105 | 70-130 |
| Lead | 10.0 | 9.12 | J | 91 | 70-130 |
| Molybdenum | 40.0 | 38.5 | J | 96 | 70-130 |
| Nickel | 40.0 | 39.1 | J | 98 | 70-130 |
| Selenium | 20.0 | 20.4 | | 102 | 70-130 |
| Silver | 10.0 | 8.47 | J | 85 | 70-130 |
| Thallium | 20.0 | 17.0 | J | 85 | 70-130 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Method: 6010C Instrument ID: I5

Lab Sample ID: CRI 240-51051/107 Concentration Units: ug/L

CRQL Check Standard Source: MTTRCRIC_00007

| Analyte | CRQL Check Standard | | | | |
|---|---|---|---|---|---|
| | True | Found | Qualifiers | %R(1) | Limits |
| Vanadium | 10.0 | 11.1 | | 111 | 70-130 |
| Zinc | 50.0 | 60.1 | | 120 | 70-130 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Method: 7470A Instrument ID: H1

Lab Sample ID: CRA 240-50896/9-A Concentration Units: ug/L

CRQL Check Standard Source: MTHGCALW_00222

| Analyte | CRQL Check Standard | | | | |
|---|---|---|---|---|---|
| | True | Found | Qualifiers | %R(1) | Limits |
| Mercury | 0.200 | 0.234 | J | 117 | 50-150 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Method: 7471B Instrument ID: H4

Lab Sample ID: CRA 240-50907/9-B Concentration Units: ug/L

CRQL Check Standard Source: MTHGCALW_00222

| Analyte | CRQL Check Standard | | | | |
|---|---|---|---|---|---|
| | True | Found | Qualifiers | %R(1) | Limits |
| Mercury | 0.200 | 0.169 | J | 84 | 50-150 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Concentration Units: ug/L

| Analyte | RL | ICBIS 240-50963/6 07/16/2012 07:10 | | CCB 240-50963/91 07/16/2012 16:01 | | CCB 240-50963/103 07/16/2012 17:14 | | CCB 240-50963/115 07/16/2012 18:28 | |
|---|---|---|---|---|---|---|---|---|---|
| | | Found | C | Found | C | Found | C | Found | C |
| **Arsenic** | 500 | 500 | U | 500 | U | 500 | U | 500 | U |
| **Barium** | 10000 | 10000 | U | 10000 | U | 10000 | U | 10000 | U |
| **Cadmium** | 100 | 100 | U | 100 | U | 100 | U | 100 | U |
| **Chromium** | 500 | 500 | U | 2.23 | J | 500 | U | 500 | U |
| **Lead** | 500 | 500 | U | 2.60 | J | 2.73 | J | 3.83 | J |
| **Selenium** | 250 | 250 | U | 250 | U | 250 | U | 4.40 | J |
| **Silver** | 500 | 500 | U | 500 | U | 500 | U | 500 | U |

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Concentration Units: ug/L

| Analyte | RL | ICBIS 240-51051/5 07/16/2012 11:16 | | CCB 240-51051/51 07/16/2012 15:44 | | CCB 240-51051/63 07/16/2012 16:52 | | CCB 240-51051/75 07/16/2012 18:00 | |
|---|---|---|---|---|---|---|---|---|---|
| | | Found | C | Found | C | Found | C | Found | C |
| **Antimony** | 20 | 20 | U | 2.75 | J | 2.38 | J | 20 | U |
| **Arsenic** | 15 | 15 | U | 15 | U | 15 | U | 15 | U |
| **Barium** | 200 | 200 | U | 200 | U | 200 | U | 200 | U |
| **Beryllium** | 5.0 | 5.0 | U | 0.655 | J | 0.835 | J | 0.963 | J |
| **Cadmium** | 5.0 | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| **Chromium** | 10 | 10 | U | 10 | U | 10 | U | 10 | U |
| **Cobalt** | 10 | 10 | U | 10 | U | 10 | U | 10 | U |
| **Copper** | 25 | 25 | U | 25 | U | 25 | U | 25 | U |
| **Lead** | 10 | 10 | U | 10 | U | 10 | U | 10 | U |
| **Molybdenum** | 40 | 1.90 | J | 2.94 | J | 2.75 | J | 2.11 | J |
| **Nickel** | 40 | 40 | U | 40 | U | 40 | U | 40 | U |
| **Selenium** | 20 | 20 | U | 20 | U | 20 | U | 20 | U |
| **Silver** | 10 | 10 | U | 10 | U | 10 | U | 10 | U |
| **Thallium** | 20 | 20 | U | 20 | U | 20 | U | 20 | U |
| **Vanadium** | 10 | 1.08 | J | 1.48 | J | 1.06 | J | 1.31 | J |
| **Zinc** | 50 | 50 | U | 50 | U | 5.90 | J | 6.29 | J |

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Concentration Units: ug/L

| Analyte | RL | CCB 240-51051/79 07/16/2012 18:23 | | CCB 240-51051/103 07/17/2012 08:34 | | CCB 240-51051/115 07/17/2012 09:45 | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Found | C | Found | C | Found | C | Found | C |
| **Antimony** | 20 | 20 | U | 2.06 | J | 3.02 | J | | |
| **Arsenic** | 15 | 15 | U | 15 | U | 15 | U | | |
| **Barium** | 200 | 200 | U | 200 | U | 200 | U | | |
| **Beryllium** | 5.0 | 0.908 | J | 5.0 | U | 5.0 | U | | |
| **Cadmium** | 5.0 | 5.0 | U | 5.0 | U | 5.0 | U | | |
| **Chromium** | 10 | 10 | U | 10 | U | 10 | U | | |
| **Cobalt** | 10 | 10 | U | 10 | U | 10 | U | | |
| **Copper** | 25 | 25 | U | 25 | U | 25 | U | | |
| **Lead** | 10 | 10 | U | 10 | U | 10 | U | | |
| **Molybdenum** | 40 | 40 | U | 2.27 | J | 2.29 | J | | |
| **Nickel** | 40 | 40 | U | 40 | U | 40 | U | | |
| **Selenium** | 20 | 20 | U | 20 | U | 20 | U | | |
| **Silver** | 10 | 10 | U | 10 | U | 10 | U | | |
| **Thallium** | 20 | 20 | U | 20 | U | 20 | U | | |
| **Vanadium** | 10 | 1.20 | J | 1.19 | J | 1.30 | J | | |
| **Zinc** | 50 | 5.81 | J | 50 | U | 50 | U | | |

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Concentration Units: ug/L

| Analyte | RL | ICB 240-50896/8-A 07/16/2012 16:06 | | CCB 240-50896/11-A 07/16/2012 17:23 | | CCB 240-50896/11-A 07/16/2012 17:40 | | CCB 240-50896/11-A 07/16/2012 17:51 | |
|---|---|---|---|---|---|---|---|---|---|
| | | Found | C | Found | C | Found | C | Found | C |
| **Mercury** | 2.0 | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U |

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Concentration Units: ug/L

| Analyte | RL | ICB 240-50907/8-A 07/13/2012 12:10 | | CCB 240-50907/10-A 07/13/2012 13:14 | | CCB 240-50907/10-A 07/13/2012 13:39 | | CCB 240-50907/10-A 07/13/2012 14:02 | |
|---|---|---|---|---|---|---|---|---|---|
| | | Found | C | Found | C | Found | C | Found | C |
| **Mercury** | 0.60 | 0.60 | U | 0.60 | U | 0.60 | U | 0.60 | U |

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: MB 240-50701/2-A

Instrument Code: I6 Batch No.: 50963

| CAS No. | Analyte | Concentration | C | Q | Method |
|---|---|---|---|---|---|
| 7440-38-2 | Arsenic | 0.50 | U | | 6010B |
| 7440-39-3 | Barium | 10 | U | | 6010B |
| 7440-43-9 | Cadmium | 0.10 | U | | 6010B |
| 7440-47-3 | Chromium | 0.50 | U | | 6010B |
| 7439-92-1 | Lead | 0.50 | U | | 6010B |
| 7782-49-2 | Selenium | 0.25 | U | | 6010B |
| 7440-22-4 | Silver | 0.50 | U | | 6010B |

3-IN
METHOD BLANK
METALS - TCLP

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Concentration Units: mg/L  Lab Sample ID: LB 240-50668/1-D

Instrument Code: I6  Batch No.: 50963

| CAS No. | Analyte | Concentration | C | Q | Method |
|---|---|---|---|---|---|
| 7440-38-2 | Arsenic | 0.50 | U | | 6010B |
| 7440-39-3 | Barium | 0.00337 | J | | 6010B |
| 7440-43-9 | Cadmium | 0.10 | U | | 6010B |
| 7440-47-3 | Chromium | 0.50 | U | | 6010B |
| 7439-92-1 | Lead | 0.50 | U | | 6010B |
| 7782-49-2 | Selenium | 0.25 | U | | 6010B |
| 7440-22-4 | Silver | 0.50 | U | | 6010B |

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Concentration Units: mg/Kg  Lab Sample ID: MB 240-50598/1-A

Instrument Code: I5  Batch No.: 51051

| CAS No. | Analyte | Concentration | C | Q | Method |
|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 0.497 | J | | 6010C |
| 7440-38-2 | Arsenic | 1.5 | U | | 6010C |
| 7440-39-3 | Barium | 0.315 | J | | 6010C |
| 7440-41-7 | Beryllium | 0.0478 | J | | 6010C |
| 7440-43-9 | Cadmium | 0.50 | U | | 6010C |
| 7440-47-3 | Chromium | 1.0 | U | | 6010C |
| 7440-48-4 | Cobalt | 1.0 | U | | 6010C |
| 7440-50-8 | Copper | 2.5 | U | | 6010C |
| 7439-92-1 | Lead | 1.0 | U | | 6010C |
| 7439-98-7 | Molybdenum | 4.0 | U | | 6010C |
| 7440-02-0 | Nickel | 4.0 | U | | 6010C |
| 7782-49-2 | Selenium | 2.0 | U | | 6010C |
| 7440-22-4 | Silver | 1.0 | U | | 6010C |
| 7440-28-0 | Thallium | 2.0 | U | | 6010C |
| 7440-62-2 | Vanadium | 1.0 | U | | 6010C |
| 7440-66-6 | Zinc | 5.0 | U | | 6010C |

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: MB 240-50703/2-A

Instrument Code: H1 Batch No.: 51048

| CAS No. | Analyte | Concentration | C | Q | Method |
|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.0020 | U | | 7470A |

3-IN
METHOD BLANK
METALS - TCLP

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: LB 240-50668/1-E

Instrument Code: H1 Batch No.: 51048

| CAS No. | Analyte | Concentration | C | Q | Method |
|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.0020 | U | | 7470A |

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 240-50601/1-A

Instrument Code: H4 Batch No.: 50942

| CAS No. | Analyte | Concentration | C | Q | Method |
|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.10 | U | | 7471B |

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: ICSA 240-50963/9  Instrument ID: I6

Lab File ID: I60716A  ICS Source: MTTRICSAW_00013

Concentration Units: ug/L

| Analyte | True Solution A | Found Solution A | Percent Recovery |
|---|---|---|---|
| **Arsenic** | | **4.63** | |
| **Barium** | | **2.02** | |
| **Cadmium** | | **-0.949** | |
| **Chromium** | | **0.570** | |
| **Lead** | | **-1.74** | |
| **Selenium** | | **4.74** | |
| **Silver** | | **0.166** | |
| *Aluminum* | *500000* | *483644* | *97* |
| *Antimony* | | *-1.37* | |
| *Beryllium* | | *0.0696* | |
| *Boron* | | *-0.767* | |
| *Calcium* | *500000* | *476856* | *95* |
| *Cobalt* | | *-0.384* | |
| *Copper* | | *2.38* | |
| *Iron* | *200000* | *197267* | *99* |
| *Magnesium* | *500000* | *502417* | *100* |
| *Manganese* | | *2.41* | |
| *Molybdenum* | | *-1.73* | |
| *Nickel* | | *0.889* | |
| *Potassium* | | *203* | |
| *Sodium* | | *-116* | |
| *Thallium* | | *-4.92* | |
| *Tin* | | *2.41* | |
| *Vanadium* | | *0.176* | |
| *Zinc* | | *-1.25* | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: ICSAB 240-50963/10  Instrument ID: I6

Lab File ID: I60716A  ICS Source: MTTRICSABW_00009

Concentration Units: ug/L

| Analyte | True Solution AB | Found Solution AB | Percent Recovery |
|---|---|---|---|
| **Arsenic** | **1000** | **1004** | **100** |
| **Barium** | **500** | **546** | **109** |
| **Cadmium** | **1000** | **962** | **96** |
| **Chromium** | **500** | **489** | **98** |
| **Lead** | **1000** | **958** | **96** |
| **Selenium** | **1000** | **1000** | **100** |
| **Silver** | **1000** | **1051** | **105** |
| *Aluminum* | *500000* | *481790* | *96* |
| *Antimony* | *1000* | *1012* | *101* |
| *Beryllium* | *500* | *508* | *102* |
| *Boron* | *1000* | *1030* | *103* |
| *Calcium* | *500000* | *475372* | *95* |
| *Cobalt* | *500* | *477* | *95* |
| *Copper* | *500* | *523* | *105* |
| *Iron* | *200000* | *198044* | *99* |
| *Magnesium* | *500000* | *503903* | *101* |
| *Manganese* | *500* | *502* | *100* |
| *Molybdenum* | *1000* | *973* | *97* |
| *Nickel* | *1000* | *951* | *95* |
| *Potassium* | *10000* | *10751* | *108* |
| *Sodium* | *10000* | *10146* | *101* |
| *Thallium* | *1000* | *937* | *94* |
| *Tin* | *1000* | *979* | *98* |
| *Vanadium* | *500* | *492* | *98* |
| *Zinc* | *1000* | *1013* | *101* |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: ICSA 240-51051/10  Instrument ID: I5

Lab File ID: I50716B  ICS Source: MTTRICSAW_00013

Concentration Units: ug/L

| Analyte | True Solution A | Found Solution A | Percent Recovery |
|---|---|---|---|
| **Antimony** | | **2.18** | |
| **Arsenic** | | **1.34** | |
| **Barium** | | **2.11** | |
| **Beryllium** | | **0.113** | |
| **Cadmium** | | **-1.13** | |
| **Chromium** | | **3.03** | |
| **Cobalt** | | **-0.270** | |
| **Copper** | | **3.83** | |
| **Lead** | | **-2.04** | |
| **Molybdenum** | | **1.19** | |
| **Nickel** | | **3.30** | |
| **Selenium** | | **4.17** | |
| **Silver** | | **-0.0197** | |
| **Thallium** | | **5.20** | |
| **Vanadium** | | **-0.0500** | |
| **Zinc** | | **-0.157** | |
| *Aluminum* | *500000* | *490448* | *98* |
| *Boron* | | *-5.05* | |
| *Calcium* | *500000* | *480367* | *96* |
| *Iron* | *200000* | *193609* | *97* |
| *Magnesium* | *500000* | *517394* | *103* |
| *Manganese* | | *2.22* | |
| *Potassium* | | *188* | |
| *Sodium* | | *501* | |
| *Tin* | | *1.96* | |
| *Titanium* | | *-7.15* | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: ICSAB 240-51051/11  Instrument ID: I5

Lab File ID: I50716B  ICS Source: MTTRICSABW_00009

Concentration Units: ug/L

| Analyte | True Solution AB | Found Solution AB | Percent Recovery |
|---|---|---|---|
| **Antimony** | **1000** | **1009** | **101** |
| **Arsenic** | **1000** | **978** | **98** |
| **Barium** | **500** | **513** | **103** |
| **Beryllium** | **500** | **508** | **102** |
| **Cadmium** | **1000** | **951** | **95** |
| **Chromium** | **500** | **489** | **98** |
| **Cobalt** | **500** | **476** | **95** |
| **Copper** | **500** | **516** | **103** |
| **Lead** | **1000** | **944** | **94** |
| **Molybdenum** | **1000** | **983** | **98** |
| **Nickel** | **1000** | **960** | **96** |
| **Selenium** | **1000** | **966** | **97** |
| **Silver** | **1000** | **1048** | **105** |
| **Thallium** | **1000** | **969** | **97** |
| **Vanadium** | **500** | **482** | **96** |
| **Zinc** | **1000** | **1021** | **102** |
| *Aluminum* | *500000* | *489942* | *98* |
| *Boron* | *1000* | *983* | *98* |
| *Calcium* | *500000* | *480092* | *96* |
| *Iron* | *200000* | *192991* | *96* |
| *Magnesium* | *500000* | *517715* | *104* |
| *Manganese* | *500* | *493* | *99* |
| *Potassium* | *10000* | *11444* | *114* |
| *Sodium* | *10000* | *10896* | *109* |
| *Tin* | *1000* | *980* | *98* |
| *Titanium* | *1000* | *974* | *97* |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Sample not in SDG

Client ID: _____ Lab ID: 240-13043-H-2-B MS

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.: _____

Matrix: Solid Concentration Units: mg/Kg

% Solids: 83.8

| Analyte | SSR | C | Sample Result (SR) | C | Spike Added (SA) | %R | Control Limit %R | Q | Method |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 24.5 | | 2.2 | U | 56.3 | 44 | 75-125 | F | 6010C |
| Arsenic | 177 | | 6.2 | | 225 | 76 | 75-125 | | 6010C |
| Barium | 204 | | 13 | J | 225 | 85 | 75-125 | | 6010C |
| Beryllium | 6.18 | | 1.6 | | 5.63 | 81 | 75-125 | | 6010C |
| Cadmium | 4.44 | | 0.56 | U | 5.63 | 79 | 75-125 | | 6010C |
| Chromium | 39.5 | | 24 | | 22.5 | 69 | 75-125 | F | 6010C |
| Cobalt | 51.9 | | 7.5 | | 56.3 | 79 | 75-125 | | 6010C |
| Copper | 59.8 | | 33 | | 28.1 | 94 | 75-125 | | 6010C |
| Lead | 50.5 | | 6.7 | | 56.3 | 78 | 75-125 | | 6010C |
| Molybdenum | 91.4 | | 0.77 | J | 113 | 80 | 75-125 | | 6010C |
| Nickel | 73.2 | | 30 | | 56.3 | 77 | 75-125 | | 6010C |
| Selenium | 164 | | 2.2 | U | 225 | 73 | 75-125 | F | 6010C |
| Silver | 4.00 | | 1.1 | U | 5.63 | 71 | 75-125 | F | 6010C |
| Thallium | 175 | | 2.2 | U | 225 | 78 | 75-125 | | 6010C |
| Vanadium | 79.2 | | 43 | | 56.3 | 65 | 75-125 | F | 6010C |
| Zinc | 82.0 | | 38 | | 56.3 | 77 | 75-125 | | 6010C |

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Sample not in SDG

Client ID: Lab ID: 240-13043-H-2-E MS

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Solid Concentration Units: mg/Kg

% Solids: 83.8

| Analyte | SSR | C | Sample Result (SR) | C | Spike Added (SA) | %R | Control Limit %R | Q | Method |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.192 | | 0.12 | U | 0.192 | 100 | 11-192 | | 7471B |

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS - TCLP

Sample not in SDG

Client ID: _____ Lab ID: 240-12781-C-8-K MS

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.: _____

Matrix: Solid Concentration Units: mg/L

% Solids: _____

| Analyte | SSR | C | Sample Result (SR) | C | Spike Added (SA) | %R | Control Limit %R | Q | Method |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.00470 | | 0.0020 | U | 0.00500 | 94 | 50-150 | | 7470A |

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Sample not in SDG

Client ID: Lab ID: 240-13043-H-2-C MSD

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Solid Concentration Units: mg/Kg

% Solids: 83.8

| Analyte | (SDR) C | | Spike Added (SA) | %R | Control Limit %R | RPD | RPD Limit | Q | Method |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 24.8 | | 56.3 | 44 | 75-125 | 1 | 20 | F | 6010C |
| Arsenic | 178 | | 225 | 77 | 75-125 | 1 | 20 | | 6010C |
| Barium | 205 | | 225 | 85 | 75-125 | 0 | 20 | | 6010C |
| Beryllium | 6.32 | | 5.63 | 84 | 75-125 | 2 | 20 | | 6010C |
| Cadmium | 4.50 | | 5.63 | 80 | 75-125 | 2 | 20 | | 6010C |
| Chromium | 40.5 | | 22.5 | 73 | 75-125 | 2 | 20 | F | 6010C |
| Cobalt | 52.7 | | 56.3 | 80 | 75-125 | 2 | 20 | | 6010C |
| Copper | 65.6 | | 28.1 | 115 | 75-125 | 9 | 20 | | 6010C |
| Lead | 51.6 | | 56.3 | 80 | 75-125 | 2 | 20 | | 6010C |
| Molybdenum | 92.7 | | 113 | 82 | 75-125 | 1 | 20 | | 6010C |
| Nickel | 75.9 | | 56.3 | 82 | 75-125 | 4 | 20 | | 6010C |
| Selenium | 167 | | 225 | 74 | 75-125 | 2 | 20 | F | 6010C |
| Silver | 4.32 | | 5.63 | 77 | 75-125 | 8 | 20 | | 6010C |
| Thallium | 178 | | 225 | 79 | 75-125 | 2 | 20 | | 6010C |
| Vanadium | 82.5 | | 56.3 | 71 | 75-125 | 4 | 20 | F | 6010C |
| Zinc | 85.8 | | 56.3 | 84 | 75-125 | 5 | 20 | | 6010C |

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Sample not in SDG

Client ID: _____ Lab ID: 240-13043-H-2-F MSD

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.: _____

Matrix: Solid Concentration Units: mg/Kg

% Solids: 83.8

| Analyte | (SDR) C | | Spike Added (SA) | %R | Control Limit %R | RPD | RPD Limit | Q | Method |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.187 | | 0.192 | 97 | 11-192 | 2 | 20 | | 7471B |

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS - TCLP

Sample not in SDG

Client ID: _____ Lab ID: 240-12781-C-8-L MSD

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.: _____

Matrix: Solid Concentration Units: mg/L

% Solids: _____

| Analyte | (SDR) C | | Spike Added (SA) | %R | Control Limit %R | RPD | RPD Limit | Q | Method |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.00466 | | 0.00500 | 93 | 50-150 | 1 | 20 | | 7470A |

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VD - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Sample not in SDG

Client ID: _____ Lab ID: 240-13043-H-2-A PDS

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.: _____

Matrix: Solid Concentration Units: mg/Kg

| Analyte | SSR | C | Sample Result (SR) | C | Spike Added (SA) | %R | Control Limit %R | Q | Method |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 14.5 | | 2.2 | U | 16.7 | 87 | 80-120 | | 6010C |
| Chromium | 43.4 | | 24 | | 22.3 | 87 | 80-120 | | 6010C |
| Selenium | 35.7 | | 2.2 | U | 44.6 | 80 | 80-120 | | 6010C |
| Silver | 9.62 | | 1.1 | U | 11.2 | 86 | 80-120 | | 6010C |
| Vanadium | 46.6 | | 43 | | 5.58 | 68 | 80-120 | W | 6010C |

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VB - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 240-50701/3-A

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

Sample Matrix: Water  LCS Source: MTICP1_00017

| Analyte | Water(mg/L) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | True | Found | C | %R | Limits | | Q | Method |
| Arsenic | 2.00 | 2.24 | | 112 | 50 | 150 | | 6010B |
| Barium | 2.00 | 2.33 | J | 117 | 50 | 150 | | 6010B |
| Cadmium | 0.0500 | 0.0535 | J | 107 | 50 | 150 | | 6010B |
| Chromium | 0.200 | 0.207 | J | 103 | 50 | 150 | | 6010B |
| Lead | 0.500 | 0.527 | | 105 | 50 | 150 | | 6010B |
| Selenium | 2.00 | 2.21 | | 110 | 50 | 150 | | 6010B |
| Silver | 0.0500 | 0.0576 | J | 115 | 50 | 150 | | 6010B |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 240-50598/2-A

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

Sample Matrix: Solid  LCS Source: MTICP1_00017

| Analyte | Solid(mg/Kg) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | True | Found | C | %R | Limits | | Q | Method |
| Antimony | 50.0 | 47.5 | | 95 | 80 | 120 | | 6010C |
| Arsenic | 200 | 187 | | 93 | 80 | 120 | | 6010C |
| Barium | 200 | 194 | | 97 | 80 | 120 | | 6010C |
| Beryllium | 5.00 | 5.10 | | 102 | 80 | 120 | | 6010C |
| Cadmium | 5.00 | 5.04 | | 101 | 80 | 120 | | 6010C |
| Chromium | 20.0 | 20.4 | | 102 | 80 | 120 | | 6010C |
| Cobalt | 50.0 | 49.0 | | 98 | 80 | 120 | | 6010C |
| Copper | 25.0 | 25.1 | | 100 | 80 | 120 | | 6010C |
| Lead | 50.0 | 47.1 | | 94 | 80 | 120 | | 6010C |
| Molybdenum | 100 | 101 | | 101 | 80 | 120 | | 6010C |
| Nickel | 50.0 | 50.5 | | 101 | 80 | 120 | | 6010C |
| Selenium | 200 | 185 | | 92 | 80 | 120 | | 6010C |
| Silver | 5.00 | 5.78 | | 116 | 80 | 120 | | 6010C |
| Thallium | 200 | 192 | | 96 | 80 | 120 | | 6010C |
| Vanadium | 50.0 | 47.0 | | 94 | 80 | 120 | | 6010C |
| Zinc | 50.0 | 50.7 | | 101 | 80 | 120 | | 6010C |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 240-50703/3-A

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

Sample Matrix: Water  LCS Source: MTHGICVW_00339

| Analyte | Water(mg/L) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | True | Found | C | %R | Limits | | Q | Method |
| Mercury | 0.00500 | 0.00479 | | 96 | 50 | 150 | | 7470A |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 240-50601/2-A

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

Sample Matrix: Solid  LCS Source: MTHGICVW_00338

| Analyte | Solid(mg/Kg) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | True | Found | C | %R | Limits | | Q | Method |
| Mercury | 0.833 | 0.830 | | 100 | 73 | 121 | | 7471B |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Sample not in SDG

Lab ID: 240-13043-H-2-A SD ^5

SDG No:

Lab Name: TestAmerica Canton  Job No: 240-13070-1

Matrix: Solid  Concentration Units: mg/Kg

| Analyte | Initial Sample Result (I) | C | Serial Dilution Result (S) | C | % Difference | Q | Method |
|---|---|---|---|---|---|---|---|
| Antimony | 2.2 | U | 11 | U | NC | | 6010C |
| Arsenic | 6.2 | | 6.12 | J | NC | | 6010C |
| Barium | 13 | J | 14.3 | J | 9.7 | | 6010C |
| Beryllium | 1.6 | | 2.01 | J | NC | | 6010C |
| Cadmium | 0.56 | U | 2.8 | U | NC | | 6010C |
| Chromium | 24 | | 26.3 | | 9.7 | | 6010C |
| Cobalt | 7.5 | | 8.26 | | NC | | 6010C |
| Copper | 33 | | 36.2 | | NC | | 6010C |
| Lead | 6.7 | | 6.85 | | NC | | 6010C |
| Molybdenum | 0.77 | J | 22 | U | NC | | 6010C |
| Nickel | 30 | | 33.3 | | 12 | V | 6010C |
| Selenium | 2.2 | U | 11 | U | NC | | 6010C |
| Silver | 1.1 | U | 5.6 | U | NC | | 6010C |
| Thallium | 2.2 | U | 11 | U | NC | | 6010C |
| Vanadium | 43 | | 47.0 | | 9.8 | | 6010C |
| Zinc | 38 | | 43.7 | | NC | | 6010C |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS - TCLP

Sample not in SDG

Lab ID: 240-12781-C-8-G SD ^5

SDG No:

Lab Name: TestAmerica Canton  Job No: 240-13070-1

Matrix: Solid  Concentration Units: mg/L

| Analyte | Initial Sample Result (I) | C | Serial Dilution Result (S) | C | % Difference | Q | Method |
|---|---|---|---|---|---|---|---|
| Arsenic | 0.50 | U | 2.5 | U | NC | | 6010B |
| Barium | 1.2 | J | 1.17 | J | 0.25 | | 6010B |
| Cadmium | 0.017 | J | 0.0154 | J | NC | | 6010B |
| Chromium | 0.0024 | J | 2.5 | U | NC | | 6010B |
| Lead | 0.0060 | J | 2.5 | U | NC | | 6010B |
| Selenium | 0.0060 | J | 1.3 | U | NC | | 6010B |
| Silver | 0.50 | U | 2.5 | U | NC | | 6010B |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS - TCLP

Lab Name: TestAmerica Canton Job Number: 240-13070-1

SDG Number:

Matrix: Solid Instrument ID: I6

Method: 6010B MDL Date: 02/09/2010 07:14

Prep Method: 3010A

Leach Method: 1311

| Analyte | Wavelength/ Mass | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| Arsenic | 189.042 | 0.5 | 0.0032 |
| Barium | 455.403 | 10 | 0.00067 |
| Cadmium | 228.802 | 0.1 | 0.00066 |
| Chromium | 267.716 | 0.5 | 0.0022 |
| Lead | 220.353 | 0.5 | 0.0019 |
| Selenium | 196.090 | 0.25 | 0.0041 |
| Silver | 328.068 | 0.5 | 0.0022 |

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Canton  Job Number: 240-13070-1

SDG Number:

Matrix: Solid  Instrument ID: I5

Method: 6010C  MDL Date: 03/01/2011 14:59

Prep Method: 3050B

| Analyte | Wavelength/ Mass | RL (mg/Kg) | MDL (mg/Kg) |
|---|---|---|---|
| Antimony | 206.838 | 2 | 0.39 |
| Arsenic | 189.042 | 1.5 | 0.3 |
| Barium | 493.409 | 20 | 0.071 |
| Beryllium | 313.042 | 0.5 | 0.043 |
| Cadmium | 226.502 | 0.5 | 0.036 |
| Chromium | 267.716 | 1 | 0.2 |
| Cobalt | 228.616 | 1 | 0.16 |
| Copper | 324.753 | 2.5 | 0.74 |
| Lead | 220.353 | 1 | 0.19 |
| Molybdenum | 202.030 | 4 | 0.27 |
| Nickel | 231.604 | 4 | 0.27 |
| Selenium | 196.026 | 2 | 0.45 |
| Silver | 328.068 | 1 | 0.1 |
| Thallium | 190.864 | 2 | 0.55 |
| Vanadium | 292.402 | 1 | 0.12 |
| Zinc | 213.856 | 5 | 1 |

9-IN
DETECTION LIMITS
METALS - TCLP

Lab Name: TestAmerica Canton Job Number: 240-13070-1

SDG Number:

Matrix: Solid Instrument ID: H1

Method: 7470A MDL Date: 02/16/2010 09:34

Prep Method: 7470A

Leach Method: 1311

| Analyte | Wavelength/ Mass | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| Mercury | 253.7 | 0.002 | 0.00012 |

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Canton Job Number: 240-13070-1

SDG Number:

Matrix: Solid Instrument ID: H4

Method: 7471B MDL Date: 02/16/2010 09:48

Prep Method: 7471B

| Analyte | Wavelength/ Mass | RL (mg/Kg) | MDL (mg/Kg) |
|---|---|---|---|
| Mercury | 253.7 | 0.1 | 0.015 |

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Prep Method: 3050B

| Lab Sample ID | Preparation Date | Prep Batch | Initial Weight (g) | Initial Volume | Final Volume (mL) |
|---|---|---|---|---|---|
| MB 240-50598/1-A | 07/12/2012 09:59 | 50598 | 1.00 | | 100 |
| LCS 240-50598/2-A | 07/12/2012 09:59 | 50598 | 1.00 | | 100 |
| 240-13043-H-2-B MS | 07/12/2012 09:59 | 50598 | 1.06 | | 100 |
| 240-13043-H-2-C MSD | 07/12/2012 09:59 | 50598 | 1.06 | | 100 |
| 240-13070-2 SS1B-0.2 | 07/12/2012 09:59 | 50598 | 1.24 | | 100 |
| 240-13070-3 SS1B-8.0 | 07/12/2012 09:59 | 50598 | 1.04 | | 100 |
| 240-13070-5 SS1F-0.2 | 07/12/2012 09:59 | 50598 | 1.11 | | 100 |
| 240-13070-6 SS1F-6.0 | 07/12/2012 09:59 | 50598 | 1.19 | | 100 |

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Prep Method: 3010A

| Lab Sample ID | Preparation Date | Prep Batch | Initial Weight | Initial Volume (mL) | Final Volume (mL) |
|---|---|---|---|---|---|
| LB 240-50668/1-D | 07/13/2012 07:52 | 50701 | | 50 | 50 |
| MB 240-50701/2-A | 07/13/2012 07:52 | 50701 | | 50 | 50 |
| LCS 240-50701/3-A | 07/13/2012 07:52 | 50701 | | 50 | 50 |
| 240-13070-4 TCLP-8-10 | 07/13/2012 07:52 | 50701 | | 50 | 50 |

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Prep Method: 7471B

| Lab Sample ID | Preparation Date | Prep Batch | Initial Weight (g) | Initial Volume | Final Volume (mL) |
|---|---|---|---|---|---|
| MB 240-50601/1-A | 07/12/2012 13:30 | 50601 | 0.60 | | 100 |
| LCS 240-50601/2-A | 07/12/2012 13:30 | 50601 | 0.60 | | 100 |
| 240-13043-H-2-E MS | 07/12/2012 13:30 | 50601 | 0.62 | | 100 |
| 240-13043-H-2-F MSD | 07/12/2012 13:30 | 50601 | 0.62 | | 100 |
| 240-13070-2 | 07/12/2012 13:30 | 50601 | 0.62 | | 100 |
| 240-13070-3 | 07/12/2012 13:30 | 50601 | 0.58 | | 100 |
| 240-13070-5 | 07/12/2012 13:30 | 50601 | 0.63 | | 100 |
| 240-13070-6 | 07/12/2012 13:30 | 50601 | 0.58 | | 100 |

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Prep Method: 7470A

| Lab Sample ID | Preparation Date | Prep Batch | Initial Weight | Initial Volume (mL) | Final Volume (mL) |
|---|---|---|---|---|---|
| LB 240-50668/1-E | 07/13/2012 12:45 | 50703 | | 100 | 100 |
| MB 240-50703/2-A | 07/13/2012 12:45 | 50703 | | 100 | 100 |
| LCS 240-50703/3-A | 07/13/2012 12:45 | 50703 | | 100 | 100 |
| 240-12781-C-8-K MS | 07/13/2012 12:45 | 50703 | | 100 | 100 |
| 240-12781-C-8-L MSD | 07/13/2012 12:45 | 50703 | | 100 | 100 |
| 240-13070-4 | 07/13/2012 12:45 | 50703 | | 100 | 100 |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Instrument ID: I6 Method: 6010B

Start Date: 07/16/2012 06:42 End Date: 07/17/2012 05:46

| Lab Sample ID | D/F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Ag | As | Ba | Cd | Cr | Pb | Se | | | | | | | | | | | | | | | | |
| STD 240-50963/1 IC | | | 06:42 | X | X | X | X | X | X | X | | | | | | | | | | | | | | | | |
| CALSTD 240-50963/2 IC | | | 06:48 | X | X | X | X | X | X | X | | | | | | | | | | | | | | | | |
| CALSTD 240-50963/3 IC | | | 06:54 | X | X | X | X | X | X | X | | | | | | | | | | | | | | | | |
| CALSTD 240-50963/4 IC | | | 06:59 | X | X | X | X | X | X | X | | | | | | | | | | | | | | | | |
| ICV 240-50963/5 | 1 | | 07:04 | X | X | X | X | X | X | X | | | | | | | | | | | | | | | | |
| ICBIS 240-50963/6 | 1 | | 07:10 | X | X | X | X | X | X | X | | | | | | | | | | | | | | | | |
| CRI 240-50963/7 ✓ | 1 | | 07:16 | X | X | X | X | X | X | X | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 07:22 | | | | | | | | | | | | | | | | | | | | | | | |
| ICSA 240-50963/9 | 1 | | 07:32 | X | X | X | X | X | X | X | | | | | | | | | | | | | | | | |
| ICSAB 240-50963/10 | 1 | | 07:38 | X | X | X | X | X | X | X | | | | | | | | | | | | | | | | |
| CCV 240-50963/11 | | | 07:44 | | | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-50963/12 | | | 07:51 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 07:57 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:03 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:09 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:16 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:22 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:28 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:34 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:40 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:46 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:52 | | | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-50963/23 | | | 08:58 | | | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-50963/24 | | | 09:04 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:10 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:17 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:23 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:29 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:35 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:41 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:47 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:53 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:59 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:05 | | | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-50963/35 | | | 10:11 | | | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-50963/36 | | | 10:18 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:24 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:30 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:36 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:42 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:48 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:56 | | | | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Instrument ID: I6 Method: 6010B

Start Date: 07/16/2012 06:42 End Date: 07/17/2012 05:46

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Ag | As | Ba | Cd | Cr | Pb | Se | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:02 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:08 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:14 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:20 | | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-50963/47 | | | 11:26 | | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-50963/48 | | | 11:32 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:38 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:44 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:50 | | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-50963/52 | | | 11:58 | | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-50963/53 | | | 12:04 | | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-50963/54 | | | 12:15 | | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-50963/55 | | | 12:22 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:28 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:34 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:40 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:46 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:52 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:58 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:04 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:10 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:16 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:23 | | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-50963/66 | | | 13:29 | | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-50963/67 | | | 13:35 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:41 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:47 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:53 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:59 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:05 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:11 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:17 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:24 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:30 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:36 | | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-50963/78 | | | 14:42 | | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-50963/79 | | | 14:48 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:54 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:00 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:06 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:12 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:18 | | | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Instrument ID: I6 Method: 6010B

Start Date: 07/16/2012 06:42 End Date: 07/17/2012 05:46

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Ag | As | Ba | Cd | Cr | Pb | Se | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:25 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:31 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:37 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:43 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:49 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-50963/90 | 1 | | 15:55 | X | X | X | X | X | X | X | | | | | | | | | | | | | | |
| CCB 240-50963/91 | 1 | | 16:01 | X | X | X | X | X | X | X | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:07 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:13 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:20 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:26 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:32 | | | | | | | | | | | | | | | | | | | | | |
| LB 240-50668/1-D | 1 | P | 16:38 | X | X | X | X | X | X | X | | | | | | | | | | | | | | |
| MB 240-50701/2-A | 1 | T | 16:44 | X | X | X | X | X | X | X | | | | | | | | | | | | | | |
| LCS 240-50701/3-A | 1 | T | 16:50 | X | X | X | X | X | X | X | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:56 | | | | | | | | | | | | | | | | | | | | | |
| 240-12781-C-8-G SD ^5 | 5 | P | 17:02 | X | X | X | X | X | X | X | | | | | | | | | | | | | | |
| CCV 240-50963/102 | 1 | | 17:08 | X | X | X | X | X | X | X | | | | | | | | | | | | | | |
| CCB 240-50963/103 ✓ | 1 | | 17:14 | X | X | X | X | X | X | X | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:21 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:27 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:33 | | | | | | | | | | | | | | | | | | | | | |
| 240-13070-4 | 1 | P | 17:39 | X | X | X | X | X | X | X | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:45 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:51 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:57 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:03 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:09 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:16 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-50963/114 | 1 | | 18:22 | X | X | X | X | X | X | X | | | | | | | | | | | | | | |
| CCB 240-50963/115 ✓ | 1 | | 18:28 | X | X | X | X | X | X | X | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:34 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:40 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:46 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-50963/119 | | | 18:52 | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-50963/120 | | | 18:58 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-50963/121 | | | 05:00 | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-50963/122 | | | 05:10 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 05:16 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 05:27 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 05:33 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-50963/126 | | | 05:39 | | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Instrument ID: I6 Method: 6010B

Start Date: 07/16/2012 06:42 End Date: 07/17/2012 05:46

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Ag | As | Ba | Cd | Cr | Pb | Se | | | | | | | | | | | | | |
| CCB 240-50963/127 | | | 05:46 | | | | | | | | | | | | | | | | | | | | |

Prep Types

P = TCLP

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Instrument ID: I5 Method: 6010C

Start Date: 07/16/2012 10:55 End Date: 07/17/2012 10:25

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Ag | As | Ba | Be | Cd | Co | Cr | Cu | Mo | Ni | Pb | Sb | Se | Tl | V | Zn | | | | |
| STD1 240-51051/1 IC | | | 10:55 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| CALSTD 240-51051/2 IC | | | 11:01 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| CALSTD 240-51051/3 IC | | | 11:06 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| ICV 240-51051/4 | 1 | | 11:10 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| ICBIS 240-51051/5 | 1 | | 11:16 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| CRI 240-51051/6 | | | 11:22 | | | | | | | | | | | | | | | | | | | | |
| CRI 240-51051/7 | 1 | | 11:27 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| ZZZZZZ | | | 11:33 | | | | | | | | | | | | | | | | | | | | |
| ICSA 240-51051/9 | | | 11:39 | | | | | | | | | | | | | | | | | | | | |
| ICSA 240-51051/10 | 1 | | 11:45 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| ICSAB 240-51051/11 | 1 | | 11:51 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| CCV 240-51051/12 | | | 11:57 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-51051/13 | | | 12:02 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:08 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:14 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:19 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:25 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:31 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:36 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:42 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:48 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:53 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:59 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-51051/24 | | | 13:05 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-51051/25 | | | 13:10 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:16 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:22 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:27 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:33 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:39 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:44 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:50 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:56 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:01 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:07 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-51051/36 | | | 14:12 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-51051/37 | | | 14:18 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-51051/38 | | | 14:31 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-51051/39 | | | 14:36 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:42 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:48 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:53 | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Instrument ID: I5 Method: 6010C

Start Date: 07/16/2012 10:55 End Date: 07/17/2012 10:25

| Lab Sample ID | D/F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Ag | As | Ba | Be | Cd | Co | Cr | Cu | Mo | Ni | Pb | Sb | Se | Tl | V | Zn | | | | |
| ZZZZZZ | | | 14:59 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:05 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:10 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:16 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:22 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:27 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:33 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-51051/50 | 1 | | 15:39 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| CCB 240-51051/51 | 1 | | 15:44 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| ZZZZZZ | | | 15:50 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:56 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:01 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:07 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:13 | | | | | | | | | | | | | | | | | | | | |
| MB 240-50598/1-A | 1 | T | 16:18 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| LCS 240-50598/2-A | 1 | T | 16:24 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| ZZZZZZ | | | 16:30 | | | | | | | | | | | | | | | | | | | | |
| 240-13043-H-2-A SD ^5 | 5 | T | 16:35 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| 240-13043-H-2-B MS | 1 | T | 16:41 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| CCV 240-51051/62 | 1 | | 16:47 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| CCB 240-51051/63 | 1 | | 16:52 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| 240-13043-H-2-C MSD | 1 | T | 16:58 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| 240-13043-H-2-A PDS | 1 | T | 17:04 | X | | | | | | X | | | | | X | X | | X | | | | | |
| ZZZZZZ | | | 17:09 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:15 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:20 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:26 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:32 | | | | | | | | | | | | | | | | | | | | |
| 240-13070-2 | 1 | T | 17:37 | X | X | X | X | X | X | X | X | X | X | X | | | X | X | X | | | | |
| 240-13070-3 | 1 | T | 17:43 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| 240-13070-5 | 1 | T | 17:49 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| CCV 240-51051/74 | 1 | | 17:54 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| CCB 240-51051/75 | 1 | | 18:00 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| 240-13070-6 | 1 | T | 18:06 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | | | | |
| CRI 240-51051/77 | | | 18:11 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-51051/78 | 1 | | 18:17 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| CCB 240-51051/79 | 1 | | 18:23 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| CCV 240-51051/80 | | | 05:32 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-51051/81 | | | 05:38 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 05:44 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 05:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 05:55 | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Instrument ID: I5 Method: 6010C

Start Date: 07/16/2012 10:55 End Date: 07/17/2012 10:25

| Lab Sample ID | D/F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Ag | As | Ba | Be | Cd | Co | Cr | Cu | Mo | Ni | Pb | Sb | Se | Tl | V | Zn | | | | |
| ZZZZZZ | | | 06:01 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 06:06 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 06:12 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-51051/88 | | | 06:18 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-51051/89 | | | 06:23 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-51051/90 | | | 07:20 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-51051/91 | | | 07:26 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 07:31 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 07:37 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 07:43 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 07:48 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 07:54 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:00 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:05 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:11 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:17 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 08:22 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-51051/102 | 1 | | 08:28 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| CCB 240-51051/103 | 1 | | 08:34 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| ZZZZZZ | | | 08:43 | | | | | | | | | | | | | | | | | | | | |
| 240-13070-2 | 1 | T | 08:48 | | | | | | | | | | | | X | X | | | | | | | |
| 240-13070-6 | 1 | T | 08:54 | | | | | | | | | | | | | | | X | | | | | |
| CRI 240-51051/107 | 1 | | 09:00 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| ZZZZZZ | | | 09:05 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:11 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:17 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:22 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:28 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:34 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-51051/114 | 1 | | 09:39 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| CCB 240-51051/115 | 1 | | 09:45 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| ZZZZZZ | | | 09:51 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:56 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:02 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:08 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:13 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-51051/121 | | | 10:19 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-51051/122 | | | 10:25 | | | | | | | | | | | | | | | | | | | | |

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Instrument ID: H1 Method: 7470A

Start Date: 07/16/2012 15:57 End Date: 07/16/2012 17:51

| Lab Sample ID | D/F | Type | Time | Analytes |
|---|---|---|---|---|
| | | | | Hg |
| IC 240-50896/1-A | | | 15:57 | X |
| IC 240-50896/2-A | | | 15:58 | X |
| IC 240-50896/3-A | | | 15:59 | X |
| IC 240-50896/4-A | | | 16:01 | X |
| IC 240-50896/5-A | | | 16:02 | X |
| IC 240-50896/6-A | | | 16:03 | X |
| ICV 240-50896/7-A | 1 | | 16:05 | X |
| ICB 240-50896/8-A | 1 | | 16:06 | X |
| CRA 240-50896/9-A | 1 | | 16:08 | X |
| CCVL 240-50896/10-A | 1 | | 16:10 | X |
| CCB 240-50896/11-A | | | 16:11 | |
| ZZZZZZ | | | 16:12 | |
| ZZZZZZ | | | 16:14 | |
| ZZZZZZ | | | 16:15 | |
| ZZZZZZ | | | 16:17 | |
| ZZZZZZ | | | 16:18 | |
| ZZZZZZ | | | 16:19 | |
| ZZZZZZ | | | 16:21 | |
| ZZZZZZ | | | 16:22 | |
| ZZZZZZ | | | 16:23 | |
| ZZZZZZ | | | 16:25 | |
| CCV 240-50896/12-A | | | 16:26 | |
| CCB 240-50896/11-A | | | 16:28 | |
| ZZZZZZ | | | 16:29 | |
| ZZZZZZ | | | 16:31 | |
| ZZZZZZ | | | 16:32 | |
| ZZZZZZ | | | 16:34 | |
| ZZZZZZ | | | 16:35 | |
| ZZZZZZ | | | 16:37 | |
| ZZZZZZ | | | 16:38 | |
| ZZZZZZ | | | 16:40 | |
| ZZZZZZ | | | 16:41 | |
| ZZZZZZ | | | 16:44 | |
| CCV 240-50896/12-A | | | 16:45 | |
| CCB 240-50896/11-A | | | 16:47 | |
| ZZZZZZ | | | 16:48 | |
| ZZZZZZ | | | 16:50 | |
| ZZZZZZ | | | 16:51 | |
| ZZZZZZ | | | 16:53 | |
| ZZZZZZ | | | 16:54 | |
| ZZZZZZ | | | 16:56 | |
| ZZZZZZ | | | 16:57 | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Instrument ID: H1 Method: 7470A

Start Date: 07/16/2012 15:57 End Date: 07/16/2012 17:51

| Lab Sample ID | D/F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Hg | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:58 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:00 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:01 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-50896/12-A | | | 17:03 | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-50896/11-A | | | 17:04 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:06 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:07 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:09 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:10 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:12 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:13 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:15 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:16 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:18 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:19 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-50896/12-A | 1 | | 17:22 | X | | | | | | | | | | | | | | | | | | | | |
| CCB 240-50896/11-A | 1 | | 17:23 | X | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:25 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:26 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:28 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:29 | | | | | | | | | | | | | | | | | | | | | |
| LB 240-50668/1-E | 1 | P | 17:30 | X | | | | | | | | | | | | | | | | | | | | |
| MB 240-50703/2-A | 1 | T | 17:32 | X | | | | | | | | | | | | | | | | | | | | |
| LCS 240-50703/3-A | 1 | T | 17:33 | X | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:34 | | | | | | | | | | | | | | | | | | | | | |
| 240-12781-C-8-K MS | 1 | P | 17:36 | X | | | | | | | | | | | | | | | | | | | | |
| 240-12781-C-8-L MSD | 1 | P | 17:37 | X | | | | | | | | | | | | | | | | | | | | |
| CCV 240-50896/12-A | 1 | | 17:38 | X | | | | | | | | | | | | | | | | | | | | |
| CCB 240-50896/11-A | 1 | | 17:40 | X | | | | | | | | | | | | | | | | | | | | |
| 240-13070-4 | 1 | P | 17:41 | X | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:42 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:44 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:45 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:46 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:48 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-50896/12-A | 1 | | 17:49 | X | | | | | | | | | | | | | | | | | | | | |
| CCB 240-50896/11-A | 1 | | 17:51 | X | | | | | | | | | | | | | | | | | | | | |

Prep Types

P = TCLP

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Instrument ID: H4 Method: 7471B

Start Date: 07/13/2012 11:47 End Date: 07/13/2012 14:02

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Hg | | | | | | | | | | | | | | | | | | | | |
| IC 240-50907/1-A | | | 11:47 | X | | | | | | | | | | | | | | | | | | | | |
| IC 240-50907/2-A | | | 11:49 | X | | | | | | | | | | | | | | | | | | | | |
| IC 240-50907/3-A | | | 11:51 | X | | | | | | | | | | | | | | | | | | | | |
| IC 240-50907/4-A | | | 11:55 | X | | | | | | | | | | | | | | | | | | | | |
| IC 240-50907/5-A | | | 11:57 | X | | | | | | | | | | | | | | | | | | | | |
| IC 240-50907/6-A | | | 11:59 | X | | | | | | | | | | | | | | | | | | | | |
| ICV 240-50907/7-A | 1 | | 12:08 | X | | | | | | | | | | | | | | | | | | | | |
| ICB 240-50907/8-A | 1 | | 12:10 | X | | | | | | | | | | | | | | | | | | | | |
| CRA 240-50907/9-B | 1 | | 12:12 | X | | | | | | | | | | | | | | | | | | | | |
| CCV 240-50907/11-A | | | 12:23 | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-50907/10-A | | | 12:25 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:27 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:29 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:31 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:32 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:34 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:36 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:38 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:40 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:43 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:45 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-50907/11-A | | | 12:47 | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-50907/10-A | | | 12:50 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:52 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:54 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:56 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:58 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:00 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:02 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:04 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:06 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:08 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:10 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-50907/11-A | 1 | | 13:12 | X | | | | | | | | | | | | | | | | | | | | |
| CCB 240-50907/10-A | 1 | | 13:14 | X | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:16 | | | | | | | | | | | | | | | | | | | | | |
| MB 240-50601/1-A | 1 | T | 13:18 | X | | | | | | | | | | | | | | | | | | | | |
| LCS 240-50601/2-A | 1 | T | 13:20 | X | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:22 | | | | | | | | | | | | | | | | | | | | | |
| 240-13043-H-2-E MS | 1 | T | 13:24 | X | | | | | | | | | | | | | | | | | | | | |
| 240-13043-H-2-F MSD | 1 | T | 13:26 | X | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:28 | | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Instrument ID: H4 Method: 7471B

Start Date: 07/13/2012 11:47 End Date: 07/13/2012 14:02

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Hg | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:30 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:32 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:34 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-50907/11-A | 1 | | 13:36 | X | | | | | | | | | | | | | | | | | | | | |
| CCB 240-50907/10-A | 1 | | 13:39 | X | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:41 | | | | | | | | | | | | | | | | | | | | | |
| 240-13070-2 | 1 | T | 13:43 | X | | | | | | | | | | | | | | | | | | | | |
| 240-13070-3 | 1 | T | 13:47 | X | | | | | | | | | | | | | | | | | | | | |
| 240-13070-5 | 1 | T | 13:49 | X | | | | | | | | | | | | | | | | | | | | |
| 240-13070-6 | 1 | T | 13:51 | X | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:53 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:55 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:57 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-50907/11-A | 1 | | 14:00 | X | | | | | | | | | | | | | | | | | | | | |
| CCB 240-50907/10-A | 1 | | 14:02 | X | | | | | | | | | | | | | | | | | | | | |

Prep Types
T = Total/NA

Sample MT-5518-0-2 Arsenic 6.7 mg/kg

$\left(\frac{70.199\ ug}{L}\right)\left(\frac{0.1L}{1.24g}\right)\left(\frac{1}{.839}\right)\left(\frac{1g}{1000ug}\right)\left(\frac{1000mg}{kg}\right) = 6.748\ mg/kg$



Method: TOTAL Sample Name: 240-13070-h-2-a Operator: KLC
Run Time: 07/16/12 17:37 Filename: I50716B
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: N.CANTON Cust. Smpl. ID.: Cust. ID.:

| Elems | Ag | Al | As | B | Ba | Be |
|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | -4.666 | 33390. | 70.199 | 6.096 | 97.11 | 24.87 |
| SDev | 5.4 | 27.49 | 5.9489 | 1.36 | .1333 | .0295 |
| %RSD | 115.7 | .0823 | 8.4744 | 22.31 | .1373 | .1187 |

| Elems | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | 1817. | -.9674 | 73.29 | 304.9 | 375.3 | 280700. |
| SDev | 4.019 | .0562 | 4.348 | 1.119 | .0306 | 445.3 |
| %RSD | .2212 | 5.812 | 5.933 | .3671 | .0082 | .1586 |

| Elems | K | Mg | Mn | Mo | Na | Ni |
|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | 4576. | 1317. | 185.1 | 1.303 | -510.2 | 167.5 |
| SDev | 14.42 | 1.813 | .0084 | 2.402 | 133.7 | 4.249 |
| %RSD | .3151 | .1376 | .0045 | 184.4 | 26.21 | 2.537 |

| Elems | Se | Pb | Sb | Sn | Ti | Tl |
|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | -20.419 | 19.577 | 14.829 | 11.50 | 1281. | -8.5553 |
| SDev | 3.6562 | .90918 | 11.94 | .4802 | .8579 | 3.6544 |
| %RSD | 17.906 | 4.644 | 80.518 | 4.175 | .067 | 42.715 |

| Elems | V | Zn | 2203\1 | 2203\2 | 1960\1 | 1960\2 |
|---|---|---|---|---|---|---|
| Units | ppb | ppb | ppb | ppb | ppb | ppb |
| Avge | 833.5 | 211.4 | -3.7018 | 31.200 | -46.447 | -7.4244 |
| SDev | .485 | .1646 | 24.094 | 13.392 | 31.748 | 10.369 |
| %RSD | .0582 | .0778 | 650.87 | 42.923 | 68.353 | 139.66 |

| Elems | 2068/2 | 2068/1 | Y_3710 | *Y |
|---|---|---|---|---|
| Units | ppb | ppb | ppb | |
| Avge | -18.181 | 31.309 | 5.0000 | 14130 |
| SDev | 11.453 | 23.619 | 0 | 25.4558 |
| %RSD | 62.995 | 75.438 | 0 | .18015 |

**Tetra Tech** **INTERNAL CORRESPONDENCE**

**TO:** **T. AVANAVAGE** **DATE:** **NOVEMBER 29, 2012**

**FROM:** **A. COGNETTI** **COPIES:** **DV FILE/REV.1**

**SUBJECT:** **ORGANIC DATA VALIDATION- VOC / SVOC / PCB/ GRO / DRO / TCLP HERB/ TCLP PEST/ TCLPSVOC/ TCLP VOC**
**MARTIN STATE AIRPORT– FULL REVIEW**
**SAMPLE DELIVERY GROUP (SDG) 240-13070-1**

**SAMPLES:** 4/Soil/VOC/SVOC/PCB/GRO/DRO

MT-SS17-0-2 MT-SS17-8-10 MT-SS18-0-2 MT-SS18-8-10

1/Soil/TCLP HERB/TCLP PEST/TCLP VOC/TCLP SVOC

MT-TCLP-8-10

1/Aqueous/VOC

TB-071012

Overview

The sample set for Martin State Airport, SDG 240-13070-1 consists of five (5) soil environmental samples and a trip blank. Four (4) soil environmental samples were analyzed for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs) gasoline range organics (GRO), diesel range organics (DRO) and polychlorinated biphenyls. GRO is listed on the form 1s and EDD as total petroleum hydrocarbons (TPH) (C6-C10) and DRO as TPH (C10-C32). One (1) soil environmental sample was also analyzed for toxicity characteristic leaching procedure (TCLP) herbicides (HERB), pesticides (PEST), VOCs and SVOCs. The trip blank was analyzed for VOCs. There are no field duplicate pairs included in this SDG.

The samples were collected on July 10, 2012 and analyzed by Test America Laboratories, Inc. Analyses were conducted in accordance to SW-846 Methods 8260B, 8270C, 8270D, 8015C, 8081A, 8082A and 8151A analytical and reporting protocol.

Summary

The data contained in this SDG were validated with regard to the following parameters: data completeness, system performance, holding times, GC/MS tuning, initial / continuing calibrations, laboratory method blank results, surrogate spike/internal standard recoveries, laboratory control sample results, matrix spike/matrix spike duplicate results, compound identification, compound quantitation, and detection limits.

Areas of concern with respect to data quality are listed below.

Major Problems

- In the initial calibration of instrument A3UX14 on June 28, 2012 and the continuing calibration on July 16, 2012 @ 11:51 and July 17, 2012 @ 12:38, tert-butyl alcohol and vinyl acetate had relative response factors (RRFs) less than the 0.05 quality control limit. The nondetected tert-butyl alcohol and vinyl acetate results were qualified as rejected (UR) in the affected samples.

- In the initial calibration of instrument A3UX11 on June 19, 2012 and the continuing calibration on July 13, 2012 @ 11:51, tert-butyl alcohol had a RRF less than the 0.05 quality control limit. In addition, in the continuing calibration on July 13, 2012 @ 11:51, vinyl acetate had a RRF less than the 0.05 quality control limit. The nondetected tert-butyl alcohol and vinyl acetate results were qualified as rejected (UR) in the affected sample TB-071012.

- In the initial calibration of instrument A3UX12 on February 7, 2012 and the continuing calibration on July 13, 2012 @ 15:11, 2-butanone had a RRF less than the 0.05 quality control limit. The nondetected 2-butanone result in the affected TCLP sample MT-TCLP-8-10 was qualified as rejected (UR).

- Tentatively identified compounds (TICs) containing siloxane were qualified as rejected (R) in several samples. This compound is indicative of column bleed.

- The matrix spike/ matrix spike duplicate (MS/MSD) percent recoveries (%Rs) of hexachlorocyclopentadiene were 0% in sample MT-SS17-0-2. The nondetected hexachlorocyclopentadiene result in sample MT-SS17-0-2 was qualified as rejected (UR).

Minor Problems

- In the continuing calibration of instrument A3UX14 on July 16, 2012 @ 11:51, carbon disulfide, 4-methyl-2-pentanone and 1,2,3-trichlorobenzene had percent differences (%Ds) greater than the 20% quality control limit and less than 50%. The positive carbon disulfide result in the affected sample MT-SS17-0-2 was qualified as estimated (J). No action was taken on the nondetected carbon disulfide, 4-methyl-2-pentanone and 1,2,3-trichlorobenzene result in the affected samples MT-SS17-0-2 and MT-SS17-8-10.

- Contamination was detected in the laboratory method blank associated with batch 240-50900 analyzed on July 16, 2012 @ 12:56 on instrument A3UX14.

| Compound | Maximum Concentration (ug/kg) | Action Level (ug/kg) |
|---|---|---|
| 1,2,3-trichlorobenzene | 0.413 | 2.07 |
| 1,2,4-trichlorobenzene | 0.330 | 1.65 |
| Cis-1,3-dichloropropene | 0.54 | 2.7 |
| Naphthalene | 0.682 | 3.41 |
| n-butylbenzene | 0.446 | 2.23 |
| styrene | 0.164 | 0.82 |

An action level of 5X the maximum concentration of contaminant was established in order to evaluate samples for blank contamination. Sample aliquot, percent solids and dilution factors were taken into account when applying the action level. Positive results less than the action level were qualified as (B) in the affected samples MT-SS17-0-2 and MT-SS17-8-10.

- In the continuing calibration of instrument A3UX14 on July 17, 2012 @ 12:38, carbon disulfide, 2,2-dichloropropane, 4-methyl-2-pentanone, 1,2,4-trichlorobenzene and 1,2,3-trichlorobenzene had %Ds greater than the 20% quality control limit and less than 50%. The positive carbon disulfide result in sample MT-SS18-8-10 was qualified as estimated (J). No action was taken on the nondetected carbon disulfide, 2,2-dichloropropane, 4-methyl-2-pentanone, 1,2,4-trichlorobenzene and 1,2,3-trichlorobenzene results in the affected samples MT-SS18-0-2 and MT-SS18-8-10.

- Contamination was detected in the laboratory method blank associated with batch 240-51061 analyzed on July 17, 2012 @ 13:44 on instrument A3UX14.

| Compound | Maximum Concentration (ug/kg) | Action Level (ug/kg) |
|---|---|---|
| 1,2,3-trichlorobenzene | 0.427 | 2.14 |
| 1,2,3-trimethylbenzene | 0.13 | 0.65 |
| 1,2,4-trichlorobenzene | 0.361 | 1.81 |
| 1,3-dichlorobenzene | 0.214 | 1.07 |
| 1,4-dichlorobenzene | 0.239 | 1.20 |
| 2-hexanone | 0.669 | 3.35 |
| 2-butanone | 0.974 | 4.87 |
| m&p xylenes | 0.189 | 0.95 |
| Naphthalene | 0.491 | 2.46 |
| n-butylbenzene | 0.454 | 2.27 |
| styrene | 0.172 | 0.86 |
| trans-1,3-dichloropropene | 0.516 | 2.58 |
| total xylenes | 0.189 | 0.95 |

An action level of 5X the maximum concentration of contaminant was established in order to evaluate samples for blank contamination. Sample aliquot, percent solids and dilution factors were taken into account when applying the action level. Positive results less than the action level were qualified as (B) in the affected samples MT-SS18-0-2 and MT-SS18-8-10.

- TICs were qualified as presumptively present (NJ) in several samples.

- The continuing calibration %D for DRO (TPH C10-C32) exceeded the 20% quality control limit on July 25, 2012 @ 13:32. The nondetected DRO (TPH C10-C32) results were qualified as estimated (UJ) in samples MT-SS18-0-2 and MT-SS18-8-10.

- The continuing calibration %Ds for heptachlor exceeded the 15% quality control limit on both columns on July 16, 2012 @ 18:22. The nondetected heptachlor result in TCLP sample MT-TCLP-8-10 was qualified as estimated (UJ). In addition, the %Ds for gamma-BHC, heptachlor epoxide, endrin and methoxychlor exceeded quality control limits on column CLP-1. No action was taken on the nondetected gamma-BHC, heptachlor epoxide, endrin and methoxychlor results in the affected sample.

- The continuing calibration %Ds for heptachlor and endrin exceeded than 15% quality control limit on both columns on July 17, 2012 @ 4:06. The nondetected heptachlor and endrin results were qualified as estimated (UJ) in the affected TCLP sample MT-TCLP-8-10. In addition, the %Ds for gamma-BHC, heptachlor epoxide and methoxychlor exceeded quality control limits on column CLP-1. No action was taken on the nondetected gamma-BHC, heptachlor epoxide and methoxychlor results in the affected TCLP sample.

- Positive results reported below the reporting limit (RL) but above the method detection limit (MDL) for the organic analyses were qualified as estimated, (J).

Notes

The continuing calibration %Ds for vinyl acetate, 1,2-dibromo-3-chloropropane and naphthalene were greater than the 20% quality control limit and less than 50% on July 13, 2012 @ 11:51. No action was taken on the nondetected vinyl acetate, 1,2-dibromo-3-chloropropane and naphthalene results in the affected sample TB-071012.

The laboratory control sample (LCS) percent recoveries (%Rs) of 1,2-dichloroethane and 1,2-dichloropropane were greater than the upper quality control limit in batch 240-50627. No action was taken on the nondetected 1,2-dichloroethane and 1,2-dichloropropane results in the affected sample MT-SS18-0-2.

The LCS %Rs of 1,2-dichloroethane, 1,3-dichloropropane and chlorobenzene were greater than the upper quality control limit in batch 240-50900. No action was taken on the nondetected 1,2-dichloroethane, 1,3-dichloropropane and chlorobenzene results in the affected samples.

The LCS %Rs of 1,2-dichloropropane and 1,3-dichloropropane were greater than the upper quality control limit in batch 240-51061. No action was taken on the nondetected 1,2-dichloropropane and 1,3-dichloropropane results in the affected samples.

The MS/MSD %Rs of 2-chloroethyl vinyl ether were 0% in sample 240-13078. In addition, MSD %Rs of several targetanalytes were less than the lower quality control limit. No action was taken because this is not a sample in this SDG.

The MS/MSD %Rs of vinyl acetate were less than the lower quality control limit in sample 240-13217. In addition the relative percent difference (RPD) exceeded quality control limits. No action was taken because this is not a sample in this SDG.

The MS/MSD %Rs of vinyl acetate were less than the lower quality control limit in sample 240-13194. No action was taken because this is not a sample in this SDG.

The continuing calibration %Ds for 2,4-D and 2,4,5-TP exceeded the 15% quality control limit on July 23, 2012 @ 23:36 on column CLP-2. No action was taken on the nondetected 2,4-D and 2,4,5-TP results in the affected TCLP sample.

Nondetected results were reported to the MDL.

EXECUTIVE SUMMARY

**Laboratory Performance Issues:** Several VOC target analytes had RRFs less than quality control limits in the initial and continuing calibrations. Contamination was detected in the VOC laboratory method blanks. Continuing calibrations %D noncompliances were found in the VOC, DRO and TCLP Pest fractions.

**Other Factors Affecting Data Quality:** TICs were detected in several samples. The MS/MSD %Rs of hexachlorocyclopentadiene were 0% in sample MT-SS17-0-2.

The data for these analyses were reviewed with reference to the Region III EPA Functional Guidelines for Organic Data Validation (9/94). The text of this report has been formulated to address only those problem areas affecting data quality.

Tetra Tech
Ann Cognetti
Chemist/Data Validator

Tetra Tech
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:
Appendix A – Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
Appendix C – Support Documentation

# Appendix A

Qualified Analytical Results

**Qualifier Codes:**

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = ICP PDS Recovery Noncompliance; MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = RPD between columns/detectors >40% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 standard deviations is greater than sample activity
Z1 = Tentatively Identified Compound considered presumptively present
Z2 = Tentatively Identified Compound column bleed

MT-SS17-0-2 AC 11/29/12

| PROJ_NO: 04054 | NSAMPLE | ~~MT-SB17-0-2~~ | | | ~~MT-SB17-8-10~~ MT-SS17-8-10 | | | MT-SS18-0-2 | | | MT-SS18-8-10 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-13070-1 | LAB_ID | 240-13070-5 | | | 240-13070-6 | | | 240-13070-2 | | | 240-13070-3 | | |
| FRACTION: OV | SAMP_DATE | 7/11/2012 | | | 7/11/2012 | | | 7/12/2012 | | | 7/11/2012 | | |
| MEDIA: SOIL | QC_TYPE | NM | | | NM | | | NM | | | NM | | |
| | UNITS | UG/KG | | | UG/KG | | | UG/KG | | | UG/KG | | |
| | PCT_SOLIDS | 83.6 | | | 82.4 | | | 83.9 | | | 85.9 | | |
| | DUP_OF | | | | | | | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| 1,1,1,2-TETRACHLOROETHANE | | 0.52 | U | | 0.57 | U | | 10 | U | | 0.62 | U | |
| 1,1,1-TRICHLOROETHANE | | 0.47 | U | | 0.51 | U | | 24 | U | | 0.56 | U | |
| 1,1,2,2-TETRACHLOROETHANE | | 0.29 | U | | 0.31 | U | | 10 | U | | 0.34 | U | |
| 1,1,2-TRICHLOROTRIFLUOROETHANE | | 1.1 | U | | 1.2 | U | | 44 | U | | 1.3 | U | |
| 1,1-DICHLOROETHANE | | 0.3 | U | | 0.33 | U | | 19 | U | | 0.36 | U | |
| 1,1-DICHLOROETHENE | | 0.44 | U | | 0.48 | U | | 20 | U | | 0.52 | U | |
| 1,1-DICHLOROPROPENE | | 0.25 | U | | 0.28 | U | | 11 | U | | 0.3 | U | |
| 1,2,3-TRICHLOROBENZENE | | 0.32 | U | | 0.35 | U | | 11 | U | | 0.38 | U | |
| 1,2,3-TRICHLOROPROPANE | | 0.76 | U | | 0.83 | U | | 24 | U | | 0.9 | U | |
| 1,2,3-TRIMETHYLBENZENE | | 1.9 | J | P | 0.16 | U | | 33 | J | P | 3.9 | J | P |
| 1,2,4-TRICHLOROBENZENE | | 0.23 | U | | 0.25 | U | | 8.2 | U | | 0.27 | U | |
| 1,2,4-TRIMETHYLBENZENE | | 2.3 | J | P | 0.6 | U | | 34 | J | P | 0.65 | U | |
| 1,2-DIBROMO-3-CHLOROPROPANE | | 1.1 | U | | 1.2 | U | | 56 | U | | 1.3 | U | |
| 1,2-DIBROMOETHANE | | 0.42 | U | | 0.46 | U | | 11 | U | | 0.5 | U | |
| 1,2-DICHLOROBENZENE | | 0.3 | U | | 0.33 | U | | 9.6 | U | | 0.36 | U | |
| 1,2-DICHLOROETHANE | | 0.29 | U | | 0.31 | U | | 11 | U | | 0.34 | U | |
| 1,2-DICHLOROPROPANE | | 0.58 | U | | 0.63 | U | | 9.2 | U | | 0.69 | U | |
| 1,3,5-TRIMETHYLBENZENE | | 1.3 | NJ | Z1 | | | | 45 | NJ | Z1 | | | |
| 1,3-DICHLOROBENZENE | | 0.29 | U | | 0.32 | U | | 5.4 | U | | 0.35 | U | |
| 1,3-DICHLOROPROPANE | | 0.29 | U | | 0.31 | U | | 25 | U | | 0.34 | U | |
| 1,4-DICHLOROBENZENE | | 0.55 | U | | 0.61 | U | | 9 | U | | 0.66 | U | |
| 2,2-DICHLOROPROPANE | | 0.79 | U | | 0.86 | U | | 26 | U | | 0.94 | U | |
| 2-BUTANONE | | 4.1 | J | P | 3 | J | P | 48 | U | | 1.4 | U | |
| 2-CHLOROETHYL VINYL ETHER | | 1.2 | U | | 1.3 | U | | 48 | U | | 1.4 | U | |
| 2-CHLOROTOLUENE | | 0.34 | U | | 0.37 | U | | 10 | U | | 0.4 | U | |
| 2-HEXANONE | | 0.53 | U | | 0.58 | U | | 22 | U | | 0.63 | U | |
| 4-CHLOROTOLUENE | | 0.34 | U | | 0.38 | U | | 11 | U | | 0.41 | U | |
| 4-ISOPROPYLTOLUENE | | 1.3 | J | P | 0.19 | U | | 26 | J | P | 0.21 | U | |
| 4-METHYL-2-PENTANONE | | 0.45 | U | | 0.5 | U | | 54 | U | | 0.54 | U | |
| ACETONE | | 42 | | | 65 | | | 190 | U | | 6.3 | U | |
| BENZENE | | 0.19 | U | | 0.21 | U | | 13 | U | | 5.4 | | |
| BENZENE, 1-ETHYL-2,3-DIMETHYL- | | 4.6 | NJ | Z1 | | | | | | | | | |
| BENZENE, 1-METHYL-2-(1-METHYLETHYL)- | | 8.2 | NJ | Z1 | | | | | | | | | |
| BENZENE, 1-METHYL-4-(1-METHYLETHYL)- | | 5.1 | NJ | Z1 | | | | | | | | | |

MT-SS17-0-2 AC 11-29-12

| PROJ_NO: 04054 | NSAMPLE | ~~MT-SB17-0-2~~ | ~~MT-SB17-8-10~~ MT-SS17-8-10 | MT-SS18-0-2 | MT-SS18-8-10 |
|---|---|---|---|---|---|
| SDG: 240-13070-1 | LAB_ID | 240-13070-5 | 240-13070-6 | 240-13070-2 | 240-13070-3 |
| FRACTION: OV | SAMP_DATE | 7/11/2012 | 7/11/2012 | 7/12/2012 | 7/11/2012 |
| MEDIA: SOIL | QC_TYPE | NM | NM | NM | NM |
| | UNITS | UG/KG | UG/KG | UG/KG | UG/KG |
| | PCT_SOLIDS | 83.6 | 82.4 | 83.9 | 85.9 |
| | DUP_OF | | | | |

| PARAMETER | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BROMOBENZENE | 0.28 | U | | 0.3 | U | | 15 | U | | 0.33 | U | |
| BROMOCHLOROMETHANE | 0.6 | U | | 0.65 | U | | 15 | U | | 0.71 | U | |
| BROMODICHLOROMETHANE | 0.23 | U | | 0.26 | U | | 11 | U | | 0.28 | U | |
| BROMOFORM | 0.28 | U | | 0.3 | U | | 21 | U | | 0.33 | U | |
| BROMOMETHANE | 0.45 | U | | 0.5 | U | | 33 | U | | 0.54 | U | |
| BUTANE, 2,2,3,3-TETRAMETHYL- | | | | | | | | | | 26 | NJ | Z1 |
| BUTANE, 2-METHYL- | | | | | | | | | | 30 | NJ | Z1 |
| CARBON DISULFIDE | 3 | J | CP | 0.4 | U | | 13 | U | | 4.2 | J | CP |
| CARBON TETRACHLORIDE | 0.31 | U | | 0.34 | U | | 490 | | | 78 | | |
| CHLOROBENZENE | 0.28 | U | | 0.3 | U | | 7.2 | U | | 0.33 | U | |
| CHLORODIBROMOMETHANE | 0.46 | U | | 0.51 | U | | 13 | U | | 0.55 | U | |
| CHLOROETHANE | 0.72 | U | | 0.79 | U | | 68 | U | | 0.86 | U | |
| CHLOROFORM | 0.24 | U | | 0.27 | U | | 55 | J | P | 32 | | |
| CHLOROMETHANE | 0.34 | U | | 0.38 | U | | 16 | U | | 0.41 | U | |
| CIS-1,2-DICHLOROETHENE | 5.2 | | | 0.33 | U | | 7.7 | U | | 0.36 | U | |
| CIS-1,3-DICHLOROPROPENE | 0.29 | U | | 0.31 | U | | 8.9 | U | | 0.34 | U | |
| CYCLOHEXANE | | | | 0.32 | J | Z1 | 140 | J | Z1 | 16 | J | Z1 |
| CYCLOHEXANE, 1,1,3-TRIMETHYL- | 4.4 | NJ | Z1 | | | | | | | | | |
| CYCLOTETRASILOXANE, OCTAMETHYL- | 21 | R | Z2 | | | | | | | 11 | R | Z2 |
| DIBROMOMETHANE | 0.53 | U | | 0.58 | U | | 16 | U | | 0.63 | U | |
| DICHLORODIFLUOROMETHANE | 0.42 | U | | 0.46 | U | | 18 | U | | 0.5 | U | |
| DIISOPROPYL ETHER | 1.3 | U | | 1.4 | U | | 56 | U | | 1.5 | U | |
| ETHYL TERT-BUTYL ETHER | 0.18 | U | | 0.2 | U | | 0.25 | U | | 0.22 | U | |
| ETHYLBENZENE | 0.34 | J | P | 0.24 | U | | 27 | J | P | 0.26 | U | |
| HEXACHLOROBUTADIENE | 1 | U | | 1.1 | U | | 16 | U | | 1.2 | U | |
| HEXANE | 1.2 | J | Z1 | | | | | | | | | |
| HEXANE, 2,2,4-TRIMETHYL- | | | | | | | | | | 6.6 | NJ | Z1 |
| ISOPROPYLBENZENE | 0.24 | J | P | 0.15 | U | | 8.3 | J | P | 0.95 | J | P |
| M+P-XYLENES | 1 | U | | 1.1 | U | | 67 | J | P | 1.2 | U | |
| METHYL TERT-BUTYL ETHER | 0.36 | U | | 0.39 | U | | 8 | U | | 0.43 | U | |
| METHYLCYCLOHEXANE | 2.6 | J | Z1 | | | | 28 | J | Z1 | | | |
| METHYLENE CHLORIDE | 0.56 | U | | 0.62 | U | | 86 | U | | 0.71 | J | P |
| NAPHTHALENE | 0.62 | B | A | 0.17 | U | | 23 | J | P | 1.1 | B | A |
| N-BUTYLBENZENE | 0.19 | U | | 0.21 | U | | 9 | U | | 0.46 | B | A |
| N-PROPYLBENZENE | 0.34 | U | | 0.37 | U | | 16 | U | | 0.4 | U | |

MT-SS17-02 AC 11-29-12

| PROJ_NO: 04054 | NSAMPLE | ~~MT-SB17-0-2~~ | | | ~~MT-SB17-8-10~~ MT-SS17-8-10 | | | MT-SS18-0-2 | | | MT-SS18-8-10 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-13070-1 | LAB_ID | 240-13070-5 | | | 240-13070-6 | | | 240-13070-2 | | | 240-13070-3 | | |
| FRACTION: OV | SAMP_DATE | 7/11/2012 | | | 7/11/2012 | | | 7/12/2012 | | | 7/11/2012 | | |
| MEDIA: SOIL | QC_TYPE | NM | | | NM | | | NM | | | NM | | |
| | UNITS | UG/KG | | | UG/KG | | | UG/KG | | | UG/KG | | |
| | PCT_SOLIDS | 83.6 | | | 82.4 | | | 83.9 | | | 85.9 | | |
| | DUP_OF | | | | | | | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| O-XYLENE | | 0.46 | J | P | 0.32 | U | | 49 | J | P | 2.5 | J | P |
| PENTANE, 2,3,3-TRIMETHYL- | | | | | | | | | | | 13 | NJ | Z1 |
| PENTANE, 2,3,4-TRIMETHYL- | | | | | | | | | | | 9.7 | NJ | Z1 |
| PENTANE, 2,3-DIMETHYL- | | | | | | | | | | | 8.2 | NJ | Z1 |
| PENTANE, 2,4-DIMETHYL- | | | | | | | | | | | 8.8 | NJ | Z1 |
| PENTANE, 3-METHYL- | | | | | | | | | | | 11 | NJ | Z1 |
| SEC-BUTYLBENZENE | | 0.64 | J | P | 0.17 | U | | 5.3 | U | | 0.54 | J | P |
| STYRENE | | 0.13 | U | | 0.14 | U | | 6.3 | U | | 0.15 | U | |
| TERT-AMYL METHYL ETHER | | 0.31 | U | | 0.34 | U | | 0.41 | U | | 0.37 | U | |
| TERT-BUTYLBENZENE | | 0.24 | U | | 0.27 | U | | 7.3 | U | | 0.45 | J | P |
| TERTIARY-BUTYL ALCOHOL | | 6.4 | UR | C | 7 | UR | C | 270 | UR | C | 7.6 | UR | C |
| TETRACHLOROETHENE | | 0.44 | U | | 0.48 | U | | 13 | U | | 0.52 | U | |
| TETRAHYDROFURAN | | | | | | | | 80 | NJ | Z1 | | | |
| TOLUENE | | 0.49 | J | P | 0.28 | J | P | 19 | U | | 0.48 | J | P |
| TOTAL XYLENES | | 0.56 | U | | 0.62 | U | | 120 | J | P | 2.5 | J | P |
| TRANS-1,2-DICHLOROETHENE | | 0.34 | U | | 0.38 | U | | 10 | U | | 0.41 | U | |
| TRANS-1,3-DICHLOROPROPENE | | 0.45 | U | | 0.5 | U | | 22 | U | | 0.54 | U | |
| TRICHLOROETHENE | | 0.35 | U | | 0.39 | U | | 11 | U | | 0.42 | U | |
| TRICHLOROFLUOROMETHANE | | 0.29 | U | | 0.31 | U | | 18 | U | | 0.34 | U | |
| UNKNOWN | | 6.3 | NJ | Z1 | | | | | | | | | |
| VINYL ACETATE | | 0.21 | UR | C | 0.23 | UR | C | 26 | UR | C | 0.25 | UR | C |
| VINYL CHLORIDE | | 2.5 | J | P | 0.36 | U | | 20 | U | | 0.39 | U | |

| | | | | |
|---|---|---|---|---|
| **PROJ_NO: 04054** | NSAMPLE | TB-071012 | | |
| **SDG: 240-13070-1** | LAB_ID | 240-13070-1 | | |
| **FRACTION: OV** | SAMP_DATE | 7/10/2012 | | |
| **MEDIA: WATER** | QC_TYPE | NM | | |
| | UNITS | UG/L | | |
| | PCT_SOLIDS | 0.0 | | |
| | DUP_OF | | | |
| PARAMETER | | RESULT | VQL | QLCD |
| 1,1,1,2-TETRACHLOROETHANE | | 0.23 | U | |
| 1,1,1-TRICHLOROETHANE | | 0.22 | U | |
| 1,1,2,2-TETRACHLOROETHANE | | 0.18 | U | |
| 1,1,2-TRICHLOROTRIFLUOROETHANE | | 0.28 | U | |
| 1,1-DICHLOROETHANE | | 0.15 | U | |
| 1,1-DICHLOROETHENE | | 0.19 | U | |
| 1,1-DICHLOROPROPENE | | 0.13 | U | |
| 1,2,3-TRICHLOROBENZENE | | 0.17 | U | |
| 1,2,3-TRICHLOROPROPANE | | 0.43 | U | |
| 1,2,3-TRIMETHYLBENZENE | | 0.0059 | U | |
| 1,2,4-TRICHLOROBENZENE | | 0.15 | U | |
| 1,2,4-TRIMETHYLBENZENE | | 0.12 | U | |
| 1,2-DIBROMO-3-CHLOROPROPANE | | 0.67 | U | |
| 1,2-DIBROMOETHANE | | 0.24 | U | |
| 1,2-DICHLOROBENZENE | | 0.13 | U | |
| 1,2-DICHLOROETHANE | | 0.22 | U | |
| 1,2-DICHLOROPROPANE | | 0.18 | U | |
| 1,3-DICHLOROBENZENE | | 0.14 | U | |
| 1,3-DICHLOROPROPANE | | 0.16 | U | |
| 1,4-DICHLOROBENZENE | | 0.13 | U | |
| 2,2-DICHLOROPROPANE | | 0.13 | U | |
| 2-BUTANONE | | 0.57 | U | |
| 2-CHLOROETHYL VINYL ETHER | | 0.99 | U | |
| 2-CHLOROTOLUENE | | 0.11 | U | |
| 2-HEXANONE | | 0.41 | U | |
| 4-CHLOROTOLUENE | | 0.18 | U | |
| 4-ISOPROPYLTOLUENE | | 0.12 | U | |
| 4-METHYL-2-PENTANONE | | 0.32 | U | |
| ACETONE | | 1.1 | U | |
| BENZENE | | 0.13 | U | |
| BROMOBENZENE | | 0.13 | U | |
| BROMOCHLOROMETHANE | | 0.29 | U | |
| BROMODICHLOROMETHANE | | 0.15 | U | |
| BROMOFORM | | 0.64 | U | |
| BROMOMETHANE | | 0.41 | U | |

| | | | | |
|---|---|---|---|---|
| **PROJ_NO: 04054** | NSAMPLE | TB-071012 | | |
| **SDG: 240-13070-1** | LAB_ID | 240-13070-1 | | |
| **FRACTION: OV** | SAMP_DATE | 7/10/2012 | | |
| **MEDIA: WATER** | QC_TYPE | NM | | |
| | UNITS | UG/L | | |
| | PCT_SOLIDS | 0.0 | | |
| | DUP_OF | | | |
| PARAMETER | | RESULT | VQL | QLCD |
| CARBON DISULFIDE | | 0.13 | U | |
| CARBON TETRACHLORIDE | | 0.13 | U | |
| CHLOROBENZENE | | 0.15 | U | |
| CHLORODIBROMOMETHANE | | 0.18 | U | |
| CHLOROETHANE | | 0.29 | U | |
| CHLOROFORM | | 0.16 | U | |
| CHLOROMETHANE | | 0.3 | U | |
| CIS-1,2-DICHLOROETHENE | | 0.17 | U | |
| CIS-1,3-DICHLOROPROPENE | | 0.14 | U | |
| DIBROMOMETHANE | | 0.28 | U | |
| DICHLORODIFLUOROMETHANE | | 0.31 | U | |
| DIISOPROPYL ETHER | | 1.5 | U | |
| ETHYL TERT-BUTYL ETHER | | 0.11 | U | |
| ETHYLBENZENE | | 0.17 | U | |
| HEXACHLOROBUTADIENE | | 0.3 | U | |
| ISOPROPYLBENZENE | | 0.13 | U | |
| M+P-XYLENES | | 0.24 | U | |
| METHYL TERT-BUTYL ETHER | | 0.17 | U | |
| METHYLENE CHLORIDE | | 0.33 | U | |
| NAPHTHALENE | | 0.24 | U | |
| N-BUTYLBENZENE | | 0.12 | U | |
| N-PROPYLBENZENE | | 0.14 | U | |
| O-XYLENE | | 0.14 | U | |
| SEC-BUTYLBENZENE | | 0.13 | U | |
| STYRENE | | 0.11 | U | |
| TERT-AMYL METHYL ETHER | | 0.067 | U | |
| TERT-BUTYLBENZENE | | 0.13 | U | |
| TERTIARY-BUTYL ALCOHOL | | 3.9 | UR | C |
| TETRACHLOROETHENE | | 0.29 | U | |
| TOLUENE | | 0.13 | U | |
| TOTAL XYLENES | | 0.28 | U | |
| TRANS-1,2-DICHLOROETHENE | | 0.19 | U | |
| TRANS-1,3-DICHLOROPROPENE | | 0.19 | U | |
| TRICHLOROETHENE | | 0.17 | U | |
| TRICHLOROFLUOROMETHANE | | 0.21 | U | |

| | | | | |
|---|---|---|---|---|
| **PROJ_NO: 04054** | NSAMPLE | TB-071012 | | |
| **SDG: 240-13070-1** | LAB_ID | 240-13070-1 | | |
| **FRACTION: OV** | SAMP_DATE | 7/10/2012 | | |
| **MEDIA: WATER** | QC_TYPE | NM | | |
| | UNITS | UG/L | | |
| | PCT_SOLIDS | 0.0 | | |
| | DUP_OF | | | |
| PARAMETER | | RESULT | VQL | QLCD |
| VINYL ACETATE | | 0.19 | UR | C |
| VINYL CHLORIDE | | 0.22 | U | |

MT-SS17-0-2 AC 11-29-12

| PROJ_NO: 04054 | NSAMPLE | ~~MT-SB17-0-2~~ | ~~MT-SB17-8-10~~ MT-SS17-8-10 | MT-SS18-0-2 | MT-SS18-8-10 |
|---|---|---|---|---|---|
| SDG: 240-13070-1 | LAB_ID | 240-13070-5 | 240-13070-6 | 240-13070-2 | 240-13070-3 |
| FRACTION: OS | SAMP_DATE | 7/10/2012 | 7/10/2012 | 7/10/2012 | 7/10/2012 |
| MEDIA: SOIL | QC_TYPE | NM | NM | NM | NM |
| | UNITS | UG/KG | UG/KG | UG/KG | UG/KG |
| | PCT_SOLIDS | 83.6 | 82.4 | 83.9 | 85.9 |
| | DUP_OF | | | | |

| PARAMETER | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-BIPHENYL | 33 | U | | 32 | U | | 32 | U | | 32 | U | |
| 1,4-DIOXANE | 27 | U | | 26 | U | | 26 | U | | 26 | U | |
| 2,2'-OXYBIS(1-CHLOROPROPANE) | 11 | U | | 11 | U | | 11 | U | | 11 | U | |
| 2,4,5-TRICHLOROPHENOL | 30 | U | | 30 | U | | 29 | U | | 29 | U | |
| 2,4,6-TRICHLOROPHENOL | 97 | U | | 96 | U | | 94 | U | | 94 | U | |
| 2,4-DICHLOROPHENOL | 24 | U | | 24 | U | | 24 | U | | 23 | U | |
| 2,4-DIMETHYLPHENOL | 25 | J | P | 24 | U | | 24 | U | | 23 | U | |
| 2,4-DINITROPHENOL | 97 | U | | 96 | U | | 94 | U | | 94 | U | |
| 2,4-DINITROTOLUENE | 33 | U | | 32 | U | | 32 | U | | 32 | U | |
| 2,6-DINITROTOLUENE | 25 | U | | 25 | U | | 25 | U | | 25 | U | |
| 2-CHLORONAPHTHALENE | 4 | U | | 4 | U | | 3.9 | U | | 3.9 | U | |
| 2-CHLOROPHENOL | 33 | U | | 32 | U | | 32 | U | | 32 | U | |
| 2-METHYLNAPHTHALENE | 18 | | | 4 | U | | 3.9 | U | | 3.9 | U | |
| 2-METHYLPHENOL | 97 | U | | 96 | U | | 94 | U | | 94 | U | |
| 2-NITROANILINE | 11 | U | | 11 | U | | 11 | U | | 11 | U | |
| 2-NITROPHENOL | 33 | U | | 32 | U | | 32 | U | | 32 | U | |
| 3&4-METHYLPHENOL | 24 | U | | 24 | U | | 24 | U | | 23 | U | |
| 3,3'-DICHLOROBENZIDINE | 22 | U | | 22 | U | | 21 | U | | 21 | U | |
| 3-NITROANILINE | 19 | U | | 19 | U | | 19 | U | | 19 | U | |
| 4,6-DINITRO-2-METHYLPHENOL | 97 | U | | 96 | U | | 94 | U | | 94 | U | |
| 4-BROMOPHENYL PHENYL ETHER | 16 | U | | 16 | U | | 15 | U | | 15 | U | |
| 4-CHLORO-3-METHYLPHENOL | 25 | U | | 25 | U | | 25 | U | | 25 | U | |
| 4-CHLOROANILINE | 21 | U | | 20 | U | | 20 | U | | 20 | U | |
| 4-CHLOROPHENYL PHENYL ETHER | 16 | U | | 16 | U | | 15 | U | | 15 | U | |
| 4-NITROANILINE | 31 | U | | 31 | U | | 31 | U | | 31 | U | |
| 4-NITROPHENOL | 97 | U | | 96 | U | | 94 | U | | 94 | U | |
| ACENAPHTHENE | 4 | U | | 4 | U | | 3.9 | U | | 3.9 | U | |
| ACENAPHTHYLENE | 15 | | | 17 | | | 3.9 | U | | 3.9 | U | |
| ACETOPHENONE | 25 | J | P | 11 | U | | 11 | U | | 11 | U | |
| ANTHRACENE | 25 | | | 39 | | | 3.9 | U | | 3.9 | U | |
| ATRAZINE | 11 | U | | 11 | U | | 11 | U | | 11 | U | |
| BENZALDEHYDE | 15 | U | | 14 | U | | 14 | U | | 14 | U | |
| BENZO(A)ANTHRACENE | 110 | | | 240 | | | 3.9 | U | | 3.9 | U | |
| BENZO(A)PYRENE | 150 | | | 310 | | | 3.9 | U | | 3.9 | U | |
| BENZO(B)FLUORANTHENE | 190 | | | 440 | | | 3.9 | U | | 3.9 | U | |



8/22/2012

MT-SS17-0-2 AC 11-29-12

| PROJ_NO: 04054 | NSAMPLE | ~~MT-SB17-0-2~~ | | | ~~MT-SB17-8-10~~ MT-SS17-8-10 | | | MT-SS18-0-2 | | | MT-SS18-8-10 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-13070-1 | LAB_ID | 240-13070-5 | | | 240-13070-6 | | | 240-13070-2 | | | 240-13070-3 | | |
| FRACTION: OS | SAMP_DATE | 7/10/2012 | | | 7/10/2012 | | | 7/10/2012 | | | 7/10/2012 | | |
| MEDIA: SOIL | QC_TYPE | NM | | | NM | | | NM | | | NM | | |
| | UNITS | UG/KG | | | UG/KG | | | UG/KG | | | UG/KG | | |
| | PCT_SOLIDS | 83.6 | | | 82.4 | | | 83.9 | | | 85.9 | | |
| | DUP_OF | | | | | | | | | | | | |

| PARAMETER | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BENZO(G,H,I)PERYLENE | 130 | | | 280 | | | 3.9 | U | | 3.9 | U | |
| BENZO(K)FLUORANTHENE | 99 | | | 230 | | | 3.9 | U | | 3.9 | U | |
| BIS(2-CHLOROETHOXY)METHANE | 27 | U | | 26 | U | | 26 | U | | 26 | U | |
| BIS(2-CHLOROETHYL)ETHER | 2.4 | U | | 2.4 | U | | 2.4 | U | | 2.3 | U | |
| BIS(2-ETHYLHEXYL)PHTHALATE | 38 | J | P | 58 | J | P | 34 | J | P | 25 | J | P |
| BUTYL BENZYL PHTHALATE | 12 | U | | 12 | U | | 12 | U | | 12 | U | |
| CAPROLACTAM | 45 | U | | 45 | U | | 43 | U | | 43 | U | |
| CARBAZOLE | 33 | U | | 32 | U | | 32 | U | | 32 | U | |
| CHRYSENE | 160 | | | 350 | | | 1.3 | U | | 1.3 | U | |
| DIBENZO(A,H)ANTHRACENE | 28 | | | 62 | | | 3.9 | U | | 3.9 | U | |
| DIBENZOFURAN | 4 | U | | 4 | U | | 3.9 | U | | 3.9 | U | |
| DIETHYL PHTHALATE | 19 | U | | 19 | U | | 19 | U | | 19 | U | |
| DIMETHYL PHTHALATE | 21 | U | | 20 | U | | 20 | U | | 20 | U | |
| DI-N-BUTYL PHTHALATE | 35 | J | P | 29 | J | P | 20 | J | P | 18 | U | |
| DI-N-OCTYL PHTHALATE | 33 | U | | 32 | U | | 32 | U | | 32 | U | |
| FLUORANTHENE | 190 | | | 510 | | | 8.7 | | | 3.9 | U | |
| FLUORENE | 4 | U | | 10 | | | 3.9 | U | | 3.9 | U | |
| HEXACHLOROBENZENE | 2.5 | U | | 2.5 | U | | 2.5 | U | | 2.5 | U | |
| HEXACHLOROBUTADIENE | 33 | U | | 32 | U | | 32 | U | | 32 | U | |
| HEXACHLOROCYCLOPENTADIENE | 33 | UR | D | 32 | U | | 32 | U | | 32 | U | |
| HEXACHLOROETHANE | 11 | U | | 11 | U | | 11 | U | | 11 | U | |
| INDENO(1,2,3-CD)PYRENE | 98 | | | 230 | | | 3.9 | U | | 3.9 | U | |
| ISOPHORONE | 16 | U | | 16 | U | | 15 | U | | 15 | U | |
| NAPHTHALENE | 30 | | | 4 | U | | 3.9 | U | | 3.9 | U | |
| NITROBENZENE | 2.7 | U | | 2.6 | U | | 2.6 | U | | 2.6 | U | |
| N-NITROSODIMETHYLAMINE | 19 | U | | 19 | U | | 19 | U | | 19 | U | |
| N-NITROSO-DI-N-PROPYLAMINE | 33 | U | | 32 | U | | 32 | U | | 32 | U | |
| N-NITROSODIPHENYLAMINE | 25 | U | | 25 | U | | 25 | U | | 25 | U | |
| PENTACHLOROPHENOL | 97 | U | | 96 | U | | 94 | U | | 94 | U | |
| PHENANTHRENE | 65 | | | 150 | | | 3.9 | U | | 3.9 | U | |
| PHENOL | 37 | J | P | 32 | U | | 32 | U | | 32 | U | |
| PYRENE | 210 | | | 450 | | | 3.9 | U | | 3.9 | U | |

MT-SS17-0-2 AC 11-29-12

| PROJ_NO: 04054 | NSAMPLE | ~~MT-SB17-0-2~~ | | | ~~MT-SB17-8-10~~ MT-SS17-8-10 | | | MT-SS18-0-2 | | | MT-SS18-8-10 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-13070-1 | LAB_ID | 240-13070-5 | | | 240-13070-6 | | | 240-13070-2 | | | 240-13070-3 | | |
| FRACTION: PCB | SAMP_DATE | 7/10/2012 | | | 7/10/2012 | | | 7/10/2012 | | | 7/10/2012 | | |
| MEDIA: SOIL | QC_TYPE | NM | | | NM | | | NM | | | NM | | |
| | UNITS | UG/KG | | | UG/KG | | | UG/KG | | | UG/KG | | |
| | PCT_SOLIDS | 83.6 | | | 82.4 | | | 83.9 | | | 85.9 | | |
| | DUP_OF | | | | | | | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| AROCLOR-1016 | | 25 | U | | 26 | U | | 25 | U | | 25 | U | |
| AROCLOR-1221 | | 19 | U | | 20 | U | | 19 | U | | 19 | U | |
| AROCLOR-1232 | | 17 | U | | 17 | U | | 17 | U | | 17 | U | |
| AROCLOR-1242 | | 16 | U | | 16 | U | | 16 | U | | 15 | U | |
| AROCLOR-1248 | | 20 | U | | 21 | U | | 20 | U | | 20 | U | |
| AROCLOR-1254 | | 20 | U | | 21 | U | | 20 | U | | 20 | U | |
| AROCLOR-1260 | | 20 | U | | 21 | U | | 20 | U | | 20 | U | |



8/22/2012

MT-5517-0-2 11-29-12 AC

| PROJ_NO: 04054 | NSAMPLE | ~~MT-SB17-0-2~~ | | | | | | ~~MT-SB17-8-10~~ MT-5517-8-10 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-13070-1 | LAB_ID | 240-13070-5 | | | | | | 240-13070-6 | | | | | |
| FRACTION: PET | SAMP_DATE | 7/10/2012 | | | | | | 7/10/2012 | | | | | |
| MEDIA: SOIL | QC_TYPE | NM | | | | | | NM | | | | | |
| | UNITS | MG/KG | | | UG/KG | | | MG/KG | | | UG/KG | | |
| | PCT_SOLIDS | 83.6 | | | 83.6 | | | 82.4 | | | 82.4 | | |
| | DUP_OF | | | | | | | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| TPH (C06-C10) | | | | | 130 | | | | | | 56 | U | |
| TPH (C10-C32) | | 240 | | | | | | 28 | | | | | |

| PROJ_NO: 04054 | NSAMPLE | MT-SS18-0-2 | | | | | | MT-SS18-8-10 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-13070-1 | LAB_ID | 240-13070-2 | | | | | | 240-13070-3 | | | | | |
| FRACTION: PET | SAMP_DATE | 7/10/2012 | | | | | | 7/10/2012 | | | | | |
| MEDIA: SOIL | QC_TYPE | NM | | | | | | NM | | | | | |
| | UNITS | MG/KG | | | UG/KG | | | MG/KG | | | UG/KG | | |
| | PCT_SOLIDS | 83.9 | | | 83.9 | | | 85.9 | | | 85.9 | | |
| | DUP_OF | | | | | | | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| TPH (C06-C10) | | | | | 380 | | | | | | 54 | U | |
| TPH (C10-C32) | | 11 | UJ | C | | | | 11 | UJ | C | | | |

| PROJ_NO: 04054 | NSAMPLE | MT-TCLP-8-10 | | |
|---|---|---|---|---|
| SDG: 240-13070-1 | LAB_ID | 240-13070-4 | | |
| FRACTION: TCLPP | SAMP_DATE | 7/10/2012 | | |
| MEDIA: SOIL | QC_TYPE | NM | | |
| | UNITS | MG/L | | |
| | PCT_SOLIDS | 0.0 | | |
| | DUP_OF | | | |
| PARAMETER | | RESULT | VQL | QLCD |
| CHLORDANE | | 7E-05 | U | |
| ENDRIN | | 2E-05 | UJ | C |
| GAMMA-BHC (LINDANE) | | 1E-05 | U | |
| HEPTACHLOR | | 1E-05 | UJ | C |
| HEPTACHLOR EPOXIDE | | 1E-05 | U | |
| METHOXYCHLOR | | 7E-05 | U | |
| TOXAPHENE | | 0.00077 | U | |

| | | | | |
|---|---|---|---|---|
| **PROJ_NO: 04054** | NSAMPLE | MT-TCLP-8-10 | | |
| **SDG: 240-13070-1** | LAB_ID | 240-13070-4 | | |
| **FRACTION: TCLPH** | SAMP_DATE | 7/10/2012 | | |
| **MEDIA: SOIL** | QC_TYPE | NM | | |
| | UNITS | MG/L | | |
| | PCT_SOLIDS | 0.0 | | |
| | DUP_OF | | | |
| PARAMETER | | RESULT | VQL | QLCD |
| 2,4,5-TP (SILVEX) | | 0.0001 | U | |
| 2,4-D | | 0.00021 | U | |

| | | | | |
|---|---|---|---|---|
| **PROJ_NO: 04054** | NSAMPLE | MT-TCLP-8-10 | | |
| **SDG: 240-13070-1** | LAB_ID | 240-13070-4 | | |
| **FRACTION: TCLPS** | SAMP_DATE | 7/10/2012 | | |
| **MEDIA: SOIL** | QC_TYPE | NM | | |
| | UNITS | MG/L | | |
| | PCT_SOLIDS | 0.0 | | |
| | DUP_OF | | | |
| PARAMETER | | RESULT | VQL | QLCD |
| 1,4-DICHLOROBENZENE | | 0.00034 | U | |
| 2,4,5-TRICHLOROPHENOL | | 0.0003 | U | |
| 2,4,6-TRICHLOROPHENOL | | 0.0008 | U | |
| 2,4-DINITROTOLUENE | | 0.00027 | U | |
| 2-METHYLPHENOL | | 0.0008 | U | |
| 3&4-METHYLPHENOL | | 0.00075 | U | |
| HEXACHLOROBENZENE | | 0.0001 | U | |
| HEXACHLOROBUTADIENE | | 0.00027 | U | |
| HEXACHLOROETHANE | | 0.0008 | U | |
| NITROBENZENE | | 4E-05 | U | |
| PENTACHLOROPHENOL | | 0.0024 | U | |
| PYRIDINE | | 0.00035 | U | |

| | | | | |
|---|---|---|---|---|
| **PROJ_NO: 04054** | NSAMPLE | MT-TCLP-8-10 | | |
| **SDG: 240-13070-1** | LAB_ID | 240-13070-4 | | |
| **FRACTION: TCLPV** | SAMP_DATE | 7/10/2012 | | |
| **MEDIA: SOIL** | QC_TYPE | NM | | |
| | UNITS | MG/L | | |
| | PCT_SOLIDS | 0.0 | | |
| | DUP_OF | | | |
| PARAMETER | | RESULT | VQL | QLCD |
| 1,1-DICHLOROETHENE | | 0.0095 | U | |
| 1,2-DICHLOROETHANE | | 0.011 | U | |
| 2-BUTANONE | | 0.029 | UR | C |
| BENZENE | | 0.0065 | U | |
| CARBON TETRACHLORIDE | | 0.0065 | U | |
| CHLOROBENZENE | | 0.0075 | U | |
| CHLOROFORM | | 0.008 | U | |
| TETRACHLOROETHENE | | 0.015 | U | |
| TRICHLOROETHENE | | 0.0085 | U | |
| VINYL CHLORIDE | | 0.011 | U | |

## Appendix B

Results as Reported by the Laboratory

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-TCLP-8-10  Lab Sample ID: 240-13070-4

Matrix: Solid (TCLP)  Lab File ID: UX124995.D

Analysis Method: 8260B  Date Collected: 07/10/2012 09:25

Sample wt/vol: 0.1(mL)  Date Analyzed: 07/13/2012 21:31

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 50783  Units: mg/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 75-35-4 | 1,1-Dichloroethene | 0.025 | U | 0.025 | 0.0095 |
| 107-06-2 | 1,2-Dichloroethane | 0.025 | U | 0.025 | 0.011 |
| 78-93-3 | 2-Butanone (MEK) | 0.25 | U | 0.25 | 0.029 |
| 71-43-2 | Benzene | 0.025 | U | 0.025 | 0.0065 |
| 56-23-5 | Carbon tetrachloride | 0.025 | U | 0.025 | 0.0065 |
| 108-90-7 | Chlorobenzene | 0.025 | U | 0.025 | 0.0075 |
| 67-66-3 | Chloroform | 0.025 | U | 0.025 | 0.0080 |
| 127-18-4 | Tetrachloroethene | 0.025 | U | 0.025 | 0.015 |
| 79-01-6 | Trichloroethene | 0.025 | U | 0.025 | 0.0085 |
| 75-01-4 | Vinyl chloride | 0.025 | U | 0.025 | 0.011 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 104 | | 80-121 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 94 | | 70-124 |
| 2037-26-5 | Toluene-d8 (Surr) | 106 | | 90-115 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 115 | | 84-128 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-SB17-0-2 Lab Sample ID: 240-13070-5

Matrix: Solid Lab File ID: 146741.D

Analysis Method: 8260B Date Collected: 07/10/2012 10:25

Sample wt/vol: 7.129(g) Date Analyzed: 07/16/2012 19:47

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: 16.4 Level: (low/med) Low

Analysis Batch No.: 50900 Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 4.2 | U | 4.2 | 0.52 |
| 71-55-6 | 1,1,1-Trichloroethane | 4.2 | U | 4.2 | 0.47 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 4.2 | U | 4.2 | 0.29 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trichfluoroeth ane | 4.2 | U | 4.2 | 1.1 |
| 75-34-3 | 1,1-Dichloroethane | 4.2 | U | 4.2 | 0.30 |
| 75-35-4 | 1,1-Dichloroethene | 4.2 | U | 4.2 | 0.44 |
| 563-58-6 | 1,1-Dichloropropene | 4.2 | U | 4.2 | 0.25 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 4.2 | U | 4.2 | 0.32 |
| 96-18-4 | 1,2,3-Trichloropropane | 4.2 | U | 4.2 | 0.76 |
| 526-73-8 | 1,2,3-Trimethylbenzene | 1.9 | J | 4.2 | 0.14 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 4.2 | U | 4.2 | 0.23 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 2.3 | J | 4.2 | 0.55 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 8.4 | U | 8.4 | 1.1 |
| 106-93-4 | 1,2-Dibromoethane | 4.2 | U | 4.2 | 0.42 |
| 95-50-1 | 1,2-Dichlorobenzene | 4.2 | U | 4.2 | 0.30 |
| 107-06-2 | 1,2-Dichloroethane | 4.2 | U | 4.2 | 0.29 |
| 78-87-5 | 1,2-Dichloropropane | 4.2 | U * | 4.2 | 0.58 |
| 541-73-1 | 1,3-Dichlorobenzene | 4.2 | U | 4.2 | 0.29 |
| 142-28-9 | 1,3-Dichloropropane | 4.2 | U * | 4.2 | 0.29 |
| 106-46-7 | 1,4-Dichlorobenzene | 4.2 | U | 4.2 | 0.55 |
| 594-20-7 | 2,2-Dichloropropane | 4.2 | U | 4.2 | 0.79 |
| 78-93-3 | 2-Butanone | 4.1 | J | 17 | 1.2 |
| 110-75-8 | 2-Chloroethyl vinyl ether | 42 | U | 42 | 1.2 |
| 95-49-8 | 2-Chlorotoluene | 4.2 | U | 4.2 | 0.34 |
| 591-78-6 | 2-Hexanone | 17 | U | 17 | 0.53 |
| 106-43-4 | 4-Chlorotoluene | 4.2 | U | 4.2 | 0.34 |
| 108-10-1 | 4-Methyl-2-pentanone | 17 | U | 17 | 0.45 |
| 67-64-1 | Acetone | 42 | | 17 | 5.3 |
| 71-43-2 | Benzene | 4.2 | U | 4.2 | 0.19 |
| 108-86-1 | Bromobenzene | 4.2 | U | 4.2 | 0.28 |
| 74-97-5 | Bromochloromethane | 4.2 | U | 4.2 | 0.60 |
| 75-27-4 | Bromodichloromethane | 4.2 | U | 4.2 | 0.23 |
| 75-25-2 | Bromoform | 4.2 | U | 4.2 | 0.28 |
| 74-83-9 | Bromomethane | 4.2 | U | 4.2 | 0.45 |
| 75-15-0 | Carbon disulfide | 3.0 | J | 4.2 | 0.37 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-SB17-0-2  Lab Sample ID: 240-13070-5

Matrix: Solid  Lab File ID: 146741.D

Analysis Method: 8260B  Date Collected: 07/10/2012 10:25

Sample wt/vol: 7.129(g)  Date Analyzed: 07/16/2012 19:47

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture: 16.4  Level: (low/med) Low

Analysis Batch No.: 50900  Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 56-23-5 | Carbon tetrachloride | 4.2 | U | 4.2 | 0.31 |
| 108-90-7 | Chlorobenzene | 4.2 | U * | 4.2 | 0.28 |
| 75-00-3 | Chloroethane | 4.2 | U | 4.2 | 0.72 |
| 67-66-3 | Chloroform | 4.2 | U | 4.2 | 0.24 |
| 74-87-3 | Chloromethane | 4.2 | U | 4.2 | 0.34 |
| 156-59-2 | cis-1,2-Dichloroethene | 5.2 | | 4.2 | 0.30 |
| 10061-01-5 | cis-1,3-Dichloropropene | 4.2 | U | 4.2 | 0.29 |
| 124-48-1 | Dibromochloromethane | 4.2 | U | 4.2 | 0.46 |
| 74-95-3 | Dibromomethane | 4.2 | U | 4.2 | 0.53 |
| 75-71-8 | Dichlorodifluoromethane | 4.2 | U | 4.2 | 0.42 |
| 108-20-3 | Diisopropyl ether | 8.4 | U | 8.4 | 1.3 |
| 100-41-4 | Ethylbenzene | 0.34 | J | 4.2 | 0.22 |
| 637-92-3 | Ethyl-t-butyl ether (ETBE) | 4.2 | U | 4.2 | 0.18 |
| 87-68-3 | Hexachlorobutadiene | 4.2 | U | 4.2 | 1.0 |
| 98-82-8 | Isopropylbenzene | 0.24 | J | 4.2 | 0.13 |
| 1634-04-4 | Methyl tert-butyl ether | 17 | U | 17 | 0.36 |
| 75-09-2 | Methylene Chloride | 4.2 | U | 4.2 | 0.56 |
| 179601-23-1 | m-Xylene & p-Xylene | 8.4 | U | 8.4 | 1.0 |
| 91-20-3 | Naphthalene | 0.62 | J B | 4.2 | 0.16 |
| 104-51-8 | n-Butylbenzene | 4.2 | U | 4.2 | 0.19 |
| 103-65-1 | n-Propylbenzene | 4.2 | U | 4.2 | 0.34 |
| 95-47-6 | o-Xylene | 0.46 | J | 4.2 | 0.29 |
| 99-87-6 | p-Isopropyltoluene | 1.3 | J | 4.2 | 0.18 |
| 135-98-8 | sec-Butylbenzene | 0.64 | J | 4.2 | 0.15 |
| 100-42-5 | Styrene | 4.2 | U | 4.2 | 0.13 |
| 994-05-8 | Tert-amyl-methyl ether (TAME) | 4.2 | U | 4.2 | 0.31 |
| 75-65-0 | tert-Butyl alcohol | 170 | U | 170 | 6.4 |
| 98-06-6 | tert-Butylbenzene | 4.2 | U | 4.2 | 0.24 |
| 127-18-4 | Tetrachloroethene | 4.2 | U | 4.2 | 0.44 |
| 108-88-3 | Toluene | 0.49 | J | 4.2 | 0.23 |
| 156-60-5 | trans-1,2-Dichloroethene | 4.2 | U | 4.2 | 0.34 |
| 10061-02-6 | trans-1,3-Dichloropropene | 4.2 | U | 4.2 | 0.45 |
| 79-01-6 | Trichloroethene | 4.2 | U | 4.2 | 0.35 |
| 75-69-4 | Trichlorofluoromethane | 4.2 | U | 4.2 | 0.29 |
| 108-05-4 | Vinyl acetate | 8.4 | U | 8.4 | 0.21 |
| 75-01-4 | Vinyl chloride | 2.5 | J | 4.2 | 0.33 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-SB17-0-2 | Lab Sample ID: 240-13070-5

Matrix: Solid | Lab File ID: 146741.D

Analysis Method: 8260B | Date Collected: 07/10/2012 10:25

Sample wt/vol: 7.129(g) | Date Analyzed: 07/16/2012 19:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 16.4 | Level: (low/med) Low

Analysis Batch No.: 50900 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 1330-20-7 | Xylenes, Total | 8.4 | U | 8.4 | 0.56 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 108 | | 58-123 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 102 | | 52-136 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 90 | | 37-132 |
| 2037-26-5 | Toluene-d8 (Surr) | 104 | | 67-125 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-SB17-0-2  Lab Sample ID: 240-13070-5

Matrix: Solid  Lab File ID: 146741.D

Analysis Method: 8260B  Date Collected: 07/10/2012 10:25

Sample wt/vol: 7.129(g)  Date Analyzed: 07/16/2012 19:47

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture: 16.4  Level: (low/med) Low

Analysis Batch No.: 50900  Units: ug/Kg

Number TICs Found: 10  TIC Result Total: 60.5

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| | Unknown | 2.16 | 5.8 | T J |
| 110-54-3 | Hexane | 4.74 | 1.2 | J |
| 108-87-2 | Methylcyclohexane | 7.42 | 2.6 | J |
| 3073-66-3 | Cyclohexane, 1,1,3-trimethyl- | 9.18 | 4.4 | T J N |
| 556-67-2 | Cyclotetrasiloxane, octamethyl- | 10.73 | 21 | T J N |
| 108-67-8 | 1,3,5-Trimethylbenzene | 10.94 | 1.3 | J |
| 933-98-2 | Benzene, 1-ethyl-2,3-dimethyl- | 11.85 | 4.6 | T J N |
| 99-87-6 | Benzene, 1-methyl-4-(1-methylethyl)- | 12.12 | 5.1 | T J N |
| | Unknown | 12.28 | 6.3 | T J |
| 527-84-4 | Benzene, 1-methyl-2-(1-methylethyl)- | 12.91 | 8.2 | T J N |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-SB17-8-10 | Lab Sample ID: 240-13070-6

Matrix: Solid | Lab File ID: 146742.D

Analysis Method: 8260B | Date Collected: 07/10/2012 10:30

Sample wt/vol: 6.607(g) | Date Analyzed: 07/16/2012 20:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 17.6 | Level: (low/med) Low

Analysis Batch No.: 50900 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 4.6 | U | 4.6 | 0.57 |
| 71-55-6 | 1,1,1-Trichloroethane | 4.6 | U | 4.6 | 0.51 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 4.6 | U | 4.6 | 0.31 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trichfluoroeth ane | 4.6 | U | 4.6 | 1.2 |
| 75-34-3 | 1,1-Dichloroethane | 4.6 | U | 4.6 | 0.33 |
| 75-35-4 | 1,1-Dichloroethene | 4.6 | U | 4.6 | 0.48 |
| 563-58-6 | 1,1-Dichloropropene | 4.6 | U | 4.6 | 0.28 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 4.6 | U | 4.6 | 0.35 |
| 96-18-4 | 1,2,3-Trichloropropane | 4.6 | U | 4.6 | 0.83 |
| 526-73-8 | 1,2,3-Trimethylbenzene | 4.6 | U | 4.6 | 0.16 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 4.6 | U | 4.6 | 0.25 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 4.6 | U | 4.6 | 0.60 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 9.2 | U | 9.2 | 1.2 |
| 106-93-4 | 1,2-Dibromoethane | 4.6 | U | 4.6 | 0.46 |
| 95-50-1 | 1,2-Dichlorobenzene | 4.6 | U | 4.6 | 0.33 |
| 107-06-2 | 1,2-Dichloroethane | 4.6 | U | 4.6 | 0.31 |
| 78-87-5 | 1,2-Dichloropropane | 4.6 | U * | 4.6 | 0.63 |
| 541-73-1 | 1,3-Dichlorobenzene | 4.6 | U | 4.6 | 0.32 |
| 142-28-9 | 1,3-Dichloropropane | 4.6 | U * | 4.6 | 0.31 |
| 106-46-7 | 1,4-Dichlorobenzene | 4.6 | U | 4.6 | 0.61 |
| 594-20-7 | 2,2-Dichloropropane | 4.6 | U | 4.6 | 0.86 |
| 78-93-3 | 2-Butanone | 3.0 | J | 18 | 1.3 |
| 110-75-8 | 2-Chloroethyl vinyl ether | 46 | U | 46 | 1.3 |
| 95-49-8 | 2-Chlorotoluene | 4.6 | U | 4.6 | 0.37 |
| 591-78-6 | 2-Hexanone | 18 | U | 18 | 0.58 |
| 106-43-4 | 4-Chlorotoluene | 4.6 | U | 4.6 | 0.38 |
| 108-10-1 | 4-Methyl-2-pentanone | 18 | U | 18 | 0.50 |
| 67-64-1 | Acetone | 65 | | 18 | 5.8 |
| 71-43-2 | Benzene | 4.6 | U | 4.6 | 0.21 |
| 108-86-1 | Bromobenzene | 4.6 | U | 4.6 | 0.30 |
| 74-97-5 | Bromochloromethane | 4.6 | U | 4.6 | 0.65 |
| 75-27-4 | Bromodichloromethane | 4.6 | U | 4.6 | 0.26 |
| 75-25-2 | Bromoform | 4.6 | U | 4.6 | 0.30 |
| 74-83-9 | Bromomethane | 4.6 | U | 4.6 | 0.50 |
| 75-15-0 | Carbon disulfide | 4.6 | U | 4.6 | 0.40 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-SB17-8-10 | Lab Sample ID: 240-13070-6

Matrix: Solid | Lab File ID: 146742.D

Analysis Method: 8260B | Date Collected: 07/10/2012 10:30

Sample wt/vol: 6.607(g) | Date Analyzed: 07/16/2012 20:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 17.6 | Level: (low/med) Low

Analysis Batch No.: 50900 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 56-23-5 | Carbon tetrachloride | 4.6 | U | 4.6 | 0.34 |
| 108-90-7 | Chlorobenzene | 4.6 | U * | 4.6 | 0.30 |
| 75-00-3 | Chloroethane | 4.6 | U | 4.6 | 0.79 |
| 67-66-3 | Chloroform | 4.6 | U | 4.6 | 0.27 |
| 74-87-3 | Chloromethane | 4.6 | U | 4.6 | 0.38 |
| 156-59-2 | cis-1,2-Dichloroethene | 4.6 | U | 4.6 | 0.33 |
| 10061-01-5 | cis-1,3-Dichloropropene | 4.6 | U | 4.6 | 0.31 |
| 124-48-1 | Dibromochloromethane | 4.6 | U | 4.6 | 0.51 |
| 74-95-3 | Dibromomethane | 4.6 | U | 4.6 | 0.58 |
| 75-71-8 | Dichlorodifluoromethane | 4.6 | U | 4.6 | 0.46 |
| 108-20-3 | Diisopropyl ether | 9.2 | U | 9.2 | 1.4 |
| 100-41-4 | Ethylbenzene | 4.6 | U | 4.6 | 0.24 |
| 637-92-3 | Ethyl-t-butyl ether (ETBE) | 4.6 | U | 4.6 | 0.20 |
| 87-68-3 | Hexachlorobutadiene | 4.6 | U | 4.6 | 1.1 |
| 98-82-8 | Isopropylbenzene | 4.6 | U | 4.6 | 0.15 |
| 1634-04-4 | Methyl tert-butyl ether | 18 | U | 18 | 0.39 |
| 75-09-2 | Methylene Chloride | 4.6 | U | 4.6 | 0.62 |
| 179601-23-1 | m-Xylene & p-Xylene | 9.2 | U | 9.2 | 1.1 |
| 91-20-3 | Naphthalene | 4.6 | U | 4.6 | 0.17 |
| 104-51-8 | n-Butylbenzene | 4.6 | U | 4.6 | 0.21 |
| 103-65-1 | n-Propylbenzene | 4.6 | U | 4.6 | 0.37 |
| 95-47-6 | o-Xylene | 4.6 | U | 4.6 | 0.32 |
| 99-87-6 | p-Isopropyltoluene | 4.6 | U | 4.6 | 0.19 |
| 135-98-8 | sec-Butylbenzene | 4.6 | U | 4.6 | 0.17 |
| 100-42-5 | Styrene | 4.6 | U | 4.6 | 0.14 |
| 994-05-8 | Tert-amyl-methyl ether (TAME) | 4.6 | U | 4.6 | 0.34 |
| 75-65-0 | tert-Butyl alcohol | 180 | U | 180 | 7.0 |
| 98-06-6 | tert-Butylbenzene | 4.6 | U | 4.6 | 0.27 |
| 127-18-4 | Tetrachloroethene | 4.6 | U | 4.6 | 0.48 |
| 108-88-3 | Toluene | 0.28 | J | 4.6 | 0.25 |
| 156-60-5 | trans-1,2-Dichloroethene | 4.6 | U | 4.6 | 0.38 |
| 10061-02-6 | trans-1,3-Dichloropropene | 4.6 | U | 4.6 | 0.50 |
| 79-01-6 | Trichloroethene | 4.6 | U | 4.6 | 0.39 |
| 75-69-4 | Trichlorofluoromethane | 4.6 | U | 4.6 | 0.31 |
| 108-05-4 | Vinyl acetate | 9.2 | U | 9.2 | 0.23 |
| 75-01-4 | Vinyl chloride | 4.6 | U | 4.6 | 0.36 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-SB17-8-10 Lab Sample ID: 240-13070-6

Matrix: Solid Lab File ID: 146742.D

Analysis Method: 8260B Date Collected: 07/10/2012 10:30

Sample wt/vol: 6.607(g) Date Analyzed: 07/16/2012 20:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: 17.6 Level: (low/med) Low

Analysis Batch No.: 50900 Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 1330-20-7 | Xylenes, Total | 9.2 | U | 9.2 | 0.62 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 108 | | 58-123 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 100 | | 52-136 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 91 | | 37-132 |
| 2037-26-5 | Toluene-d8 (Surr) | 101 | | 67-125 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-SB17-8-10  Lab Sample ID: 240-13070-6

Matrix: Solid  Lab File ID: 146742.D

Analysis Method: 8260B  Date Collected: 07/10/2012 10:30

Sample wt/vol: 6.607(g)  Date Analyzed: 07/16/2012 20:09

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture: 17.6  Level: (low/med) Low

Analysis Batch No.: 50900  Units: ug/Kg

Number TICs Found: 1  TIC Result Total: 0.32

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| | Tentatively Identified Compound | | None | |
| 110-82-7 | Cyclohexane | 6.26 | 0.32 | J |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-SS18-0-2 | Lab Sample ID: 240-13070-2

Matrix: Solid | Lab File ID: 146763.D

Analysis Method: 8260B | Date Collected: 07/10/2012 09:15

Sample wt/vol: 5.313(g) | Date Analyzed: 07/17/2012 16:36

Soil Aliquot Vol: 100 (uL) | Dilution Factor: 1

Soil Extract Vol.: 5(mL) | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 16.1 | Level: (low/med) Medium

Analysis Batch No.: 51061 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 280 | U | 280 | 10 |
| 71-55-6 | 1,1,1-Trichloroethane | 280 | U | 280 | 24 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 280 | U | 280 | 10 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trichfluoroeth ane | 280 | U | 280 | 44 |
| 75-34-3 | 1,1-Dichloroethane | 280 | U | 280 | 19 |
| 75-35-4 | 1,1-Dichloroethene | 280 | U | 280 | 20 |
| 563-58-6 | 1,1-Dichloropropene | 280 | U | 280 | 11 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 280 | U | 280 | 11 |
| 96-18-4 | 1,2,3-Trichloropropane | 280 | U | 280 | 24 |
| 526-73-8 | 1,2,3-Trimethylbenzene | 33 | J | 280 | 0.19 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 280 | U | 280 | 8.2 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 34 | J | 280 | 5.6 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 560 | U | 560 | 56 |
| 106-93-4 | 1,2-Dibromoethane | 280 | U | 280 | 11 |
| 95-50-1 | 1,2-Dichlorobenzene | 280 | U | 280 | 9.6 |
| 107-06-2 | 1,2-Dichloroethane | 280 | U * | 280 | 11 |
| 78-87-5 | 1,2-Dichloropropane | 280 | U * | 280 | 9.2 |
| 541-73-1 | 1,3-Dichlorobenzene | 280 | U | 280 | 5.4 |
| 142-28-9 | 1,3-Dichloropropane | 280 | U | 280 | 25 |
| 106-46-7 | 1,4-Dichlorobenzene | 280 | U | 280 | 9.0 |
| 594-20-7 | 2,2-Dichloropropane | 280 | U | 280 | 26 |
| 78-93-3 | 2-Butanone | 1100 | U | 1100 | 48 |
| 110-75-8 | 2-Chloroethyl vinyl ether | 1100 | U | 1100 | 48 |
| 95-49-8 | 2-Chlorotoluene | 280 | U | 280 | 10 |
| 591-78-6 | 2-Hexanone | 1100 | U | 1100 | 22 |
| 106-43-4 | 4-Chlorotoluene | 280 | U | 280 | 11 |
| 108-10-1 | 4-Methyl-2-pentanone | 1100 | U | 1100 | 54 |
| 67-64-1 | Acetone | 1100 | U | 1100 | 190 |
| 71-43-2 | Benzene | 280 | U | 280 | 13 |
| 108-86-1 | Bromobenzene | 280 | U | 280 | 15 |
| 74-97-5 | Bromochloromethane | 280 | U | 280 | 15 |
| 75-27-4 | Bromodichloromethane | 280 | U | 280 | 11 |
| 75-25-2 | Bromoform | 280 | U | 280 | 21 |
| 74-83-9 | Bromomethane | 280 | U | 280 | 33 |
| 75-15-0 | Carbon disulfide | 280 | U | 280 | 13 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-SS18-0-2 Lab Sample ID: 240-13070-2

Matrix: Solid Lab File ID: 146763.D

Analysis Method: 8260B Date Collected: 07/10/2012 09:15

Sample wt/vol: 5.313(g) Date Analyzed: 07/17/2012 16:36

Soil Aliquot Vol: 100 (uL) Dilution Factor: 1

Soil Extract Vol.: 5(mL) GC Column: DB-624 ID: 0.18(mm)

% Moisture: 16.1 Level: (low/med) Medium

Analysis Batch No.: 51061 Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 56-23-5 | Carbon tetrachloride | 490 | | 280 | 7.2 |
| 108-90-7 | Chlorobenzene | 280 | U | 280 | 7.2 |
| 75-00-3 | Chloroethane | 280 | U | 280 | 68 |
| 67-66-3 | Chloroform | 55 | J | 280 | 9.9 |
| 74-87-3 | Chloromethane | 280 | U | 280 | 16 |
| 156-59-2 | cis-1,2-Dichloroethene | 280 | U | 280 | 7.7 |
| 10061-01-5 | cis-1,3-Dichloropropene | 280 | U | 280 | 8.9 |
| 124-48-1 | Dibromochloromethane | 280 | U | 280 | 13 |
| 74-95-3 | Dibromomethane | 280 | U | 280 | 16 |
| 75-71-8 | Dichlorodifluoromethane | 280 | U | 280 | 18 |
| 108-20-3 | Diisopropyl ether | 560 | U | 560 | 56 |
| 100-41-4 | Ethylbenzene | 27 | J | 280 | 6.1 |
| 637-92-3 | Ethyl-t-butyl ether (ETBE) | 280 | U | 280 | 0.25 |
| 87-68-3 | Hexachlorobutadiene | 280 | U | 280 | 16 |
| 98-82-8 | Isopropylbenzene | 8.3 | J | 280 | 7.3 |
| 1634-04-4 | Methyl tert-butyl ether | 1100 | U | 1100 | 8.0 |
| 75-09-2 | Methylene Chloride | 280 | U | 280 | 86 |
| 179601-23-1 | m-Xylene & p-Xylene | 67 | J B | 560 | 7.0 |
| 91-20-3 | Naphthalene | 23 | J B | 280 | 7.5 |
| 104-51-8 | n-Butylbenzene | 280 | U | 280 | 9.0 |
| 103-65-1 | n-Propylbenzene | 280 | U | 280 | 16 |
| 95-47-6 | o-Xylene | 49 | J | 280 | 9.5 |
| 99-87-6 | p-Isopropyltoluene | 26 | J | 280 | 5.4 |
| 135-98-8 | sec-Butylbenzene | 280 | U | 280 | 5.3 |
| 100-42-5 | Styrene | 280 | U | 280 | 6.3 |
| 994-05-8 | Tert-amyl-methyl ether (TAME) | 280 | U | 280 | 0.41 |
| 75-65-0 | tert-Butyl alcohol | 11000 | U | 11000 | 270 |
| 98-06-6 | tert-Butylbenzene | 280 | U | 280 | 7.3 |
| 127-18-4 | Tetrachloroethene | 280 | U | 280 | 13 |
| 108-88-3 | Toluene | 280 | U | 280 | 19 |
| 156-60-5 | trans-1,2-Dichloroethene | 280 | U | 280 | 10 |
| 10061-02-6 | trans-1,3-Dichloropropene | 280 | U | 280 | 22 |
| 79-01-6 | Trichloroethene | 280 | U | 280 | 11 |
| 75-69-4 | Trichlorofluoromethane | 280 | U | 280 | 18 |
| 108-05-4 | Vinyl acetate | 560 | U | 560 | 26 |
| 75-01-4 | Vinyl chloride | 280 | U | 280 | 20 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-SS18-0-2  Lab Sample ID: 240-13070-2

Matrix: Solid  Lab File ID: 146763.D

Analysis Method: 8260B  Date Collected: 07/10/2012 09:15

Sample wt/vol: 5.313(g)  Date Analyzed: 07/17/2012 16:36

Soil Aliquot Vol: 100 (uL)  Dilution Factor: 1

Soil Extract Vol.: 5(mL)  GC Column: DB-624  ID: 0.18(mm)

% Moisture: 16.1  Level: (low/med) Medium

Analysis Batch No.: 51061  Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 1330-20-7 | Xylenes, Total | 120 | J | 560 | 9.1 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 102 | | 39-128 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 100 | | 26-141 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 88 | | 30-122 |
| 2037-26-5 | Toluene-d8 (Surr) | 96 | | 33-134 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton | Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-SS18-0-2 | Lab Sample ID: 240-13070-2

Matrix: Solid | Lab File ID: 146763.D

Analysis Method: 8260B | Date Collected: 07/10/2012 09:15

Sample wt/vol: 5.313(g) | Date Analyzed: 07/17/2012 16:36

Soil Aliquot Vol: 100 (uL) | Dilution Factor: 1

Soil Extract Vol.: 5(mL) | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 16.1 | Level: (low/med) Medium

Analysis Batch No.: 51061 | Units: ug/Kg

Number TICs Found: 4 | TIC Result Total: 293

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| | Tentatively Identified Compound | | None | |
| 109-99-9 | Tetrahydrofuran | 5.99 | 80 | J |
| 110-82-7 | Cyclohexane | 6.27 | 140 | J |
| 108-87-2 | Methylcyclohexane | 7.42 | 28 | J |
| 108-67-8 | 1,3,5-Trimethylbenzene | 10.94 | 45 | J |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-SS18-8-10 Lab Sample ID: 240-13070-3

Matrix: Solid Lab File ID: 146770.D

Analysis Method: 8260B Date Collected: 07/10/2012 09:20

Sample wt/vol: 5.823(g) Date Analyzed: 07/17/2012 19:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: 14.1 Level: (low/med) Low

Analysis Batch No.: 51061 Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 5.0 | U | 5.0 | 0.62 |
| 71-55-6 | 1,1,1-Trichloroethane | 5.0 | U | 5.0 | 0.56 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5.0 | U | 5.0 | 0.34 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trichfluoroeth ane | 5.0 | U | 5.0 | 1.3 |
| 75-34-3 | 1,1-Dichloroethane | 5.0 | U | 5.0 | 0.36 |
| 75-35-4 | 1,1-Dichloroethene | 5.0 | U | 5.0 | 0.52 |
| 563-58-6 | 1,1-Dichloropropene | 5.0 | U | 5.0 | 0.30 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 5.0 | U | 5.0 | 0.38 |
| 96-18-4 | 1,2,3-Trichloropropane | 5.0 | U | 5.0 | 0.90 |
| 526-73-8 | 1,2,3-Trimethylbenzene | 3.9 | J | 5.0 | 0.17 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 5.0 | U | 5.0 | 0.27 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 5.0 | U | 5.0 | 0.65 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 10 | U | 10 | 1.3 |
| 106-93-4 | 1,2-Dibromoethane | 5.0 | U | 5.0 | 0.50 |
| 95-50-1 | 1,2-Dichlorobenzene | 5.0 | U | 5.0 | 0.36 |
| 107-06-2 | 1,2-Dichloroethane | 5.0 | U | 5.0 | 0.34 |
| 78-87-5 | 1,2-Dichloropropane | 5.0 | U * | 5.0 | 0.69 |
| 541-73-1 | 1,3-Dichlorobenzene | 5.0 | U | 5.0 | 0.35 |
| 142-28-9 | 1,3-Dichloropropane | 5.0 | U * | 5.0 | 0.34 |
| 106-46-7 | 1,4-Dichlorobenzene | 5.0 | U | 5.0 | 0.66 |
| 594-20-7 | 2,2-Dichloropropane | 5.0 | U | 5.0 | 0.94 |
| 78-93-3 | 2-Butanone | 20 | U | 20 | 1.4 |
| 110-75-8 | 2-Chloroethyl vinyl ether | 50 | U | 50 | 1.4 |
| 95-49-8 | 2-Chlorotoluene | 5.0 | U | 5.0 | 0.40 |
| 591-78-6 | 2-Hexanone | 20 | U | 20 | 0.63 |
| 106-43-4 | 4-Chlorotoluene | 5.0 | U | 5.0 | 0.41 |
| 108-10-1 | 4-Methyl-2-pentanone | 20 | U | 20 | 0.54 |
| 67-64-1 | Acetone | 20 | U | 20 | 6.3 |
| 71-43-2 | Benzene | 5.4 | | 5.0 | 0.23 |
| 108-86-1 | Bromobenzene | 5.0 | U | 5.0 | 0.33 |
| 74-97-5 | Bromochloromethane | 5.0 | U | 5.0 | 0.71 |
| 75-27-4 | Bromodichloromethane | 5.0 | U | 5.0 | 0.28 |
| 75-25-2 | Bromoform | 5.0 | U | 5.0 | 0.33 |
| 74-83-9 | Bromomethane | 5.0 | U | 5.0 | 0.54 |
| 75-15-0 | Carbon disulfide | 4.2 | J | 5.0 | 0.44 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-SS18-8-10  Lab Sample ID: 240-13070-3

Matrix: Solid  Lab File ID: 146770.D

Analysis Method: 8260B  Date Collected: 07/10/2012 09:20

Sample wt/vol: 5.823(g)  Date Analyzed: 07/17/2012 19:06

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture: 14.1  Level: (low/med) Low

Analysis Batch No.: 51061  Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 56-23-5 | Carbon tetrachloride | 78 | | 5.0 | 0.37 |
| 108-90-7 | Chlorobenzene | 5.0 | U | 5.0 | 0.33 |
| 75-00-3 | Chloroethane | 5.0 | U | 5.0 | 0.86 |
| 67-66-3 | Chloroform | 32 | | 5.0 | 0.29 |
| 74-87-3 | Chloromethane | 5.0 | U | 5.0 | 0.41 |
| 156-59-2 | cis-1,2-Dichloroethene | 5.0 | U | 5.0 | 0.36 |
| 10061-01-5 | cis-1,3-Dichloropropene | 5.0 | U | 5.0 | 0.34 |
| 124-48-1 | Dibromochloromethane | 5.0 | U | 5.0 | 0.55 |
| 74-95-3 | Dibromomethane | 5.0 | U | 5.0 | 0.63 |
| 75-71-8 | Dichlorodifluoromethane | 5.0 | U | 5.0 | 0.50 |
| 108-20-3 | Diisopropyl ether | 10 | U | 10 | 1.5 |
| 100-41-4 | Ethylbenzene | 5.0 | U | 5.0 | 0.26 |
| 637-92-3 | Ethyl-t-butyl ether (ETBE) | 5.0 | U | 5.0 | 0.22 |
| 87-68-3 | Hexachlorobutadiene | 5.0 | U | 5.0 | 1.2 |
| 98-82-8 | Isopropylbenzene | 0.95 | J | 5.0 | 0.16 |
| 1634-04-4 | Methyl tert-butyl ether | 20 | U | 20 | 0.43 |
| 75-09-2 | Methylene Chloride | 0.71 | J | 5.0 | 0.67 |
| 179601-23-1 | m-Xylene & p-Xylene | 10 | U | 10 | 1.2 |
| 91-20-3 | Naphthalene | 1.1 | J | 5.0 | 0.19 |
| 104-51-8 | n-Butylbenzene | 0.46 | J | 5.0 | 0.23 |
| 103-65-1 | n-Propylbenzene | 5.0 | U | 5.0 | 0.40 |
| 95-47-6 | o-Xylene | 2.5 | J | 5.0 | 0.35 |
| 99-87-6 | p-Isopropyltoluene | 5.0 | U | 5.0 | 0.21 |
| 135-98-8 | sec-Butylbenzene | 0.54 | J | 5.0 | 0.18 |
| 100-42-5 | Styrene | 5.0 | U | 5.0 | 0.15 |
| 994-05-8 | Tert-amyl-methyl ether (TAME) | 5.0 | U | 5.0 | 0.37 |
| 75-65-0 | tert-Butyl alcohol | 200 | U | 200 | 7.6 |
| 98-06-6 | tert-Butylbenzene | 0.45 | J | 5.0 | 0.29 |
| 127-18-4 | Tetrachloroethene | 5.0 | U | 5.0 | 0.52 |
| 108-88-3 | Toluene | 0.48 | J | 5.0 | 0.27 |
| 156-60-5 | trans-1,2-Dichloroethene | 5.0 | U | 5.0 | 0.41 |
| 10061-02-6 | trans-1,3-Dichloropropene | 5.0 | U | 5.0 | 0.54 |
| 79-01-6 | Trichloroethene | 5.0 | U | 5.0 | 0.42 |
| 75-69-4 | Trichlorofluoromethane | 5.0 | U | 5.0 | 0.34 |
| 108-05-4 | Vinyl acetate | 10 | U | 10 | 0.25 |
| 75-01-4 | Vinyl chloride | 5.0 | U | 5.0 | 0.39 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-SS18-8-10 | Lab Sample ID: 240-13070-3

Matrix: Solid | Lab File ID: 146770.D

Analysis Method: 8260B | Date Collected: 07/10/2012 09:20

Sample wt/vol: 5.823(g) | Date Analyzed: 07/17/2012 19:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 14.1 | Level: (low/med) Low

Analysis Batch No.: 51061 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 1330-20-7 | Xylenes, Total | 2.5 | J | 10 | 0.67 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 98 | | 58-123 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 102 | | 52-136 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 89 | | 37-132 |
| 2037-26-5 | Toluene-d8 (Surr) | 104 | | 67-125 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-SS18-8-10  Lab Sample ID: 240-13070-3

Matrix: Solid  Lab File ID: 146770.D

Analysis Method: 8260B  Date Collected: 07/10/2012 09:20

Sample wt/vol: 5.823(g)  Date Analyzed: 07/17/2012 19:06

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624 ID: 0.18(mm)

% Moisture: 14.1  Level: (low/med) Low

Analysis Batch No.: 51061  Units: ug/Kg

Number TICs Found: 10  TIC Result Total: 140.3

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| 78-78-4 | Butane, 2-methyl- | 2.27 | 30 | T J N |
| 96-14-0 | Pentane, 3-methyl- | 4.33 | 11 | T J N |
| 108-8-7 | Pentane, 2,4-dimethyl- | 5.44 | 8.8 | T J N |
| 110-82-7 | Cyclohexane | 6.26 | 16 | |
| 565-59-3 | Pentane, 2,3-dimethyl- | 6.33 | 8.2 | T J N |
| 594-82-1 | Butane, 2,2,3,3-tetramethyl- | 6.70 | 26 | T J N |
| 565-75-3 | Pentane, 2,3,4-trimethyl- | 7.82 | 9.7 | T J N |
| 560-21-4 | Pentane, 2,3,3-trimethyl- | 7.93 | 13 | T J N |
| 16747-26-5 | Hexane, 2,2,4-trimethyl- | 8.28 | 6.6 | T J N |
| 556-67-2 | Cyclotetrasiloxane, octamethyl- | 10.73 | 11 | T J N |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13070-1

SDG No.:

Client Sample ID: TB-071012 | Lab Sample ID: 240-13070-1

Matrix: Water | Lab File ID: UXJ5774.D

Analysis Method: 8260B | Date Collected: 07/10/2012 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2012 16:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 50744 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.23 |
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 1.0 | 0.22 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.18 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trichfluoroeth ane | 1.0 | U | 1.0 | 0.28 |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.15 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.19 |
| 563-58-6 | 1,1-Dichloropropene | 1.0 | U | 1.0 | 0.13 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 1.0 | 0.17 |
| 96-18-4 | 1,2,3-Trichloropropane | 1.0 | U | 1.0 | 0.43 |
| 526-73-8 | 1,2,3-Trimethylbenzene | 5.0 | U | 5.0 | 0.0059 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.15 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.12 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 2.0 | U | 2.0 | 0.67 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.13 |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.22 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.18 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.14 |
| 142-28-9 | 1,3-Dichloropropane | 1.0 | U | 1.0 | 0.16 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.13 |
| 594-20-7 | 2,2-Dichloropropane | 1.0 | U | 1.0 | 0.13 |
| 110-75-8 | 2-Chloroethyl vinyl ether | 10 | U | 10 | 0.99 |
| 95-49-8 | 2-Chlorotoluene | 1.0 | U | 1.0 | 0.11 |
| 591-78-6 | 2-Hexanone | 10 | U | 10 | 0.41 |
| 108-86-1 | Bromobenzene | 1.0 | U | 1.0 | 0.13 |
| 74-97-5 | Bromochloromethane | 1.0 | U | 1.0 | 0.29 |
| 106-43-4 | 4-Chlorotoluene | 1.0 | U | 1.0 | 0.18 |
| 99-87-6 | p-Isopropyltoluene | 1.0 | U | 1.0 | 0.12 |
| 67-64-1 | Acetone | 10 | U | 10 | 1.1 |
| 71-43-2 | Benzene | 1.0 | U | 1.0 | 0.13 |
| 75-25-2 | Bromoform | 1.0 | U | 1.0 | 0.64 |
| 74-83-9 | Bromomethane | 1.0 | U | 1.0 | 0.41 |
| 75-15-0 | Carbon disulfide | 1.0 | U | 1.0 | 0.13 |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 1.0 | 0.13 |
| 108-90-7 | Chlorobenzene | 1.0 | U | 1.0 | 0.15 |
| 75-00-3 | Chloroethane | 1.0 | U | 1.0 | 0.29 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Client Sample ID: TB-071012 Lab Sample ID: 240-13070-1

Matrix: Water Lab File ID: UXJ5774.D

Analysis Method: 8260B Date Collected: 07/10/2012 00:00

Sample wt/vol: 5(mL) Date Analyzed: 07/13/2012 16:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 50744 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 67-66-3 | Chloroform | 1.0 | U | 1.0 | 0.16 |
| 74-87-3 | Chloromethane | 1.0 | U | 1.0 | 0.30 |
| 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.17 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.14 |
| 87-68-3 | Hexachlorobutadiene | 1.0 | U | 1.0 | 0.30 |
| 74-95-3 | Dibromomethane | 1.0 | U | 1.0 | 0.28 |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 1.0 | 0.15 |
| 75-71-8 | Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.31 |
| 100-41-4 | Ethylbenzene | 1.0 | U | 1.0 | 0.17 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.24 |
| 108-20-3 | Diisopropyl ether | 10 | U | 10 | 1.5 |
| 91-20-3 | Naphthalene | 1.0 | U | 1.0 | 0.24 |
| 179601-23-1 | m-Xylene & p-Xylene | 2.0 | U | 2.0 | 0.24 |
| 104-51-8 | n-Butylbenzene | 1.0 | U | 1.0 | 0.12 |
| 98-82-8 | Isopropylbenzene | 1.0 | U | 1.0 | 0.13 |
| 103-65-1 | n-Propylbenzene | 1.0 | U | 1.0 | 0.14 |
| 78-93-3 | 2-Butanone | 10 | U | 10 | 0.57 |
| 108-10-1 | 4-Methyl-2-pentanone | 10 | U | 10 | 0.32 |
| 135-98-8 | sec-Butylbenzene | 1.0 | U | 1.0 | 0.13 |
| 1634-04-4 | Methyl tert-butyl ether | 5.0 | U | 5.0 | 0.17 |
| 994-05-8 | Tert-amyl-methyl ether (TAME) | 5.0 | U | 5.0 | 0.067 |
| 75-09-2 | Methylene Chloride | 1.0 | U | 1.0 | 0.33 |
| 95-47-6 | o-Xylene | 1.0 | U | 1.0 | 0.14 |
| 100-42-5 | Styrene | 1.0 | U | 1.0 | 0.11 |
| 637-92-3 | Ethyl-t-butyl ether (ETBE) | 5.0 | U | 5.0 | 0.11 |
| 98-06-6 | tert-Butylbenzene | 1.0 | U | 1.0 | 0.13 |
| 127-18-4 | Tetrachloroethene | 1.0 | U | 1.0 | 0.29 |
| 108-88-3 | Toluene | 1.0 | U | 1.0 | 0.13 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.19 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.19 |
| 79-01-6 | Trichloroethene | 1.0 | U | 1.0 | 0.17 |
| 75-69-4 | Trichlorofluoromethane | 1.0 | U | 1.0 | 0.21 |
| 108-05-4 | Vinyl acetate | 2.0 | U | 2.0 | 0.19 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 1.0 | 0.22 |
| 75-65-0 | tert-Butyl alcohol | 50 | U | 50 | 3.9 |
| 1330-20-7 | Xylenes, Total | 2.0 | U | 2.0 | 0.28 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Client Sample ID: TB-071012  Lab Sample ID: 240-13070-1

Matrix: Water  Lab File ID: UXJ5774.D

Analysis Method: 8260B  Date Collected: 07/10/2012 00:00

Sample wt/vol: 5(mL)  Date Analyzed: 07/13/2012 16:16

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 50744  Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | 1.0 | U | 1.0 | 0.18 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 85 | | 63-129 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 104 | | 66-117 |
| 2037-26-5 | Toluene-d8 (Surr) | 94 | | 74-115 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 95 | | 75-121 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Client Sample ID: TB-071012  Lab Sample ID: 240-13070-1

Matrix: Water  Lab File ID: UXJ5774.D

Analysis Method: 8260B  Date Collected: 07/10/2012 00:00

Sample wt/vol: 5(mL)  Date Analyzed: 07/13/2012 16:16

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 50744  Units: ug/L

Number TICs Found: 0  TIC Result Total: 0

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| | Tentatively Identified Compound | | None | |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-TCLP-8-10 | Lab Sample ID: 240-13070-4

Matrix: Solid (TCLP) | Lab File ID: 0716014.D

Analysis Method: 8270C | Date Collected: 07/10/2012 09:25

Extract. Method: 3510C | Date Extracted: 07/13/2012 09:58

Sample wt/vol: 250(mL) | Date Analyzed: 07/16/2012 11:16

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 50843 | Units: mg/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 106-46-7 | 1,4-Dichlorobenzene | 0.0040 | U | 0.0040 | 0.00034 |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.020 | U | 0.020 | 0.00030 |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.020 | U | 0.020 | 0.00080 |
| 121-14-2 | 2,4-Dinitrotoluene | 0.020 | U | 0.020 | 0.00027 |
| 95-48-7 | 2-Methylphenol | 0.0040 | U | 0.0040 | 0.00080 |
| 15831-10-4 | 3 & 4 Methylphenol | 0.040 | U | 0.040 | 0.00075 |
| 118-74-1 | Hexachlorobenzene | 0.020 | U | 0.020 | 0.00010 |
| 87-68-3 | Hexachlorobutadiene | 0.020 | U | 0.020 | 0.00027 |
| 67-72-1 | Hexachloroethane | 0.020 | U | 0.020 | 0.00080 |
| 98-95-3 | Nitrobenzene | 0.0040 | U | 0.0040 | 0.000040 |
| 87-86-5 | Pentachlorophenol | 0.040 | U | 0.040 | 0.0024 |
| 110-86-1 | Pyridine | 0.020 | U | 0.020 | 0.00035 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 118-79-6 | 2,4,6-Tribromophenol (Surr) | 46 | | 17-117 |
| 321-60-8 | 2-Fluorobiphenyl (Surr) | 40 | | 22-110 |
| 367-12-4 | 2-Fluorophenol (Surr) | 42 | | 10-110 |
| 4165-60-0 | Nitrobenzene-d5 (Surr) | 44 | | 29-111 |
| 4165-62-2 | Phenol-d5 (Surr) | 38 | | 10-110 |
| 1718-51-0 | Terphenyl-d14 (Surr) | 67 | | 40-119 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-SB17-0-2 | Lab Sample ID: 240-13070-5

Matrix: Solid | Lab File ID: 20723021.D

Analysis Method: 8270D | Date Collected: 07/10/2012 10:25

Extract. Method: 3540C | Date Extracted: 07/19/2012 12:29

Sample wt/vol: 29.65(g) | Date Analyzed: 07/23/2012 14:41

Con. Extract Vol.: 2.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 16.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51606 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 61 | U | 61 | 33 |
| 123-91-1 | 1,4-Dioxane | 120 | U | 120 | 27 |
| 88-06-2 | 2,4,6-Trichlorophenol | 180 | U | 180 | 97 |
| 95-95-4 | 2,4,5-Trichlorophenol | 180 | U | 180 | 30 |
| 120-83-2 | 2,4-Dichlorophenol | 180 | U | 180 | 24 |
| 105-67-9 | 2,4-Dimethylphenol | 25 | J | 180 | 24 |
| 51-28-5 | 2,4-Dinitrophenol | 400 | U | 400 | 97 |
| 121-14-2 | 2,4-Dinitrotoluene | 240 | U | 240 | 33 |
| 91-58-7 | 2-Chloronaphthalene | 61 | U | 61 | 4.0 |
| 95-57-8 | 2-Chlorophenol | 61 | U | 61 | 33 |
| 91-57-6 | 2-Methylnaphthalene | 18 | | 8.1 | 4.0 |
| 95-48-7 | 2-Methylphenol | 240 | U | 240 | 97 |
| 88-74-4 | 2-Nitroaniline | 240 | U | 240 | 11 |
| 88-75-5 | 2-Nitrophenol | 61 | U | 61 | 33 |
| 15831-10-4 | 3 & 4 Methylphenol | 480 | U | 480 | 24 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 120 | U | 120 | 22 |
| 99-09-2 | 3-Nitroaniline | 240 | U | 240 | 19 |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 180 | U | 180 | 97 |
| 101-55-3 | 4-Bromophenyl phenyl ether | 61 | U | 61 | 16 |
| 59-50-7 | 4-Chloro-3-methylphenol | 180 | U | 180 | 25 |
| 106-47-8 | 4-Chloroaniline | 180 | U | 180 | 21 |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 61 | U | 61 | 16 |
| 100-01-6 | 4-Nitroaniline | 240 | U | 240 | 31 |
| 83-32-9 | Acenaphthene | 8.1 | U | 8.1 | 4.0 |
| 208-96-8 | Acenaphthylene | 15 | | 8.1 | 4.0 |
| 98-86-2 | Acetophenone | 25 | J | 120 | 11 |
| 120-12-7 | Anthracene | 25 | | 8.1 | 4.0 |
| 1912-24-9 | Atrazine | 240 | U | 240 | 11 |
| 100-52-7 | Benzaldehyde | 120 | U | 120 | 15 |
| 56-55-3 | Benzo[a]anthracene | 110 | | 8.1 | 4.0 |
| 50-32-8 | Benzo[a]pyrene | 150 | | 8.1 | 4.0 |
| 205-99-2 | Benzo[b]fluoranthene | 190 | | 8.1 | 4.0 |
| 191-24-2 | Benzo[g,h,i]perylene | 130 | | 8.1 | 4.0 |
| 207-08-9 | Benzo[k]fluoranthene | 99 | | 8.1 | 4.0 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-SB17-0-2 | Lab Sample ID: 240-13070-5

Matrix: Solid | Lab File ID: 20723021.D

Analysis Method: 8270D | Date Collected: 07/10/2012 10:25

Extract. Method: 3540C | Date Extracted: 07/19/2012 12:29

Sample wt/vol: 29.65(g) | Date Analyzed: 07/23/2012 14:41

Con. Extract Vol.: 2.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 16.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51606 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 111-91-1 | Bis(2-chloroethoxy)methane | 120 | U | 120 | 27 |
| 111-44-4 | Bis(2-chloroethyl)ether | 120 | U | 120 | 2.4 |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 38 | J | 61 | 23 |
| 85-68-7 | Butyl benzyl phthalate | 61 | U | 61 | 12 |
| 105-60-2 | Caprolactam | 400 | U | 400 | 45 |
| 86-74-8 | Carbazole | 61 | U | 61 | 33 |
| 218-01-9 | Chrysene | 160 | | 8.1 | 1.3 |
| 84-74-2 | Di-n-butyl phthalate | 35 | J | 61 | 18 |
| 117-84-0 | Di-n-octyl phthalate | 61 | U | 61 | 33 |
| 53-70-3 | Dibenzo(a,h)anthracene | 28 | | 8.1 | 4.0 |
| 132-64-9 | Dibenzofuran | 61 | U | 61 | 4.0 |
| 84-66-2 | Diethyl phthalate | 61 | U | 61 | 19 |
| 131-11-3 | Dimethyl phthalate | 61 | U | 61 | 21 |
| 206-44-0 | Fluoranthene | 190 | | 8.1 | 4.0 |
| 86-73-7 | Fluorene | 8.1 | U | 8.1 | 4.0 |
| 118-74-1 | Hexachlorobenzene | 8.1 | U | 8.1 | 2.5 |
| 87-68-3 | Hexachlorobutadiene | 61 | U | 61 | 33 |
| 77-47-4 | Hexachlorocyclopentadiene | 400 | U | 400 | 33 |
| 67-72-1 | Hexachloroethane | 61 | U | 61 | 11 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 98 | | 8.1 | 4.0 |
| 78-59-1 | Isophorone | 61 | U | 61 | 16 |
| 621-64-7 | N-Nitrosodi-n-propylamine | 61 | U | 61 | 33 |
| 62-75-9 | N-Nitrosodimethylamine | 120 | U | 120 | 19 |
| 86-30-6 | N-Nitrosodiphenylamine | 61 | U | 61 | 25 |
| 91-20-3 | Naphthalene | 30 | | 8.1 | 4.0 |
| 98-95-3 | Nitrobenzene | 120 | U | 120 | 2.7 |
| 87-86-5 | Pentachlorophenol | 180 | U | 180 | 97 |
| 85-01-8 | Phenanthrene | 65 | | 8.1 | 4.0 |
| 108-95-2 | Phenol | 37 | J | 61 | 33 |
| 129-00-0 | Pyrene | 210 | | 8.1 | 4.0 |
| 108-60-1 | 2,2'-oxybis[1-chloropropane] | 120 | U | 120 | 11 |
| 606-20-2 | 2,6-Dinitrotoluene | 240 | U | 240 | 25 |
| 100-02-7 | 4-Nitrophenol | 400 | U | 400 | 97 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-SB17-0-2 | Lab Sample ID: 240-13070-5

Matrix: Solid | Lab File ID: 20723021.D

Analysis Method: 8270D | Date Collected: 07/10/2012 10:25

Extract. Method: 3540C | Date Extracted: 07/19/2012 12:29

Sample wt/vol: 29.65(g) | Date Analyzed: 07/23/2012 14:41

Con. Extract Vol.: 2.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 16.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51606 | Units: ug/Kg

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 1718-51-0 | Terphenyl-d14 (Surr) | 85 | | 41-119 |
| 4165-62-2 | Phenol-d5 (Surr) | 75 | | 28-110 |
| 4165-60-0 | Nitrobenzene-d5 (Surr) | 58 | | 24-112 |
| 367-12-4 | 2-Fluorophenol (Surr) | 69 | | 26-110 |
| 321-60-8 | 2-Fluorobiphenyl (Surr) | 58 | | 34-110 |
| 118-79-6 | 2,4,6-Tribromophenol (Surr) | 81 | | 10-118 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-SB17-8-10 | Lab Sample ID: 240-13070-6

Matrix: Solid | Lab File ID: 20723020.D

Analysis Method: 8270D | Date Collected: 07/10/2012 10:30

Extract. Method: 3540C | Date Extracted: 07/19/2012 12:29

Sample wt/vol: 30.27(g) | Date Analyzed: 07/23/2012 14:22

Con. Extract Vol.: 2.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 17.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51606 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 60 | U | 60 | 32 |
| 123-91-1 | 1,4-Dioxane | 120 | U | 120 | 26 |
| 88-06-2 | 2,4,6-Trichlorophenol | 180 | U | 180 | 96 |
| 95-95-4 | 2,4,5-Trichlorophenol | 180 | U | 180 | 30 |
| 120-83-2 | 2,4-Dichlorophenol | 180 | U | 180 | 24 |
| 105-67-9 | 2,4-Dimethylphenol | 180 | U | 180 | 24 |
| 51-28-5 | 2,4-Dinitrophenol | 400 | U | 400 | 96 |
| 121-14-2 | 2,4-Dinitrotoluene | 240 | U | 240 | 32 |
| 91-58-7 | 2-Chloronaphthalene | 60 | U | 60 | 4.0 |
| 95-57-8 | 2-Chlorophenol | 60 | U | 60 | 32 |
| 91-57-6 | 2-Methylnaphthalene | 8.0 | U | 8.0 | 4.0 |
| 95-48-7 | 2-Methylphenol | 240 | U | 240 | 96 |
| 88-74-4 | 2-Nitroaniline | 240 | U | 240 | 11 |
| 88-75-5 | 2-Nitrophenol | 60 | U | 60 | 32 |
| 15831-10-4 | 3 & 4 Methylphenol | 480 | U | 480 | 24 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 120 | U | 120 | 22 |
| 99-09-2 | 3-Nitroaniline | 240 | U | 240 | 19 |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 180 | U | 180 | 96 |
| 101-55-3 | 4-Bromophenyl phenyl ether | 60 | U | 60 | 16 |
| 59-50-7 | 4-Chloro-3-methylphenol | 180 | U | 180 | 25 |
| 106-47-8 | 4-Chloroaniline | 180 | U | 180 | 20 |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 60 | U | 60 | 16 |
| 100-01-6 | 4-Nitroaniline | 240 | U | 240 | 31 |
| 83-32-9 | Acenaphthene | 8.0 | U | 8.0 | 4.0 |
| 208-96-8 | Acenaphthylene | 17 | | 8.0 | 4.0 |
| 98-86-2 | Acetophenone | 120 | U | 120 | 11 |
| 120-12-7 | Anthracene | 39 | | 8.0 | 4.0 |
| 1912-24-9 | Atrazine | 240 | U | 240 | 11 |
| 100-52-7 | Benzaldehyde | 120 | U | 120 | 14 |
| 56-55-3 | Benzo[a]anthracene | 240 | | 8.0 | 4.0 |
| 50-32-8 | Benzo[a]pyrene | 310 | | 8.0 | 4.0 |
| 205-99-2 | Benzo[b]fluoranthene | 440 | | 8.0 | 4.0 |
| 191-24-2 | Benzo[g,h,i]perylene | 280 | | 8.0 | 4.0 |
| 207-08-9 | Benzo[k]fluoranthene | 230 | | 8.0 | 4.0 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-SB17-8-10 | Lab Sample ID: 240-13070-6

Matrix: Solid | Lab File ID: 20723020.D

Analysis Method: 8270D | Date Collected: 07/10/2012 10:30

Extract. Method: 3540C | Date Extracted: 07/19/2012 12:29

Sample wt/vol: 30.27(g) | Date Analyzed: 07/23/2012 14:22

Con. Extract Vol.: 2.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 17.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51606 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 111-91-1 | Bis(2-chloroethoxy)methane | 120 | U | 120 | 26 |
| 111-44-4 | Bis(2-chloroethyl)ether | 120 | U | 120 | 2.4 |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 58 | J | 60 | 23 |
| 85-68-7 | Butyl benzyl phthalate | 60 | U | 60 | 12 |
| 105-60-2 | Caprolactam | 400 | U | 400 | 45 |
| 86-74-8 | Carbazole | 60 | U | 60 | 32 |
| 218-01-9 | Chrysene | 350 | | 8.0 | 1.3 |
| 84-74-2 | Di-n-butyl phthalate | 29 | J | 60 | 18 |
| 117-84-0 | Di-n-octyl phthalate | 60 | U | 60 | 32 |
| 53-70-3 | Dibenzo(a,h)anthracene | 62 | | 8.0 | 4.0 |
| 132-64-9 | Dibenzofuran | 60 | U | 60 | 4.0 |
| 84-66-2 | Diethyl phthalate | 60 | U | 60 | 19 |
| 131-11-3 | Dimethyl phthalate | 60 | U | 60 | 20 |
| 206-44-0 | Fluoranthene | 510 | | 8.0 | 4.0 |
| 86-73-7 | Fluorene | 10 | | 8.0 | 4.0 |
| 118-74-1 | Hexachlorobenzene | 8.0 | U | 8.0 | 2.5 |
| 87-68-3 | Hexachlorobutadiene | 60 | U | 60 | 32 |
| 77-47-4 | Hexachlorocyclopentadiene | 400 | U | 400 | 32 |
| 67-72-1 | Hexachloroethane | 60 | U | 60 | 11 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 230 | | 8.0 | 4.0 |
| 78-59-1 | Isophorone | 60 | U | 60 | 16 |
| 621-64-7 | N-Nitrosodi-n-propylamine | 60 | U | 60 | 32 |
| 62-75-9 | N-Nitrosodimethylamine | 120 | U | 120 | 19 |
| 86-30-6 | N-Nitrosodiphenylamine | 60 | U | 60 | 25 |
| 91-20-3 | Naphthalene | 8.0 | U | 8.0 | 4.0 |
| 98-95-3 | Nitrobenzene | 120 | U | 120 | 2.6 |
| 87-86-5 | Pentachlorophenol | 180 | U | 180 | 96 |
| 85-01-8 | Phenanthrene | 150 | | 8.0 | 4.0 |
| 108-95-2 | Phenol | 60 | U | 60 | 32 |
| 129-00-0 | Pyrene | 450 | | 8.0 | 4.0 |
| 108-60-1 | 2,2'-oxybis[1-chloropropane] | 120 | U | 120 | 11 |
| 606-20-2 | 2,6-Dinitrotoluene | 240 | U | 240 | 25 |
| 100-02-7 | 4-Nitrophenol | 400 | U | 400 | 96 |

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-SB17-8-10  Lab Sample ID: 240-13070-6

Matrix: Solid  Lab File ID: 20723020.D

Analysis Method: 8270D  Date Collected: 07/10/2012 10:30

Extract. Method: 3540C  Date Extracted: 07/19/2012 12:29

Sample wt/vol: 30.27(g)  Date Analyzed: 07/23/2012 14:22

Con. Extract Vol.: 2.0(mL)  Dilution Factor: 1

Injection Volume: 1(uL)  Level: (low/med) Low

% Moisture: 17.6  GPC Cleanup:(Y/N) N

Analysis Batch No.: 51606  Units: ug/Kg

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 1718-51-0 | Terphenyl-d14 (Surr) | 81 | | 41-119 |
| 4165-62-2 | Phenol-d5 (Surr) | 58 | | 28-110 |
| 4165-60-0 | Nitrobenzene-d5 (Surr) | 44 | | 24-112 |
| 367-12-4 | 2-Fluorophenol (Surr) | 54 | | 26-110 |
| 321-60-8 | 2-Fluorobiphenyl (Surr) | 44 | | 34-110 |
| 118-79-6 | 2,4,6-Tribromophenol (Surr) | 75 | | 10-118 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-SS18-0-2 | Lab Sample ID: 240-13070-2

Matrix: Solid | Lab File ID: 20723018.D

Analysis Method: 8270D | Date Collected: 07/10/2012 09:15

Extract. Method: 3540C | Date Extracted: 07/19/2012 12:29

Sample wt/vol: 30.41(g) | Date Analyzed: 07/23/2012 13:44

Con. Extract Vol.: 2.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 16.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51606 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 59 | U | 59 | 32 |
| 123-91-1 | 1,4-Dioxane | 120 | U | 120 | 26 |
| 88-06-2 | 2,4,6-Trichlorophenol | 180 | U | 180 | 94 |
| 95-95-4 | 2,4,5-Trichlorophenol | 180 | U | 180 | 29 |
| 120-83-2 | 2,4-Dichlorophenol | 180 | U | 180 | 24 |
| 105-67-9 | 2,4-Dimethylphenol | 180 | U | 180 | 24 |
| 51-28-5 | 2,4-Dinitrophenol | 390 | U | 390 | 94 |
| 121-14-2 | 2,4-Dinitrotoluene | 240 | U | 240 | 32 |
| 91-58-7 | 2-Chloronaphthalene | 59 | U | 59 | 3.9 |
| 95-57-8 | 2-Chlorophenol | 59 | U | 59 | 32 |
| 91-57-6 | 2-Methylnaphthalene | 7.8 | U | 7.8 | 3.9 |
| 95-48-7 | 2-Methylphenol | 240 | U | 240 | 94 |
| 88-74-4 | 2-Nitroaniline | 240 | U | 240 | 11 |
| 88-75-5 | 2-Nitrophenol | 59 | U | 59 | 32 |
| 15831-10-4 | 3 & 4 Methylphenol | 470 | U | 470 | 24 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 120 | U | 120 | 21 |
| 99-09-2 | 3-Nitroaniline | 240 | U | 240 | 19 |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 180 | U | 180 | 94 |
| 101-55-3 | 4-Bromophenyl phenyl ether | 59 | U | 59 | 15 |
| 59-50-7 | 4-Chloro-3-methylphenol | 180 | U | 180 | 25 |
| 106-47-8 | 4-Chloroaniline | 180 | U | 180 | 20 |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 59 | U | 59 | 15 |
| 100-01-6 | 4-Nitroaniline | 240 | U | 240 | 31 |
| 83-32-9 | Acenaphthene | 7.8 | U | 7.8 | 3.9 |
| 208-96-8 | Acenaphthylene | 7.8 | U | 7.8 | 3.9 |
| 98-86-2 | Acetophenone | 120 | U | 120 | 11 |
| 120-12-7 | Anthracene | 7.8 | U | 7.8 | 3.9 |
| 1912-24-9 | Atrazine | 240 | U | 240 | 11 |
| 100-52-7 | Benzaldehyde | 120 | U | 120 | 14 |
| 56-55-3 | Benzo[a]anthracene | 7.8 | U | 7.8 | 3.9 |
| 50-32-8 | Benzo[a]pyrene | 7.8 | U | 7.8 | 3.9 |
| 205-99-2 | Benzo[b]fluoranthene | 7.8 | U | 7.8 | 3.9 |
| 191-24-2 | Benzo[g,h,i]perylene | 7.8 | U | 7.8 | 3.9 |
| 207-08-9 | Benzo[k]fluoranthene | 7.8 | U | 7.8 | 3.9 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-SS18-0-2 | Lab Sample ID: 240-13070-2

Matrix: Solid | Lab File ID: 20723018.D

Analysis Method: 8270D | Date Collected: 07/10/2012 09:15

Extract. Method: 3540C | Date Extracted: 07/19/2012 12:29

Sample wt/vol: 30.41(g) | Date Analyzed: 07/23/2012 13:44

Con. Extract Vol.: 2.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 16.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51606 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 111-91-1 | Bis(2-chloroethoxy)methane | 120 | U | 120 | 26 |
| 111-44-4 | Bis(2-chloroethyl)ether | 120 | U | 120 | 2.4 |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 34 | J | 59 | 22 |
| 85-68-7 | Butyl benzyl phthalate | 59 | U | 59 | 12 |
| 105-60-2 | Caprolactam | 390 | U | 390 | 43 |
| 86-74-8 | Carbazole | 59 | U | 59 | 32 |
| 218-01-9 | Chrysene | 7.8 | U | 7.8 | 1.3 |
| 84-74-2 | Di-n-butyl phthalate | 20 | J | 59 | 18 |
| 117-84-0 | Di-n-octyl phthalate | 59 | U | 59 | 32 |
| 53-70-3 | Dibenzo(a,h)anthracene | 7.8 | U | 7.8 | 3.9 |
| 132-64-9 | Dibenzofuran | 59 | U | 59 | 3.9 |
| 84-66-2 | Diethyl phthalate | 59 | U | 59 | 19 |
| 131-11-3 | Dimethyl phthalate | 59 | U | 59 | 20 |
| 206-44-0 | Fluoranthene | 8.7 | | 7.8 | 3.9 |
| 86-73-7 | Fluorene | 7.8 | U | 7.8 | 3.9 |
| 118-74-1 | Hexachlorobenzene | 7.8 | U | 7.8 | 2.5 |
| 87-68-3 | Hexachlorobutadiene | 59 | U | 59 | 32 |
| 77-47-4 | Hexachlorocyclopentadiene | 390 | U | 390 | 32 |
| 67-72-1 | Hexachloroethane | 59 | U | 59 | 11 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 7.8 | U | 7.8 | 3.9 |
| 78-59-1 | Isophorone | 59 | U | 59 | 15 |
| 621-64-7 | N-Nitrosodi-n-propylamine | 59 | U | 59 | 32 |
| 62-75-9 | N-Nitrosodimethylamine | 120 | U | 120 | 19 |
| 86-30-6 | N-Nitrosodiphenylamine | 59 | U | 59 | 25 |
| 91-20-3 | Naphthalene | 7.8 | U | 7.8 | 3.9 |
| 98-95-3 | Nitrobenzene | 120 | U | 120 | 2.6 |
| 87-86-5 | Pentachlorophenol | 180 | U | 180 | 94 |
| 85-01-8 | Phenanthrene | 7.8 | U | 7.8 | 3.9 |
| 108-95-2 | Phenol | 59 | U | 59 | 32 |
| 129-00-0 | Pyrene | 7.8 | U | 7.8 | 3.9 |
| 108-60-1 | 2,2'-oxybis[1-chloropropane] | 120 | U | 120 | 11 |
| 606-20-2 | 2,6-Dinitrotoluene | 240 | U | 240 | 25 |
| 100-02-7 | 4-Nitrophenol | 390 | U | 390 | 94 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-SS18-0-2 | Lab Sample ID: 240-13070-2

Matrix: Solid | Lab File ID: 20723018.D

Analysis Method: 8270D | Date Collected: 07/10/2012 09:15

Extract. Method: 3540C | Date Extracted: 07/19/2012 12:29

Sample wt/vol: 30.41(g) | Date Analyzed: 07/23/2012 13:44

Con. Extract Vol.: 2.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 16.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51606 | Units: ug/Kg

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 1718-51-0 | Terphenyl-d14 (Surr) | 84 | | 41-119 |
| 4165-62-2 | Phenol-d5 (Surr) | 71 | | 28-110 |
| 4165-60-0 | Nitrobenzene-d5 (Surr) | 54 | | 24-112 |
| 367-12-4 | 2-Fluorophenol (Surr) | 68 | | 26-110 |
| 321-60-8 | 2-Fluorobiphenyl (Surr) | 46 | | 34-110 |
| 118-79-6 | 2,4,6-Tribromophenol (Surr) | 68 | | 10-118 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-SS18-8-10 | Lab Sample ID: 240-13070-3

Matrix: Solid | Lab File ID: 20723019.D

Analysis Method: 8270D | Date Collected: 07/10/2012 09:20

Extract. Method: 3540C | Date Extracted: 07/19/2012 12:29

Sample wt/vol: 29.75(g) | Date Analyzed: 07/23/2012 14:03

Con. Extract Vol.: 2.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 14.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51606 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 59 | U | 59 | 32 |
| 123-91-1 | 1,4-Dioxane | 120 | U | 120 | 26 |
| 88-06-2 | 2,4,6-Trichlorophenol | 180 | U | 180 | 94 |
| 95-95-4 | 2,4,5-Trichlorophenol | 180 | U | 180 | 29 |
| 120-83-2 | 2,4-Dichlorophenol | 180 | U | 180 | 23 |
| 105-67-9 | 2,4-Dimethylphenol | 180 | U | 180 | 23 |
| 51-28-5 | 2,4-Dinitrophenol | 390 | U | 390 | 94 |
| 121-14-2 | 2,4-Dinitrotoluene | 230 | U | 230 | 32 |
| 91-58-7 | 2-Chloronaphthalene | 59 | U | 59 | 3.9 |
| 95-57-8 | 2-Chlorophenol | 59 | U | 59 | 32 |
| 91-57-6 | 2-Methylnaphthalene | 7.8 | U | 7.8 | 3.9 |
| 95-48-7 | 2-Methylphenol | 230 | U | 230 | 94 |
| 88-74-4 | 2-Nitroaniline | 230 | U | 230 | 11 |
| 88-75-5 | 2-Nitrophenol | 59 | U | 59 | 32 |
| 15831-10-4 | 3 & 4 Methylphenol | 470 | U | 470 | 23 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 120 | U | 120 | 21 |
| 99-09-2 | 3-Nitroaniline | 230 | U | 230 | 19 |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 180 | U | 180 | 94 |
| 101-55-3 | 4-Bromophenyl phenyl ether | 59 | U | 59 | 15 |
| 59-50-7 | 4-Chloro-3-methylphenol | 180 | U | 180 | 25 |
| 106-47-8 | 4-Chloroaniline | 180 | U | 180 | 20 |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 59 | U | 59 | 15 |
| 100-01-6 | 4-Nitroaniline | 230 | U | 230 | 31 |
| 83-32-9 | Acenaphthene | 7.8 | U | 7.8 | 3.9 |
| 208-96-8 | Acenaphthylene | 7.8 | U | 7.8 | 3.9 |
| 98-86-2 | Acetophenone | 120 | U | 120 | 11 |
| 120-12-7 | Anthracene | 7.8 | U | 7.8 | 3.9 |
| 1912-24-9 | Atrazine | 230 | U | 230 | 11 |
| 100-52-7 | Benzaldehyde | 120 | U | 120 | 14 |
| 56-55-3 | Benzo[a]anthracene | 7.8 | U | 7.8 | 3.9 |
| 50-32-8 | Benzo[a]pyrene | 7.8 | U | 7.8 | 3.9 |
| 205-99-2 | Benzo[b]fluoranthene | 7.8 | U | 7.8 | 3.9 |
| 191-24-2 | Benzo[g,h,i]perylene | 7.8 | U | 7.8 | 3.9 |
| 207-08-9 | Benzo[k]fluoranthene | 7.8 | U | 7.8 | 3.9 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-SS18-8-10 | Lab Sample ID: 240-13070-3

Matrix: Solid | Lab File ID: 20723019.D

Analysis Method: 8270D | Date Collected: 07/10/2012 09:20

Extract. Method: 3540C | Date Extracted: 07/19/2012 12:29

Sample wt/vol: 29.75(g) | Date Analyzed: 07/23/2012 14:03

Con. Extract Vol.: 2.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 14.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51606 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 111-91-1 | Bis(2-chloroethoxy)methane | 120 | U | 120 | 26 |
| 111-44-4 | Bis(2-chloroethyl)ether | 120 | U | 120 | 2.3 |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 25 | J | 59 | 22 |
| 85-68-7 | Butyl benzyl phthalate | 59 | U | 59 | 12 |
| 105-60-2 | Caprolactam | 390 | U | 390 | 43 |
| 86-74-8 | Carbazole | 59 | U | 59 | 32 |
| 218-01-9 | Chrysene | 7.8 | U | 7.8 | 1.3 |
| 84-74-2 | Di-n-butyl phthalate | 59 | U | 59 | 18 |
| 117-84-0 | Di-n-octyl phthalate | 59 | U | 59 | 32 |
| 53-70-3 | Dibenzo(a,h)anthracene | 7.8 | U | 7.8 | 3.9 |
| 132-64-9 | Dibenzofuran | 59 | U | 59 | 3.9 |
| 84-66-2 | Diethyl phthalate | 59 | U | 59 | 19 |
| 131-11-3 | Dimethyl phthalate | 59 | U | 59 | 20 |
| 206-44-0 | Fluoranthene | 7.8 | U | 7.8 | 3.9 |
| 86-73-7 | Fluorene | 7.8 | U | 7.8 | 3.9 |
| 118-74-1 | Hexachlorobenzene | 7.8 | U | 7.8 | 2.5 |
| 87-68-3 | Hexachlorobutadiene | 59 | U | 59 | 32 |
| 77-47-4 | Hexachlorocyclopentadiene | 390 | U | 390 | 32 |
| 67-72-1 | Hexachloroethane | 59 | U | 59 | 11 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 7.8 | U | 7.8 | 3.9 |
| 78-59-1 | Isophorone | 59 | U | 59 | 15 |
| 621-64-7 | N-Nitrosodi-n-propylamine | 59 | U | 59 | 32 |
| 62-75-9 | N-Nitrosodimethylamine | 120 | U | 120 | 19 |
| 86-30-6 | N-Nitrosodiphenylamine | 59 | U | 59 | 25 |
| 91-20-3 | Naphthalene | 7.8 | U | 7.8 | 3.9 |
| 98-95-3 | Nitrobenzene | 120 | U | 120 | 2.6 |
| 87-86-5 | Pentachlorophenol | 180 | U | 180 | 94 |
| 85-01-8 | Phenanthrene | 7.8 | U | 7.8 | 3.9 |
| 108-95-2 | Phenol | 59 | U | 59 | 32 |
| 129-00-0 | Pyrene | 7.8 | U | 7.8 | 3.9 |
| 108-60-1 | 2,2'-oxybis[1-chloropropane] | 120 | U | 120 | 11 |
| 606-20-2 | 2,6-Dinitrotoluene | 230 | U | 230 | 25 |
| 100-02-7 | 4-Nitrophenol | 390 | U | 390 | 94 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-SS18-8-10 | Lab Sample ID: 240-13070-3

Matrix: Solid | Lab File ID: 20723019.D

Analysis Method: 8270D | Date Collected: 07/10/2012 09:20

Extract. Method: 3540C | Date Extracted: 07/19/2012 12:29

Sample wt/vol: 29.75(g) | Date Analyzed: 07/23/2012 14:03

Con. Extract Vol.: 2.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 14.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51606 | Units: ug/Kg

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 1718-51-0 | Terphenyl-d14 (Surr) | 86 | | 41-119 |
| 4165-62-2 | Phenol-d5 (Surr) | 66 | | 28-110 |
| 4165-60-0 | Nitrobenzene-d5 (Surr) | 51 | | 24-112 |
| 367-12-4 | 2-Fluorophenol (Surr) | 62 | | 26-110 |
| 321-60-8 | 2-Fluorobiphenyl (Surr) | 49 | | 34-110 |
| 118-79-6 | 2,4,6-Tribromophenol (Surr) | 65 | | 10-118 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-SB17-0-2  Lab Sample ID: 240-13070-5

Matrix: Solid  Lab File ID: YF071814.D

Analysis Method: 8015C  Date Collected: 07/10/2012 10:25

Sample wt/vol: 5(g)  Date Analyzed: 07/18/2012 21:23

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-VRX  ID: 0.45(mm)

% Moisture: 16.4  Level: (low/med) Low

Analysis Batch No.: 51212  Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 8006-61-9 | Total Petroleum Hydrocarbons (C6-C10) | 130 | | 120 | 55 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 98-08-8 | Trifluorotoluene (Surr) | 74 | | 10-150 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-SB17-8-10  Lab Sample ID: 240-13070-6

Matrix: Solid  Lab File ID: YF071815.D

Analysis Method: 8015C  Date Collected: 07/10/2012 10:30

Sample wt/vol: 5(g)  Date Analyzed: 07/18/2012 22:01

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-VRX  ID: 0.45(mm)

% Moisture: 17.6  Level: (low/med) Low

Analysis Batch No.: 51212  Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 8006-61-9 | Total Petroleum Hydrocarbons (C6-C10) | 120 | U | 120 | 56 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 98-08-8 | Trifluorotoluene (Surr) | 85 | | 10-150 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-SS18-0-2  Lab Sample ID: 240-13070-2

Matrix: Solid  Lab File ID: YF071812.D

Analysis Method: 8015C  Date Collected: 07/10/2012 09:15

Sample wt/vol: 5(g)  Date Analyzed: 07/18/2012 20:06

Soil Aliquot Vol:  Dilution Factor: 2

Soil Extract Vol.:  GC Column: RTX-VRX  ID: 0.45(mm)

% Moisture: 16.1  Level: (low/med) Low

Analysis Batch No.: 51212  Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 8006-61-9 | Total Petroleum Hydrocarbons (C6-C10) | 380 | | 240 | 110 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 98-08-8 | Trifluorotoluene (Surr) | 78 | | 10-150 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-SS18-8-10  Lab Sample ID: 240-13070-3

Matrix: Solid  Lab File ID: YF071813.D

Analysis Method: 8015C  Date Collected: 07/10/2012 09:20

Sample wt/vol: 5(g)  Date Analyzed: 07/18/2012 20:45

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-VRX  ID: 0.45(mm)

% Moisture: 14.1  Level: (low/med) Low

Analysis Batch No.: 51212  Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 8006-61-9 | Total Petroleum Hydrocarbons (C6-C10) | 120 | U | 120 | 54 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 98-08-8 | Trifluorotoluene (Surr) | 83 | | 10-150 |

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-SB17-0-2  Lab Sample ID: 240-13070-5

Matrix: Solid  Lab File ID: P5B72605.D

Analysis Method: 8015C  Date Collected: 07/10/2012 10:25

Extraction Method: 3540C  Date Extracted: 07/20/2012 11:12

Sample wt/vol: 29.95(g)  Date Analyzed: 07/26/2012 16:09

Con. Extract Vol.: 5.0(mL)  Dilution Factor: 1

Injection Volume: 1(uL)  GC Column:  ID:

% Moisture: 16.4  GPC Cleanup:(Y/N) N

Analysis Batch No.: 52120  Units: mg/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| STL00141 | Total Petroleum Hydrocarbons (C10-C32) | 240 | | 20 | 11 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 111-84-2 | n-Nonane | 35 | | 10-110 |

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-SB17-8-10 | Lab Sample ID: 240-13070-6

Matrix: Solid | Lab File ID: P5B72606.D

Analysis Method: 8015C | Date Collected: 07/10/2012 10:30

Extraction Method: 3540C | Date Extracted: 07/20/2012 11:12

Sample wt/vol: 30.12(g) | Date Analyzed: 07/26/2012 16:40

Con. Extract Vol.: 5.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ID:

% Moisture: 17.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 52120 | Units: mg/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| STL00141 | Total Petroleum Hydrocarbons (C10-C32) | 28 | | 20 | 11 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 111-84-2 | n-Nonane | 38 | | 10-110 |

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-SS18-0-2  Lab Sample ID: 240-13070-2

Matrix: Solid  Lab File ID: P5B72508.D

Analysis Method: 8015C  Date Collected: 07/10/2012 09:15

Extraction Method: 3540C  Date Extracted: 07/20/2012 11:12

Sample wt/vol: 29.67(g)  Date Analyzed: 07/25/2012 15:34

Con. Extract Vol.: 5.0(mL)  Dilution Factor: 1

Injection Volume: 1(uL)  GC Column: ID:

% Moisture: 16.1  GPC Cleanup:(Y/N) N

Analysis Batch No.: 51968  Units: mg/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| STL00141 | Total Petroleum Hydrocarbons (C10-C32) | 20 | U | 20 | 11 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 111-84-2 | n-Nonane | 36 | | 10-110 |

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-SS18-8-10 | Lab Sample ID: 240-13070-3

Matrix: Solid | Lab File ID: P5B72511.D

Analysis Method: 8015C | Date Collected: 07/10/2012 09:20

Extraction Method: 3540C | Date Extracted: 07/20/2012 11:12

Sample wt/vol: 30.21(g) | Date Analyzed: 07/25/2012 17:05

Con. Extract Vol.: 5.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ID:

% Moisture: 14.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51968 | Units: mg/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| STL00141 | Total Petroleum Hydrocarbons (C10-C32) | 19 | U | 19 | 11 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 111-84-2 | n-Nonane | 32 | | 10-110 |

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-TCLP-8-10  Lab Sample ID: 240-13070-4

Matrix: Solid (TCLP)  Lab File ID: P9701627.D

Analysis Method: 8081A  Date Collected: 07/10/2012 09:25

Extraction Method: 3510C  Date Extracted: 07/13/2012 10:01

Sample wt/vol: 250(mL)  Date Analyzed: 07/16/2012 19:35

Con. Extract Vol.: 3(mL)  Dilution Factor: 1

Injection Volume: 1(uL)  GC Column: CLP-2  ID: 0.53(mm)

% Moisture:  GPC Cleanup:(Y/N) N

Analysis Batch No.: 50850  Units: mg/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 57-74-9 | Chlordane (technical) | 0.012 | U | 0.012 | 0.000079 |
| 72-20-8 | Endrin | 0.0012 | U | 0.0012 | 0.000026 |
| 58-89-9 | gamma-BHC (Lindane) | 0.0012 | U | 0.0012 | 0.000015 |
| 76-44-8 | Heptachlor | 0.0012 | U | 0.0012 | 0.000019 |
| 1024-57-3 | Heptachlor epoxide | 0.0012 | U | 0.0012 | 0.000017 |
| 72-43-5 | Methoxychlor | 0.0024 | U | 0.0024 | 0.000077 |
| 8001-35-2 | Toxaphene | 0.048 | U | 0.048 | 0.00077 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 2051-24-3 | DCB Decachlorobiphenyl | 88 | | 34-141 |
| 877-09-8 | Tetrachloro-m-xylene | 81 | | 46-122 |

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-TCLP-8-10  Lab Sample ID: 240-13070-4

Matrix: Solid (TCLP)  Lab File ID: P9701627.D

Analysis Method: 8081A  Date Collected: 07/10/2012 09:25

Extraction Method: 3510C  Date Extracted: 07/13/2012 10:01

Sample wt/vol: 250(mL)  Date Analyzed: 07/16/2012 19:35

Con. Extract Vol.: 3(mL)  Dilution Factor: 1

Injection Volume: 1(uL)  GC Column: CLP-1  ID: 0.53(mm)

% Moisture:  GPC Cleanup:(Y/N) N

Analysis Batch No.: 50850  Units: mg/L

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 2051-24-3 | DCB Decachlorobiphenyl | 103 | | 34-141 |
| 877-09-8 | Tetrachloro-m-xylene | 91 | | 46-122 |

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-SB17-0-2 | Lab Sample ID: 240-13070-5

Matrix: Solid | Lab File ID: P1100006.D

Analysis Method: 8082A | Date Collected: 07/10/2012 10:25

Extraction Method: 3540C | Date Extracted: 07/19/2012 10:47

Sample wt/vol: 29.81(g) | Date Analyzed: 07/23/2012 14:21

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(mL) | GC Column: CLP-2 ID: 0.53(mm)

% Moisture: 16.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51690 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 40 | U | 40 | 25 |
| 11104-28-2 | Aroclor-1221 | 40 | U | 40 | 19 |
| 11141-16-5 | Aroclor-1232 | 40 | U | 40 | 17 |
| 53469-21-9 | Aroclor-1242 | 40 | U | 40 | 16 |
| 12672-29-6 | Aroclor-1248 | 40 | U | 40 | 20 |
| 11097-69-1 | Aroclor-1254 | 40 | U | 40 | 20 |
| 11096-82-5 | Aroclor-1260 | 40 | U | 40 | 20 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 877-09-8 | Tetrachloro-m-xylene | 76 | | 29-151 |
| 2051-24-3 | Decachlorobiphenyl | 90 | | 14-163 |

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-SB17-8-10 | Lab Sample ID: 240-13070-6

Matrix: Solid | Lab File ID: P1100007.D

Analysis Method: 8082A | Date Collected: 07/10/2012 10:30

Extraction Method: 3540C | Date Extracted: 07/19/2012 10:47

Sample wt/vol: 29.64(g) | Date Analyzed: 07/23/2012 14:35

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(mL) | GC Column: CLP-2 ID: 0.53(mm)

% Moisture: 17.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51690 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 41 | U | 41 | 26 |
| 11104-28-2 | Aroclor-1221 | 41 | U | 41 | 20 |
| 11141-16-5 | Aroclor-1232 | 41 | U | 41 | 17 |
| 53469-21-9 | Aroclor-1242 | 41 | U | 41 | 16 |
| 12672-29-6 | Aroclor-1248 | 41 | U | 41 | 21 |
| 11097-69-1 | Aroclor-1254 | 41 | U | 41 | 21 |
| 11096-82-5 | Aroclor-1260 | 41 | U | 41 | 21 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 877-09-8 | Tetrachloro-m-xylene | 75 | | 29-151 |
| 2051-24-3 | Decachlorobiphenyl | 108 | | 14-163 |

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-SS18-0-2 | Lab Sample ID: 240-13070-2

Matrix: Solid | Lab File ID: P1100004.D

Analysis Method: 8082A | Date Collected: 07/10/2012 09:15

Extraction Method: 3540C | Date Extracted: 07/19/2012 10:47

Sample wt/vol: 29.72(g) | Date Analyzed: 07/23/2012 13:54

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(mL) | GC Column: CLP-2 ID: 0.53(mm)

% Moisture: 16.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51690 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 40 | U | 40 | 25 |
| 11104-28-2 | Aroclor-1221 | 40 | U | 40 | 19 |
| 11141-16-5 | Aroclor-1232 | 40 | U | 40 | 17 |
| 53469-21-9 | Aroclor-1242 | 40 | U | 40 | 16 |
| 12672-29-6 | Aroclor-1248 | 40 | U | 40 | 20 |
| 11097-69-1 | Aroclor-1254 | 40 | U | 40 | 20 |
| 11096-82-5 | Aroclor-1260 | 40 | U | 40 | 20 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 877-09-8 | Tetrachloro-m-xylene | 69 | | 29-151 |
| 2051-24-3 | Decachlorobiphenyl | 83 | | 14-163 |

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-SS18-8-10 | Lab Sample ID: 240-13070-3

Matrix: Solid | Lab File ID: P1100005.D

Analysis Method: 8082A | Date Collected: 07/10/2012 09:20

Extraction Method: 3540C | Date Extracted: 07/19/2012 10:47

Sample wt/vol: 29.59(g) | Date Analyzed: 07/23/2012 14:07

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(mL) | GC Column: CLP-2 ID: 0.53(mm)

% Moisture: 14.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51690 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 39 | U | 39 | 25 |
| 11104-28-2 | Aroclor-1221 | 39 | U | 39 | 19 |
| 11141-16-5 | Aroclor-1232 | 39 | U | 39 | 17 |
| 53469-21-9 | Aroclor-1242 | 39 | U | 39 | 15 |
| 12672-29-6 | Aroclor-1248 | 39 | U | 39 | 20 |
| 11097-69-1 | Aroclor-1254 | 39 | U | 39 | 20 |
| 11096-82-5 | Aroclor-1260 | 39 | U | 39 | 20 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 877-09-8 | Tetrachloro-m-xylene | 85 | | 29-151 |
| 2051-24-3 | Decachlorobiphenyl | 97 | | 14-163 |

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-TCLP-8-10  Lab Sample ID: 240-13070-4

Matrix: Solid (TCLP)  Lab File ID: P1000023.D

Analysis Method: 8151A  Date Collected: 07/10/2012 09:25

Extraction Method: 8151A  Date Extracted: 07/13/2012 10:04

Sample wt/vol: 100(mL)  Date Analyzed: 07/23/2012 20:26

Con. Extract Vol.: 10(mL)  Dilution Factor: 1

Injection Volume: 1(uL)  GC Column: CLP-1  ID: 0.53(mm)

% Moisture:  GPC Cleanup:(Y/N) N

Analysis Batch No.: 51638  Units: mg/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 94-75-7 | 2,4-D | 0.0020 | U | 0.0020 | 0.00021 |
| 93-72-1 | Silvex (2,4,5-TP) | 0.00050 | U | 0.00050 | 0.00010 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 19719-28-9 | 2,4-Dichlorophenylacetic acid | 48 | | 37-116 |

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-TCLP-8-10  Lab Sample ID: 240-13070-4

Matrix: Solid (TCLP)  Lab File ID: P1000023.D

Analysis Method: 8151A  Date Collected: 07/10/2012 09:25

Extraction Method: 8151A  Date Extracted: 07/13/2012 10:04

Sample wt/vol: 100(mL)  Date Analyzed: 07/23/2012 20:26

Con. Extract Vol.: 10(mL)  Dilution Factor: 1

Injection Volume: 1(uL)  GC Column: CLP-2  ID: 0.53(mm)

% Moisture:  GPC Cleanup:(Y/N) N

Analysis Batch No.: 51638  Units: mg/L

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 19719-28-9 | 2,4-Dichlorophenylacetic acid | 67 | | 37-116 |

## Appendix C

Support Documentation

# CASE NARRATIVE

## Client: Tetra Tech, Inc

## Project: LM MSA Main Terminal Phase II Investigat

## Report Number: 240-13070-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client

**RECEIPT**

The samples were received on 07/11/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 0.6 C.

Samples MT-TCLP-8-10 was not logged for PCB's per client. Samples MT-SS18-0-2, MM-SB18-8-10, MT-SB17-0-2, and MT-SB17-8-10 were logged for DRO per client.

**TCLP VOLATILE ORGANIC COMPOUNDS (GC-MS)**

Sample MT-TCLP-8-10 (240-13070-4) was analyzed for TCLP volatile organic compounds (GC-MS) in accordance with EPA SW-846 Methods 1311/8260B. The samples were leached on 07/12/2012 and analyzed on 07/13/2012.

No difficulties were encountered during the VOCs analysis. All quality control parameters were within the acceptance limits.

**VOLATILE ORGANIC COMPOUNDS (GC-MS)**

Samples MT-SS18-0-2 (240-13070-2), MT-SS18-8-10 (240-13070-3), MT-SB17-0-2 (240-13070-5) and MT-SB17-8-10 (240-13070-6) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were prepared on 07/11/2012 and 07/12/2012 and analyzed on 07/16/2012 and 07/17/2012.

1,2,4-Trichlorobenzene was detected in method blank MB 240-50627/1-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. 1,3-Dichlorobenzene, m-Xylene & p-Xylene and Naphthalene were detected in method blank MB 240-50627/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

Several analytes were detected in method blank MB 240-50900/6 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

Several analytes were detected in method blank MB 240-51061/6 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

The laboratory control sample (LCS) for batch 50627 recovered outside acceptance limits for 1,2-Dichloroethane and 1,2-Dichloropropane. There was insufficient sample to perform a re-extraction or re-analysis; therefore, the data have been reported.

The laboratory control sample (LCS) for batch 50900 exceeded control limits for the following analytes: Chlorobenzene, 1,3-Dichloropropane, and 1,2-Dichloropropane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The laboratory control sample (LCS) for batch 51061 exceeded control limits for the following analytes: 1,2-Dichloropropane and 1,3-Dichloropropane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

There was a MS/MSD prepared for batch 50627 but could not be reported because of the high dilution factor in the parent sample.

Vinyl acetate failed the recovery criteria low for the MS/MSD of sample 240-13217-1 in batch 240-50900. Vinyl acetate exceeded the rpd limit.

Vinyl acetate failed the recovery criteria low for the MS/MSD of sample 240-13194-2 in batch 240-51061.

No other difficulties were encountered during the VOCs analyses. All other quality control parameters were within the acceptance limits.

**VOLATILE ORGANIC COMPOUNDS (GC-MS)**

Sample TB-071012 (240-13070-1) was analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 07/13/2012.

2-Chloroethyl vinyl ether failed the recovery criteria low for the MS of sample 240-13078-2 in batch 240-50744. Several analytes failed the recovery criteria low for the MSD of sample 240-13078-2 in batch 240-50744. 1,1,2-Trichloro-1,2,2-trichfluoroethane and Dichlorodifluoromethane exceeded the rpd limit.

No other difficulties were encountered during the VOCs analysis. All other quality control parameters were within the acceptance limits.

**TCLP SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)**

Sample MT-TCLP-8-10 (240-13070-4) was analyzed for TCLP semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Methods 1311/8270C. The samples were leached on 07/12/2012, prepared on 07/13/2012 and analyzed on 07/16/2012.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out and no corrective action is required.

No difficulties were encountered during the SVOCs analysis. All quality control parameters were within the acceptance limits.

**SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)**

Samples MT-SS18-0-2 (240-13070-2), MT-SS18-8-10 (240-13070-3), MT-SB17-0-2 (240-13070-5) and MT-SB17-8-10 (240-13070-6) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 07/19/2012 and analyzed on 07/23/2012.

Hexachlorocyclopentadiene failed the recovery criteria low for the MS/MSD of sample MT-SB17-0-2 (240-13070-5) in batch 240-51606.

No other difficulties were encountered during the SVOCs analyses. All other quality control parameters were within the acceptance limits.

**GASOLINE RANGE ORGANICS (GRO)**

Samples MT-SS18-0-2 (240-13070-2), MT-SS18-8-10 (240-13070-3), MT-SB17-0-2 (240-13070-5) and MT-SB17-8-10 (240-13070-6) were analyzed for gasoline range organics (GRO) in accordance with EPA-SW-846 Method 8015C - GRO. The samples were analyzed on 07/18/2012.

Sample MT-SS18-0-2 (240-13070-2)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the GRO analyses. All quality control parameters were within the acceptance limits.

**DIESEL RANGE ORGANICS (DRO)**

Samples MT-SS18-0-2 (240-13070-2), MT-SS18-8-10 (240-13070-3), MT-SB17-0-2 (240-13070-5) and MT-SB17-8-10 (240-13070-6) were analyzed for diesel range organics (DRO) in accordance with EPA SW-846 Method 8015C - DRO. The samples were prepared on 07/20/2012 and analyzed on 07/25/2012 and 07/26/2012.

No difficulties were encountered during the DRO analyses. All quality control parameters were within the acceptance limits.

**TCLP CHLORINATED PESTICIDES**

Sample MT-TCLP-8-10 (240-13070-4) was analyzed for TCLP chlorinated pesticides in accordance with EPA SW-846 Methods 1311/ 8081A. The samples were leached on 07/12/2012, prepared on 07/13/2012 and analyzed on 07/16/2012.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are

diluted out and no corrective action is required.

The grand mean exception, as outlined in EPA Method 8000B, was applied to the opening and closing continuing calibration verification (CCV) standards associated with batch 50850 This rule states that when one or more compounds in the CCV fail to meet acceptance criteria, the initial calibration (ICAL) may be used for quantitation if the average %D (the grand mean) of all the compounds in the CCV is less than or equal to 15 %D. Sample MT-TCLP-8-10 (240-13070-4), associated with these CCVs, was non-detect for the affected analytes; therefore, the data were reported.

No other difficulties were encountered during the pesticides analysis. All quality control parameters were within the acceptance limits.

**POLYCHLORINATED BIPHENYLS (PCBS)**

Samples MT-SS18-0-2 (240-13070-2), MT-SS18-8-10 (240-13070-3), MT-SB17-0-2 (240-13070-5) and MT-SB17-8-10 (240-13070-6) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082A. The samples were prepared on 07/19/2012 and analyzed on 07/23/2012.

The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: MT-SB17-0-2 (240-13070-5), MT-SB17-8-10 (240-13070-6), and MT-SS18-0-2 (240-13070-2). Lot # S65830.

No other difficulties were encountered during the PCBs analyses. All quality control parameters were within the acceptance limits.

**TCLP CHLORINATED HERBICIDES**

Sample MT-TCLP-8-10 (240-13070-4) was analyzed for TCLP chlorinated herbicides in accordance with EPA SW-846 Methods 1311/ 8151A. The samples were leached on 07/12/2012, prepared on 07/13/2012 and analyzed on 07/23/2012.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required.

No difficulties were encountered during the herbicides analysis. All quality control parameters were within the acceptance limits.

**TCLP METALS (ICP)**

Sample MT-TCLP-8-10 (240-13070-4) was analyzed for TCLP metals (ICP) in accordance with EPA SW-846 Methods 1311/ 6010B. The samples were leached on 07/12/2012, prepared on 07/13/2012 and analyzed on 07/16/2012.

Barium was detected in method blank LB 240-50668/1-D at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

No other difficulties were encountered during the metals analysis. All other quality control parameters were within the acceptance limits.

**TOTAL METALS (ICP)**

Samples MT-SS18-0-2 (240-13070-2), MT-SS18-8-10 (240-13070-3), MT-SB17-0-2 (240-13070-5) and MT-SB17-8-10 (240-13070-6) were analyzed for total metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 07/12/2012 and analyzed on 07/16/2012 and 07/17/2012.

Antimony, Barium and Beryllium were detected in method blank MB 240-50598/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

Several analytes failed the recovery criteria low for the MS of sample 240-13043-2 in batch 240-51051. Antimony, Chromium, Selenium and Vanadium failed the recovery criteria low for the MSD of sample 240-13043-2 in batch 240-51051.

The continuing calibration verification (CCV) for Silver and Arsenic associated with batch 50963 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data for the following associated sample have been reported. MT-TCLP-8-10 (240-13070-4)

No other difficulties were encountered during the metals analyses. All other quality control parameters were within the acceptance limits.

**TCLP MERCURY**

Sample MT-TCLP-8-10 (240-13070-4) was analyzed for TCLP mercury in accordance with EPA SW-846 Methods 1311/7470A. The samples were leached on 07/12/2012, prepared on 07/13/2012 and analyzed on 07/16/2012.

No difficulties were encountered during the mercury analysis. All quality control parameters were within the acceptance limits.

**MERCURY**

Samples MT-SS18-0-2 (240-13070-2), MT-SS18-8-10 (240-13070-3), MT-SB17-0-2 (240-13070-5) and MT-SB17-8-10 (240-13070-6) were analyzed for mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared on 07/12/2012 and analyzed on 07/13/2012.

No difficulties were encountered during the mercury analyses. All quality control parameters were within the acceptance limits.

**PERCENT SOLIDS**

Samples MT-SS18-0-2 (240-13070-2), MT-SS18-8-10 (240-13070-3), MT-SB17-0-2 (240-13070-5) and MT-SB17-8-10 (240-13070-6) were analyzed for percent solids in accordance with EPA Method 160.3 MOD. The samples were analyzed on 07/11/2012 and 07/12/2012.

No difficulties were encountered during the % solids analyses. All quality control parameters were within the acceptance limits.

# METHOD SUMMARY

Client: Tetra Tech, Inc

Job Number: 240-13070-1

| Description | Lab Location | Method | Preparation Method |
|---|---|---|---|
| **Matrix: Solid** | | | |
| Volatile Organic Compounds (GC/MS) | TAL NC | SW846 8260B | |
| Closed System Purge and Trap | TAL NC | | SW846 5035 |
| Volatile Organic Compounds (GC/MS) | TAL NC | SW846 8260B | |
| TCLP Extraction | TAL NC | | SW846 1311 |
| Purge and Trap | TAL NC | | SW846 5030B |
| Semivolatile Organic Compounds (GC/MS) | TAL NC | SW846 8270C | |
| TCLP Extraction | TAL NC | | SW846 1311 |
| Liquid-Liquid Extraction (Separatory Funnel) | TAL NC | | SW846 3510C |
| Semivolatile Organic Compounds (GC/MS) | TAL NC | SW846 8270D | |
| Soxhlet Extraction | TAL NC | | SW846 3540C |
| Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics) | TAL NC | SW846 8015C | |
| Purge and Trap | TAL NC | | SW846 5030B |
| Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics) | TAL NC | SW846 8015C | |
| Soxhlet Extraction | TAL NC | | SW846 3540C |
| Organochlorine Pesticides (GC) | TAL NC | SW846 8081A | |
| TCLP Extraction | TAL NC | | SW846 1311 |
| Liquid-Liquid Extraction (Separatory Funnel) | TAL NC | | SW846 3510C |
| Polychlorinated Biphenyls (PCBs) by Gas Chromatography | TAL NC | SW846 8082A | |
| Soxhlet Extraction | TAL NC | | SW846 3540C |
| Herbicides (GC) | TAL NC | SW846 8151A | |
| TCLP Extraction | TAL NC | | SW846 1311 |
| Extraction (Herbicides) | TAL NC | | SW846 8151A |
| Metals (ICP) | TAL NC | SW846 6010B | |
| TCLP Extraction | TAL NC | | SW846 1311 |
| Preparation, Total Metals | TAL NC | | SW846 3010A |
| Metals (ICP) | TAL NC | SW846 6010C | |
| Preparation, Metals | TAL NC | | SW846 3050B |
| Mercury (CVAA) | TAL NC | SW846 7470A | |
| TCLP Extraction | TAL NC | | SW846 1311 |
| Preparation, Mercury | TAL NC | | SW846 7470A |
| Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique) | TAL NC | SW846 7471B | |
| Preparation, Mercury | TAL NC | | SW846 7471B |
| Percent Moisture | TAL NC | EPA Moisture | |
| **Matrix: Water** | | | |
| Volatile Organic Compounds (GC/MS) | TAL NC | SW846 8260B | |
| Purge and Trap | TAL NC | | SW846 5030B |

**Lab References:**

TAL NC = TestAmerica Canton

# Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

| Client Contact | | | | |
|---|---|---|---|---|
| Company Name: Tetra Tech Inc. | Client Project Manager: Tony Aparavage | Site Contact: STV Cameron | Lab Contact: Pat O'meara | COC No: |
| Address: 20251 Century Blvd. | Telephone: 301 528-3021 | Telephone: | Telephone: 330 497-9396 | 1 of 1 COCs |
| City/State/Zip: Germantown MD 20874 | Email: | | | |
| Phone: 301 528-3021 | | TAT if different from below _____ ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day | | |
| Project Name: MT Soil Sampling | Method of Shipment/Carrier: Fed Ex | | | |
| Project Number: 112IC04054-04 | Shipping/Tracking No: | | | |
| PO# | | | | |

Analyses

| Sample Identification | Sample Date | Sample Time | Matrix: Air | Aqueous | Sediment | Solid | Other: | Preservation: H2SO4 | HNO3 | HCl | NaOH | Zn Ac/ NaOH | Unpres | Other: Methanol | Filtered | MS/MSD | VOCs | SVOCs PCBs | metals | GW | VOCs | Pest Herbs | | | | Sample Specific Notes / Special Instructions: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TB-071012 | 7-10-12 | — | | X | | | | | | 2 | | | | | 2 | G | X | | | | | | | | | |
| MT-SS18-0-2 | | 0915 | | | | X | | | | | | | 4 | 3 | | | X | X | X | X | X | | | | | |
| MT-SB18-8-10 | | 0920 | | | | X | | | | | | | 4 | 3 | | | X | X | X | X | X | | | | | |
| MT-TCLP-8-10 | | 0925 | | | | X | | | | | | | 2 | | | | | X | X | | X | XX | | | | |
| ~~MT-SB17-0-2~~ MT-SS17-0-2 | | 1025 | | | | X | | | | | | | 4 | 3 | | | X | X | X | X | X | | | | | |
| ~~MT-SB17-8-10~~ MT-SS17-8-10 | | 1050 | | | | X | | | | | | | 4 | 3 | | | X | X | X | X | X | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
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AC 11-29-12

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07/30/2012

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

| Relinquished by: | Company: | Date/Time: | Received by: | Company: | Date/Time: |
|---|---|---|---|---|---|
| | Tetra Tech | 7-10-12/1200 | | | |
| Relinquished by: | Company: | Date/Time: | Received by: | Company: | Date/Time: |
| Relinquished by: | Company: | Date/Time: | Received in Laboratory by: | Company: | Date/Time: |
| | | | | TA | 7/11/12 800 |

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TAL-0018 (1008)

**TestAmerica North Canton Sample Receipt Form/Narrative** Login # : 13070

Client TETRA TECH INC. Site Name MTSoil Sampling By: Terrell Vick
Cooler Received on 7-11-12 Opened on 7-11-12 (Signature)
FedEx: 1st Grd (Exp) UPS FAS Stetson Client Drop Off TestAmerica Courier Other
TestAmerica Cooler # Foam Box (Client Cooler) Box Other
Packing material used: (Bubble Wrap) Foam (Plastic Bag) None Other
COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt
   IR GUN# 1 (CF 0°C) Observed Sample Temp. ____ °C Corrected Sample Temp. ____ °C
   IR GUN# 4G (CF –1°C) Observed Sample Temp. ____ °C Corrected Sample Temp. ____ °C ☐ Multiple on Back
   IR GUN# 5G (CF –1°C) Observed Sample Temp. 1.6 °C Corrected Sample Temp. 0.6 °C
   IR GUN# 8 (CF 0°C) Observed Sample Temp. ____ °C Corrected Sample Temp. ____ °C
2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 (Yes) No
   -Were custody seals on the outside of the cooler(s) signed & dated? (Yes) No NA
   -Were custody seals on the bottle(s)? Yes (No)
3. Shippers' packing slip attached to the cooler(s)? (Yes) No
4. Did custody papers accompany the sample(s)? (Yes) No
5. Were the custody papers relinquished & signed in the appropriate place? (Yes) No
6. Did all bottles arrive in good condition (Unbroken)? (Yes) No
7. Could all bottle labels be reconciled with the COC? (Yes) No
8. Were correct bottle(s) used for the test(s) indicated? (Yes) No
9. Sufficient quantity received to perform indicated analyses? (Yes) No
10. Were sample(s) at the correct pH upon receipt? Yes No (NA)
11. Were VOAs on the COC? Yes (No)
12. Were air bubbles >6 mm in any VOA vials? Yes No (NA)
13. Was a trip blank present in the cooler(s)? (Yes) No

Contacted PM PM Date 7/12/12 by CSL (via Verbal) Voice Mail Other
Concerning

**14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES**

Per PM/Client log dro, for tclp sample log TCLP

**15. SAMPLE CONDITION**

Sample(s) ____ were received after the recommended holding time had expired.
Sample(s) ____ were received in a broken container.
Sample(s) ____ were received with bubble >6 mm in diameter. (Notify PM)

# Login Sample Receipt Checklist

Client: Tetra Tech, Inc

Job Number: 240-13070-1

**Login Number: 13070**

**List Source: TestAmerica Canton**

**List Number: 1**

**Creator: Livengood, Chris**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the sample IDs on the containers and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

# HOLDTIME

**SDG** 240-13070-1

| SORT | UNITS | NSAMPLE | LAB_ID | QC_TYPE | SAMP_DATE | EXTR_DATE | ANAL_DATE | SMP_EXTR | EXTR_ANL | SMP_ANL |
|---|---|---|---|---|---|---|---|---|---|---|
| HG | MG/KG | MT-SB17-0-2 | 240-13070-5 | NM | 7/10/2012 | 7/12/2012 | 7/13/2012 | 2 | 1 | 3 |
| HG | MG/KG | MT-SB17-8-10 | 240-13070-6 | NM | 7/10/2012 | 7/12/2012 | 7/13/2012 | 2 | 1 | 3 |
| HG | MG/KG | MT-SS18-0-2 | 240-13070-2 | NM | 7/10/2012 | 7/12/2012 | 7/13/2012 | 2 | 1 | 3 |
| HG | MG/KG | MT-SS18-8-10 | 240-13070-3 | NM | 7/10/2012 | 7/12/2012 | 7/13/2012 | 2 | 1 | 3 |
| M | MG/KG | MT-SS18-8-10 | 240-13070-3 | NM | 7/10/2012 | 7/12/2012 | 7/16/2012 | 2 | 4 | 6 |
| M | MG/KG | MT-SB17-0-2 | 240-13070-5 | NM | 7/10/2012 | 7/12/2012 | 7/16/2012 | 2 | 4 | 6 |
| M | MG/KG | MT-SB17-8-10 | 240-13070-6 | NM | 7/10/2012 | 7/12/2012 | 7/16/2012 | 2 | 4 | 6 |
| M | MG/KG | MT-SB17-8-10 | 240-13070-6 | NM | 7/10/2012 | 7/12/2012 | 7/17/2012 | 2 | 5 | 7 |
| M | MG/KG | MT-SS18-0-2 | 240-13070-2 | NM | 7/10/2012 | 7/12/2012 | 7/16/2012 | 2 | 4 | 6 |
| M | MG/KG | MT-SS18-0-2 | 240-13070-2 | NM | 7/10/2012 | 7/12/2012 | 7/17/2012 | 2 | 5 | 7 |
| OS | UG/KG | MT-SS18-8-10 | 240-13070-3 | NM | 7/10/2012 | 7/19/2012 | 7/23/2012 | 9 | 4 | 13 |
| OS | UG/KG | MT-SS18-0-2 | 240-13070-2 | NM | 7/10/2012 | 7/19/2012 | 7/23/2012 | 9 | 4 | 13 |
| OS | UG/KG | MT-SB17-8-10 | 240-13070-6 | NM | 7/10/2012 | 7/19/2012 | 7/23/2012 | 9 | 4 | 13 |
| OS | UG/KG | MT-SB17-0-2 | 240-13070-5 | NM | 7/10/2012 | 7/19/2012 | 7/23/2012 | 9 | 4 | 13 |
| OV | UG/KG | MT-SS18-0-2 | 240-13070-2 | NM | 7/12/2012 | 7/12/2012 | 7/17/2012 | 0 | 5 | 5 |

| SORT | UNITS | NSAMPLE | LAB_ID | QC_TYPE | SAMP_DATE | EXTR_DATE | ANAL_DATE | SMP_EXTR | EXTR_ANL | SMP_ANL |
|---|---|---|---|---|---|---|---|---|---|---|
| OV | UG/KG | MT-SB17-8-10 | 240-13070-6 | NM | 7/11/2012 | 7/11/2012 | 7/16/2012 | 0 | 5 | 5 |
| OV | UG/KG | MT-SB17-0-2 | 240-13070-5 | NM | 7/11/2012 | 7/11/2012 | 7/16/2012 | 0 | 5 | 5 |
| OV | UG/KG | MT-SS18-8-10 | 240-13070-3 | NM | 7/11/2012 | 7/11/2012 | 7/17/2012 | 0 | 6 | 6 |
| OV | UG/L | TB-071012 | 240-13070-1 | NM | 7/10/2012 | 7/13/2012 | 7/13/2012 | 3 | 0 | 3 |
| PCB | UG/KG | MT-SS18-0-2 | 240-13070-2 | NM | 7/10/2012 | 7/19/2012 | 7/23/2012 | 9 | 4 | 13 |
| PCB | UG/KG | MT-SS18-8-10 | 240-13070-3 | NM | 7/10/2012 | 7/19/2012 | 7/23/2012 | 9 | 4 | 13 |
| PCB | UG/KG | MT-SB17-8-10 | 240-13070-6 | NM | 7/10/2012 | 7/19/2012 | 7/23/2012 | 9 | 4 | 13 |
| PCB | UG/KG | MT-SB17-0-2 | 240-13070-5 | NM | 7/10/2012 | 7/19/2012 | 7/23/2012 | 9 | 4 | 13 |
| DRO | MG/KG | MT-SB17-0-2 | 240-13070-5 | NM | 7/10/2012 | 7/20/2012 | 7/26/2012 | 10 | 6 | 16 |
| DRO | MG/KG | MT-SS18-8-10 | 240-13070-3 | NM | 7/10/2012 | 7/20/2012 | 7/25/2012 | 10 | 5 | 15 |
| DRO | MG/KG | MT-SS18-0-2 | 240-13070-2 | NM | 7/10/2012 | 7/20/2012 | 7/25/2012 | 10 | 5 | 15 |
| DRO | MG/KG | MT-SB17-8-10 | 240-13070-6 | NM | 7/10/2012 | 7/20/2012 | 7/26/2012 | 10 | 6 | 16 |
| GRO | UG/KG | MT-SS18-8-10 | 240-13070-3 | NM | 7/10/2012 | 7/18/2012 | 7/18/2012 | 8 | 0 | 8 |
| GRO | UG/KG | MT-SS18-0-2 | 240-13070-2 | NM | 7/10/2012 | 7/18/2012 | 7/18/2012 | 8 | 0 | 8 |
| GRO | UG/KG | MT-SB17-8-10 | 240-13070-6 | NM | 7/10/2012 | 7/18/2012 | 7/18/2012 | 8 | 0 | 8 |
| GRO | UG/KG | MT-SB17-0-2 | 240-13070-5 | NM | 7/10/2012 | 7/18/2012 | 7/18/2012 | 8 | 0 | 8 |
| TCLPH | MG/L | MT-TCLP-8-10 | 240-13070-4 | NM | 7/10/2012 | 7/13/2012 | 7/23/2012 | 3 | 10 | 13 |
| TCLPM | MG/L | MT-TCLP-8-10 | 240-13070-4 | NM | 7/10/2012 | 7/13/2012 | 7/16/2012 | 3 | 3 | 6 |

| SORT | UNITS | NSAMPLE | LAB_ID | QC_TYPE | SAMP_DATE | EXTR_DATE | ANAL_DATE | SMP_EXTR | EXTR_ANL | SMP_ANL |
|---|---|---|---|---|---|---|---|---|---|---|
| TCLPP | MG/L | MT-TCLP-8-10 | 240-13070-4 | NM | 7/10/2012 | 7/13/2012 | 7/16/2012 | 3 | 3 | 6 |
| TCLPS | MG/L | MT-TCLP-8-10 | 240-13070-4 | NM | 7/10/2012 | 7/13/2012 | 7/16/2012 | 3 | 3 | 6 |
| TCLPV | MG/L | MT-TCLP-8-10 | 240-13070-4 | NM | 7/10/2012 | 7/13/2012 | 7/13/2012 | 3 | 0 | 3 |

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab File ID: BFB1914.D BFB Injection Date: 07/13/2012

Instrument ID: A3UX12 BFB Injection Time: 14:44

Analysis Batch No.: 50783

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 50 | 15.0 - 40.0 % of mass 95 | 15.6 | |
| 75 | 30.0 - 60.0 % of mass 95 | 44.4 | |
| 95 | Base Peak, 100% relative abundance | 100.0 | |
| 96 | 5.0 - 9.0 % of mass 95 | 6.5 | |
| 173 | Less than 2.0 % of mass 174 | 0.0 | (0.0)1 |
| 174 | 50.0 - 120.00 % of mass 95 | 90.2 | |
| 175 | 5.0 - 9.0 % of mass 174 | 7.3 | (8.1)1 |
| 176 | 95.0 - 101.0 % of mass 174 | 88.2 | (97.7)1 |
| 177 | 5.0 - 9.0 % of mass 176 | 5.5 | (6.2)2 |

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | CCVIS 240-50783/2 | UX124979.D | 07/13/2012 | 15:11 |
| | LB 240-50667/1-A | UX124993.D | 07/13/2012 | 20:42 |
| | LCS 240-50783/18 | UX124994.D | 07/13/2012 | 21:06 |
| MT-TCLP-8-10 | 240-13070-4 | UX124995.D | 07/13/2012 | 21:31 |
| | 240-13101-D-3-A MS | UX125001.D | 07/13/2012 | 23:57 |
| | 240-13101-D-3-A MSD | UX125002.D | 07/14/2012 | 00:21 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCVIS 240-50783/2  Calibration Date: 07/13/2012 15:11

Instrument ID: A3UX12  Calib Start Date: 02/07/2012 20:19

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 02/07/2012 22:23

Lab File ID: UX124979.D  Conc. Units: ng/uL  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | Ave | 0.1574 | 0.2494 | | 0.0317 | 0.0200 | 58.4* | 50.0 |
| Chloromethane | Ave | 0.2632 | 0.2724 | 0.1000 | 0.0207 | 0.0200 | 3.5 | 50.0 |
| Vinyl chloride | Ave | 0.3139 | 0.3071 | | 0.0196 | 0.0200 | -2.1 | 20.0 |
| Bromomethane | Ave | 0.1774 | 0.1859 | | 0.0210 | 0.0200 | 4.8 | 50.0 |
| Chloroethane | Ave | 0.1983 | 0.1979 | | 0.0200 | 0.0200 | -0.2 | 50.0 |
| Trichlorofluoromethane | Lin1 | | 0.3215 | | 0.0231 | 0.0200 | 15.5 | 50.0 |
| Acrolein | Ave | 0.0214 | 0.0178 | | 0.167 | 0.200 | -16.7 | 50.0 |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | Ave | 0.1933 | 0.2237 | | 0.0231 | 0.0200 | 15.7 | 50.0 |
| 1,1-Dichloroethene | Ave | 0.3664 | 0.3545 | | 0.0194 | 0.0200 | -3.2 | 20.0 |
| Acetone | Lin1 | | 0.0470 | | 0.0341 | 0.0400 | -14.8 | 50.0 |
| Iodomethane | Ave | 0.3632 | 0.4070 | | 0.0224 | 0.0200 | 12.0 | 50.0 |
| Carbon disulfide | Ave | 0.7762 | 0.7953 | | 0.0205 | 0.0200 | 2.5 | 50.0 |
| Acetonitrile | Lin1 | | 0.0230 | | 0.191 | 0.200 | -4.6 | 50.0 |
| Methyl acetate | Lin1 | | 0.1259 | | 0.0358 | 0.0400 | -10.5 | 50.0 |
| Methylene Chloride | Lin1 | | 0.2849 | | 0.0191 | 0.0200 | -4.5 | 50.0 |
| 2-Methyl-2-propanol | Lin1 | | 0.0124 | | 0.316 | 0.400 | -21.0 | 50.0 |
| Acrylonitrile | Lin1 | | 0.0677 | | 0.0390 | 0.0400 | -2.5 | 50.0 |
| Methyl tert-butyl ether | Ave | 0.6154 | 0.5310 | | 0.0173 | 0.0200 | -13.7 | 50.0 |
| trans-1,2-Dichloroethene | Ave | 0.2849 | 0.2428 | | 0.0170 | 0.0200 | -14.8 | 50.0 |
| Hexane | Ave | 0.1765 | 0.1442 | | 0.0163 | 0.0200 | -18.3 | 20.0 |
| 1,1-Dichloroethane | Ave | 0.3611 | 0.3267 | 0.1000 | 0.0181 | 0.0200 | -9.5 | 50.0 |
| Vinyl acetate | Ave | 0.0312 | 0.0289 | | 0.0185 | 0.0200 | -7.3 | 50.0 |
| 2,2-Dichloropropane | Ave | 0.1653 | 0.1424 | | 0.0172 | 0.0200 | -13.9 | 50.0 |
| 2-Butanone (MEK) | Lin1 | | 0.0215 | | 0.0395 | 0.0400 | -1.3 | 50.0 |
| cis-1,2-Dichloroethene | Ave | 0.3048 | 0.2726 | | 0.0179 | 0.0200 | -10.6 | 50.0 |
| Chlorobromomethane | Ave | 0.1816 | 0.1513 | | 0.0167 | 0.0200 | -16.7 | 50.0 |
| Tetrahydrofuran | Lin1 | | 0.0461 | | 0.0181 | 0.0200 | -9.5 | 50.0 |
| Chloroform | Ave | 0.3503 | 0.3406 | | 0.0194 | 0.0200 | -2.8 | 20.0 |
| 1,1,1-Trichloroethane | Ave | 0.2285 | 0.2387 | | 0.0209 | 0.0200 | 4.5 | 50.0 |
| Cyclohexane | Ave | 0.2866 | 0.2713 | | 0.0189 | 0.0200 | -5.3 | 50.0 |
| 1,1-Dichloropropene | Ave | 0.2617 | 0.2536 | | 0.0194 | 0.0200 | -3.1 | 50.0 |
| Carbon tetrachloride | Ave | 0.1673 | 0.1939 | | 0.0232 | 0.0200 | 15.8 | 50.0 |
| 1,2-Dichloroethane | Ave | 0.2543 | 0.2352 | | 0.0185 | 0.0200 | -7.5 | 50.0 |
| Benzene | Ave | 0.8969 | 0.8152 | | 0.0182 | 0.0200 | -9.1 | 50.0 |
| Trichloroethene | Ave | 0.2154 | 0.2202 | | 0.0204 | 0.0200 | 2.2 | 50.0 |
| Methylcyclohexane | Ave | 0.1795 | 0.1508 | | 0.0168 | 0.0200 | -16.0 | 50.0 |
| 1,2-Dichloropropane | Ave | 0.2093 | 0.1843 | | 0.0176 | 0.0200 | -12.0 | 20.0 |
| 1,4-Dioxane | Ave | 0.0022 | 0.0023 | | 1.08 | 1.00 | 8.0 | 50.0 |
| Dibromomethane | Ave | 0.1269 | 0.1463 | | 0.0231 | 0.0200 | 15.3 | 50.0 |
| Dichlorobromomethane | Ave | 0.2584 | 0.2356 | | 0.0182 | 0.0200 | -8.8 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCVIS 240-50783/2  Calibration Date: 07/13/2012 15:11

Instrument ID: A3UX12  Calib Start Date: 02/07/2012 20:19

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 02/07/2012 22:23

Lab File ID: UX124979.D  Conc. Units: ng/uL  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 2-Chloroethyl vinyl ether | Ave | 0.1312 | 0.1156 | | 0.0352 | 0.0400 | -11.9 | 50.0 |
| cis-1,3-Dichloropropene | Ave | 0.3580 | 0.2874 | | 0.0161 | 0.0200 | -19.7 | 50.0 |
| 4-Methyl-2-pentanone (MIBK) | Lin1 | | 0.1362 | | 0.0351 | 0.0400 | -12.3 | 50.0 |
| Toluene | Ave | 1.223 | 1.161 | | 0.0190 | 0.0200 | -5.0 | 20.0 |
| trans-1,3-Dichloropropene | Ave | 0.4302 | 0.3061 | | 0.0142 | 0.0200 | -28.8 | 50.0 |
| Ethyl methacrylate | Ave | 0.3748 | 0.2735 | | 0.0146 | 0.0200 | -27.0 | 50.0 |
| 1,1,2-Trichloroethane | Ave | 0.2500 | 0.2341 | | 0.0187 | 0.0200 | -6.4 | 50.0 |
| Tetrachloroethene | Ave | 0.2370 | 0.2607 | | 0.0220 | 0.0200 | 10.0 | 50.0 |
| 1,3-Dichloropropane | Ave | 0.4589 | 0.4187 | | 0.0182 | 0.0200 | -8.8 | 50.0 |
| 2-Hexanone | Ave | 0.1537 | 0.1252 | | 0.0326 | 0.0400 | -18.5 | 50.0 |
| Chlorodibromomethane | Ave | 0.2354 | 0.2297 | | 0.0195 | 0.0200 | -2.4 | 50.0 |
| Ethylene Dibromide | Ave | 0.2558 | 0.2403 | | 0.0188 | 0.0200 | -6.1 | 50.0 |
| Chlorobenzene | Ave | 0.8070 | 0.7606 | 0.3000 | 0.0189 | 0.0200 | -5.7 | 50.0 |
| 1,1,1,2-Tetrachloroethane | Ave | 0.2517 | 0.2157 | | 0.0171 | 0.0200 | -14.3 | 50.0 |
| Ethylbenzene | Ave | 0.3681 | 0.3591 | | 0.0195 | 0.0200 | -2.4 | 20.0 |
| m-Xylene & p-Xylene | Ave | 0.4821 | 0.4646 | | 0.0385 | 0.0400 | -3.6 | 50.0 |
| o-Xylene | Ave | 0.4971 | 0.4449 | | 0.0179 | 0.0200 | -10.5 | 50.0 |
| Styrene | Ave | 0.9268 | 0.8478 | | 0.0183 | 0.0200 | -8.5 | 50.0 |
| Bromoform | Ave | 0.1546 | 0.1345 | 0.1000 | 0.0174 | 0.0200 | -13.0 | 50.0 |
| Isopropylbenzene | Ave | 1.093 | 0.9926 | | 0.0182 | 0.0200 | -9.2 | 50.0 |
| 1,1,2,2-Tetrachloroethane | Ave | 0.8260 | 0.6381 | 0.3000 | 0.0155 | 0.0200 | -22.7 | 50.0 |
| Bromobenzene | Ave | 0.7698 | 0.6649 | | 0.0173 | 0.0200 | -13.6 | 50.0 |
| 1,2,3-Trichloropropane | Ave | 0.2482 | 0.2210 | | 0.0178 | 0.0200 | -11.0 | 50.0 |
| trans-1,4-Dichloro-2-butene | Ave | 0.2312 | 0.0956 | | 0.00827 | 0.0200 | -58.7* | 50.0 |
| N-Propylbenzene | Ave | 0.6701 | 0.5385 | | 0.0161 | 0.0200 | -19.6 | 50.0 |
| 2-Chlorotoluene | Ave | 0.6402 | 0.5408 | | 0.0169 | 0.0200 | -15.5 | 50.0 |
| 1,3,5-Trimethylbenzene | Ave | 2.150 | 1.629 | | 0.0152 | 0.0200 | -24.2 | 50.0 |
| 4-Chlorotoluene | Ave | 0.6834 | 0.5568 | | 0.0163 | 0.0200 | -18.5 | 50.0 |
| tert-Butylbenzene | Ave | 1.770 | 1.449 | | 0.0164 | 0.0200 | -18.2 | 50.0 |
| 1,2,4-Trimethylbenzene | Ave | 2.262 | 1.721 | | 0.0152 | 0.0200 | -23.9 | 50.0 |
| sec-Butylbenzene | Ave | 2.559 | 2.011 | | 0.0157 | 0.0200 | -21.4 | 50.0 |
| 1,3-Dichlorobenzene | Ave | 1.310 | 1.161 | | 0.0177 | 0.0200 | -11.4 | 50.0 |
| 4-Isopropyltoluene | Ave | 2.137 | 1.818 | | 0.0170 | 0.0200 | -14.9 | 50.0 |
| 1,4-Dichlorobenzene | Ave | 1.385 | 1.231 | | 0.0178 | 0.0200 | -11.1 | 50.0 |
| n-Butylbenzene | Ave | 1.946 | 1.493 | | 0.0153 | 0.0200 | -23.3 | 50.0 |
| 1,2-Dichlorobenzene | Ave | 1.251 | 1.187 | | 0.0190 | 0.0200 | -5.1 | 50.0 |
| 1,2-Dibromo-3-Chloropropane | Ave | 0.1218 | 0.1049 | | 0.0172 | 0.0200 | -13.9 | 50.0 |
| 1,3,5-Trichlorobenzene | Ave | 0.8158 | 0.7603 | | 0.0186 | 0.0200 | -6.8 | 50.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.6371 | 0.6277 | | 0.0197 | 0.0200 | -1.5 | 50.0 |
| Hexachlorobutadiene | Ave | 0.3109 | 0.3226 | | 0.0208 | 0.0200 | 3.8 | 50.0 |
| Naphthalene | Ave | 1.434 | 1.282 | | 0.0179 | 0.0200 | -10.6 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCVIS 240-50783/2 Calibration Date: 07/13/2012 15:11

Instrument ID: A3UX12 Calib Start Date: 02/07/2012 20:19

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 02/07/2012 22:23

Lab File ID: UX124979.D Conc. Units: ng/uL Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 1,2,3-Trichlorobenzene | Ave | 0.4111 | 0.4079 | | 0.0198 | 0.0200 | -0.8 | 50.0 |
| Dibromofluoromethane (Surr) | Ave | 0.2001 | 0.2380 | | 0.0238 | 0.0200 | 18.9 | 50.0 |
| 1,2-Dichloroethane-d4 (Surr) | Ave | 0.2323 | 0.2564 | | 0.0221 | 0.0200 | 10.4 | 50.0 |
| Toluene-d8 (Surr) | Ave | 1.114 | 1.182 | | 0.0212 | 0.0200 | 6.1 | 50.0 |
| 4-Bromofluorobenzene (Surr) | Ave | 0.4374 | 0.4127 | | 0.0189 | 0.0200 | -5.7 | 50.0 |

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab File ID: UX124993.D Lab Sample ID: LB 240-50667/1-A

Matrix: Solid (TCLP) Heated Purge:(Y/N) N

Instrument ID: A3UX12 Date Analyzed: 07/13/2012 20:42

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| | LCS 240-50783/18 | UX124994.D | 07/13/2012 21:06 |
| MT-TCLP-8-10 | 240-13070-4 | UX124995.D | 07/13/2012 21:31 |
| | 240-13101-D-3-A MS | UX125001.D | 07/13/2012 23:57 |
| | 240-13101-D-3-A MSD | UX125002.D | 07/14/2012 00:21 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Client Sample ID:  Lab Sample ID: LB 240-50667/1-A MB

Matrix: Solid (TCLP)  Lab File ID: UX124993.D

Analysis Method: 8260B  Date Collected:

Sample wt/vol: 0.1(mL)  Date Analyzed: 07/13/2012 20:42

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624 ID: 0.18(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 50783  Units: mg/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 75-35-4 | 1,1-Dichloroethene | 0.025 | U | 0.025 | 0.0095 |
| 107-06-2 | 1,2-Dichloroethane | 0.025 | U | 0.025 | 0.011 |
| 71-43-2 | Benzene | 0.025 | U | 0.025 | 0.0065 |
| 56-23-5 | Carbon tetrachloride | 0.025 | U | 0.025 | 0.0065 |
| 108-90-7 | Chlorobenzene | 0.025 | U | 0.025 | 0.0075 |
| 67-66-3 | Chloroform | 0.025 | U | 0.025 | 0.0080 |
| 78-93-3 | 2-Butanone (MEK) | 0.25 | U | 0.25 | 0.029 |
| 127-18-4 | Tetrachloroethene | 0.025 | U | 0.025 | 0.015 |
| 79-01-6 | Trichloroethene | 0.025 | U | 0.025 | 0.0085 |
| 75-01-4 | Vinyl chloride | 0.025 | U | 0.025 | 0.011 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 106 | | 80-121 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 93 | | 70-124 |
| 2037-26-5 | Toluene-d8 (Surr) | 105 | | 90-115 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 115 | | 84-128 |

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

| Client Sample ID | Lab Sample ID | DBFM # | DCA # | TOL # | BFB # |
|---|---|---|---|---|---|
| | MB 240-51061/6 | 89 | 102 | 101 | 100 |

| | QC LIMITS |
|---|---|
| DBFM = Dibromofluoromethane (Surr) | 30-122 |
| DCA = 1,2-Dichloroethane-d4 (Surr) | 39-128 |
| TOL = Toluene-d8 (Surr) | 33-134 |
| BFB = 4-Bromofluorobenzene (Surr) | 26-141 |

# Column to be used to flag recovery values

FORM II 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

| Client Sample ID | Lab Sample ID | DBFM # | DCA # | TOL # | BFB # |
|---|---|---|---|---|---|
| MT-SS18-8-10 | 240-13070-3 | 89 | 98 | 104 | 102 |
| MT-SB17-0-2 | 240-13070-5 | 90 | 108 | 104 | 102 |
| MT-SB17-8-10 | 240-13070-6 | 91 | 108 | 101 | 100 |
| | MB 240-50900/6 | 95 | 107 | 103 | 102 |
| | LCS 240-50900/5 | 95 | 103 | 109 | 111 |
| | LCS 240-51061/5 | 91 | 98 | 103 | 107 |
| | 240-13217-A-1 MS | 95 | 104 | 112 | 123 |
| | 240-13194-A-2 MS | 93 | 99 | 110 | 114 |
| | 240-13217-A-1 MSD | 95 | 105 | 113 | 126 |
| | 240-13194-A-2 MSD | 93 | 97 | 112 | 114 |

| | QC LIMITS |
|---|---|
| DBFM = Dibromofluoromethane (Surr) | 37-132 |
| DCA = 1,2-Dichloroethane-d4 (Surr) | 58-123 |
| TOL = Toluene-d8 (Surr) | 67-125 |
| BFB = 4-Bromofluorobenzene (Surr) | 52-136 |

# Column to be used to flag recovery values

FORM II 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Solid Level: Medium

GC Column (1): DB-624 ID: 0.18 (mm)

| Client Sample ID | Lab Sample ID | DBFM # | DCA # | TOL # | BFB # |
|---|---|---|---|---|---|
| MT-SS18-0-2 | 240-13070-2 | 88 | 102 | 96 | 100 |
| | MB 240-50627/1-A | 99 | 117 | 107 | 102 |
| | LCS 240-50627/2-A | 97 | 113 | 107 | 107 |

| | QC LIMITS |
|---|---|
| DBFM = Dibromofluoromethane (Surr) | 30-122 |
| DCA = 1,2-Dichloroethane-d4 (Surr) | 39-128 |
| TOL = Toluene-d8 (Surr) | 33-134 |
| BFB = 4-Bromofluorobenzene (Surr) | 26-141 |

# Column to be used to flag recovery values

FORM II 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Solid (TCLP) Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

| Client Sample ID | Lab Sample ID | DBFM # | DCA # | TOL # | BFB # |
|---|---|---|---|---|---|
| MT-TCLP-8-10 | 240-13070-4 | 115 | 104 | 106 | 94 |
| | LB 240-50667/1-A MB | 115 | 106 | 105 | 93 |
| | LCS 240-50783/18 | 115 | 109 | 108 | 96 |
| | 240-13101-D-3-A MS | 120 | 107 | 110 | 96 |
| | 240-13101-D-3-A MSD | 120 | 108 | 109 | 97 |

| | QC LIMITS |
|---|---|
| DBFM = Dibromofluoromethane (Surr) | 84-128 |
| DCA = 1,2-Dichloroethane-d4 (Surr) | 80-121 |
| TOL = Toluene-d8 (Surr) | 90-115 |
| BFB = 4-Bromofluorobenzene (Surr) | 70-124 |

# Column to be used to flag recovery values

FORM II 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

| Client Sample ID | Lab Sample ID | DBFM # | DCA # | TOL # | BFB # |
|---|---|---|---|---|---|
| TB-071012 | 240-13070-1 | 95 | 85 | 94 | 104 |
| | MB 240-50744/5 | 97 | 85 | 97 | 108 |
| | LCS 240-50744/4 | 97 | 92 | 97 | 109 |
| | 240-13078-A-2 MS | 97 | 89 | 97 | 110 |
| | 240-13078-D-2 MSD | 94 | 85 | 94 | 108 |

| | QC LIMITS |
|---|---|
| DBFM = Dibromofluoromethane (Surr) | 75-121 |
| DCA = 1,2-Dichloroethane-d4 (Surr) | 63-129 |
| TOL = Toluene-d8 (Surr) | 74-115 |
| BFB = 4-Bromofluorobenzene (Surr) | 66-117 |

# Column to be used to flag recovery values

FORM II 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Solid Level: Medium Lab File ID: 146690.D

Lab ID: LCS 240-50627/2-A Client ID:

| COMPOUND | SPIKE ADDED (ug/Kg) | LCS CONCENTRATION (ug/Kg) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 500 | 478 | 96 | 27-121 | |
| 1,1,1-Trichloroethane | 500 | 468 | 94 | 38-122 | |
| 1,1,2,2-Tetrachloroethane | 500 | 525 | 105 | 54-121 | |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 500 | 515 | 103 | 48-151 | |
| 1,1-Dichloroethane | 500 | 515 | 103 | 63-117 | |
| 1,1-Dichloroethene | 500 | 520 | 104 | 44-143 | |
| 1,1-Dichloropropene | 500 | 515 | 103 | 60-123 | |
| 1,2,3-Trichlorobenzene | 500 | 399 | 80 | 43-129 | |
| 1,2,3-Trichloropropane | 500 | 505 | 101 | 74-124 | |
| 1,2,3-Trimethylbenzene | 500 | 505 | 101 | 70-130 | |
| 1,2,4-Trichlorobenzene | 500 | 372 | 74 | 41-135 | |
| 1,2,4-Trimethylbenzene | 500 | 510 | 102 | 62-133 | |
| 1,2-Dibromo-3-Chloropropane | 500 | 453 J | 91 | 10-129 | |
| 1,2-Dichlorobenzene | 500 | 481 | 96 | 68-118 | |
| 1,2-Dichloroethane | 500 | 610 | 122 | 68-119 | * |
| 1,2-Dichloropropane | 500 | 585 | 117 | 73-113 | * |
| 1,3-Dichlorobenzene | 500 | 491 | 98 | 66-121 | |
| 1,3-Dichloropropane | 500 | 580 | 116 | 74-119 | |
| 1,4-Dichlorobenzene | 500 | 493 | 99 | 65-119 | |
| 2,2-Dichloropropane | 500 | 383 | 77 | 25-123 | |
| 2-Chloroethyl vinyl ether | 500 | 475 J | 95 | 25-140 | |
| 2-Chlorotoluene | 500 | 530 | 106 | 68-122 | |
| 2-Hexanone | 1000 | 1110 | 111 | 43-130 | |
| 4-Chlorotoluene | 500 | 525 | 105 | 68-122 | |
| Acetone | 1000 | 915 J | 92 | 16-156 | |
| Benzene | 500 | 530 | 106 | 70-117 | |
| Bromobenzene | 500 | 505 | 101 | 72-120 | |
| Bromochloromethane | 500 | 453 | 91 | 56-128 | |
| Bromoform | 500 | 485 | 97 | 10-117 | |
| Bromomethane | 500 | 472 | 94 | 10-114 | |
| Carbon disulfide | 500 | 414 | 83 | 10-132 | |
| Carbon tetrachloride | 500 | 466 | 93 | 29-118 | |
| Chlorobenzene | 500 | 555 | 111 | 71-116 | |
| Chloroethane | 500 | 423 | 85 | 10-120 | |
| Chloroform | 500 | 515 | 103 | 63-116 | |
| Chloromethane | 500 | 391 | 78 | 25-110 | |
| cis-1,2-Dichloroethene | 500 | 460 | 92 | 60-125 | |
| Bromodichloromethane | 500 | 453 | 91 | 28-123 | |
| cis-1,3-Dichloropropene | 500 | 429 | 86 | 25-120 | |
| 1,2-Dibromoethane | 500 | 505 | 101 | 47-123 | |
| Dibromomethane | 500 | 585 | 117 | 68-118 | |

# Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Solid Level: Medium Lab File ID: 146690.D

Lab ID: LCS 240-50627/2-A Client ID:

| COMPOUND | SPIKE ADDED (ug/Kg) | LCS CONCENTRATION (ug/Kg) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 500 | 263 | 53 | 10-110 | |
| Diisopropyl ether | 500 | 457 J | 91 | 71-113 | |
| Ethylbenzene | 500 | 540 | 108 | 66-119 | |
| Hexachlorobutadiene | 500 | 480 | 96 | 34-135 | |
| Isopropylbenzene | 500 | 494 | 99 | 61-123 | |
| 2-Butanone | 1000 | 1020 | 102 | 10-199 | |
| 4-Methyl-2-pentanone | 1000 | 1050 | 105 | 49-121 | |
| m-Xylene & p-Xylene | 1000 | 1040 | 104 | 67-118 | |
| Methyl tert-butyl ether | 500 | 485 J | 97 | 34-157 | |
| Naphthalene | 500 | 341 | 68 | 37-126 | |
| n-Butylbenzene | 500 | 484 | 97 | 51-137 | |
| Methylene Chloride | 500 | 328 | 66 | 27-172 | |
| n-Propylbenzene | 500 | 565 | 113 | 64-130 | |
| o-Xylene | 500 | 493 | 99 | 68-120 | |
| p-Isopropyltoluene | 500 | 471 | 94 | 56-136 | |
| sec-Butylbenzene | 500 | 448 | 90 | 58-131 | |
| Styrene | 500 | 505 | 101 | 60-120 | |
| tert-Butylbenzene | 500 | 435 | 87 | 58-128 | |
| Tetrachloroethene | 500 | 565 | 113 | 58-131 | |
| Toluene | 500 | 515 | 103 | 66-123 | |
| trans-1,2-Dichloroethene | 500 | 470 | 94 | 58-121 | |
| trans-1,3-Dichloropropene | 500 | 493 | 99 | 22-122 | |
| Trichloroethene | 500 | 505 | 101 | 59-124 | |
| Trichlorofluoromethane | 500 | 437 | 87 | 17-145 | |
| tert-Butyl alcohol | 10000 | 10200 | 102 | 70-130 | |
| Vinyl acetate | 500 | 460 J | 92 | 60-125 | |
| Vinyl chloride | 500 | 422 | 84 | 33-110 | |
| Dibromochloromethane | 500 | 421 | 84 | 22-113 | |
| Xylenes, Total | 1500 | 1530 | 102 | 68-119 | |

# Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXJ5767.D

Lab ID: LCS 240-50744/4 Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 10.0 | 9.21 | 92 | 72-116 | |
| 1,1,1-Trichloroethane | 10.0 | 8.32 | 83 | 74-118 | |
| 1,1,2,2-Tetrachloroethane | 10.0 | 9.23 | 92 | 68-118 | |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 10.0 | 10.0 | 100 | 74-151 | |
| 1,1-Dichloroethane | 10.0 | 9.12 | 91 | 82-115 | |
| 1,1-Dichloroethene | 10.0 | 8.95 | 90 | 78-131 | |
| 1,1-Dichloropropene | 10.0 | 8.62 | 86 | 83-114 | |
| 1,2,3-Trichlorobenzene | 10.0 | 8.40 | 84 | 54-126 | |
| 1,2,3-Trichloropropane | 10.0 | 10.1 | 101 | 73-129 | |
| 1,2,3-Trimethylbenzene | 10.0 | 9.20 | 92 | 70-130 | |
| 1,2,4-Trichlorobenzene | 10.0 | 8.39 | 84 | 48-135 | |
| 1,2,4-Trimethylbenzene | 10.0 | 9.86 | 99 | 76-120 | |
| 1,2-Dibromo-3-Chloropropane | 10.0 | 8.37 | 84 | 42-136 | |
| 1,2-Dichlorobenzene | 10.0 | 8.61 | 86 | 81-110 | |
| 1,2-Dichloroethane | 10.0 | 8.71 | 87 | 71-127 | |
| 1,2-Dichloropropane | 10.0 | 9.11 | 91 | 81-115 | |
| 1,3-Dichlorobenzene | 10.0 | 9.00 | 90 | 80-110 | |
| 1,3-Dichloropropane | 10.0 | 8.95 | 90 | 79-116 | |
| 1,4-Dichlorobenzene | 10.0 | 8.82 | 88 | 82-110 | |
| 2,2-Dichloropropane | 10.0 | 8.02 | 80 | 50-129 | |
| 2-Chloroethyl vinyl ether | 10.0 | 8.68 J | 87 | 52-131 | |
| 2-Chlorotoluene | 10.0 | 9.49 | 95 | 76-116 | |
| 2-Hexanone | 20.0 | 17.6 | 88 | 55-133 | |
| 4-Chlorotoluene | 10.0 | 9.93 | 99 | 77-115 | |
| Acetone | 20.0 | 20.1 | 101 | 43-136 | |
| Benzene | 10.0 | 9.14 | 91 | 83-112 | |
| Bromobenzene | 10.0 | 9.78 | 98 | 76-115 | |
| Bromochloromethane | 10.0 | 9.42 | 94 | 77-120 | |
| Bromoform | 10.0 | 10.6 | 106 | 40-131 | |
| Bromomethane | 10.0 | 10.4 | 104 | 11-185 | |
| Carbon disulfide | 10.0 | 8.40 | 84 | 62-142 | |
| Carbon tetrachloride | 10.0 | 8.88 | 89 | 66-128 | |
| Chlorobenzene | 10.0 | 9.01 | 90 | 85-110 | |
| Chloroethane | 10.0 | 8.05 | 81 | 25-153 | |
| Chloroform | 10.0 | 8.85 | 89 | 79-117 | |
| Chloromethane | 10.0 | 7.72 | 77 | 44-126 | |
| cis-1,2-Dichloroethene | 10.0 | 9.33 | 93 | 80-113 | |
| Bromodichloromethane | 10.0 | 9.11 | 91 | 72-121 | |
| cis-1,3-Dichloropropene | 10.0 | 8.74 | 87 | 61-115 | |
| 1,2-Dibromoethane | 10.0 | 8.98 | 90 | 79-113 | |
| Dibromomethane | 10.0 | 9.57 | 96 | 81-120 | |

# Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXJ5767.D

Lab ID: LCS 240-50744/4 Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 10.0 | 6.45 | 65 | 19-129 | |
| Diisopropyl ether | 10.0 | 8.84 J | 88 | 77-118 | |
| Ethylbenzene | 10.0 | 8.98 | 90 | 83-112 | |
| Hexachlorobutadiene | 10.0 | 7.95 | 80 | 36-134 | |
| Isopropylbenzene | 10.0 | 9.18 | 92 | 75-114 | |
| 2-Butanone | 20.0 | 18.2 | 91 | 60-126 | |
| 4-Methyl-2-pentanone | 20.0 | 17.8 | 89 | 63-128 | |
| m-Xylene & p-Xylene | 20.0 | 17.9 | 90 | 83-113 | |
| Methyl tert-butyl ether | 10.0 | 8.92 | 89 | 52-144 | |
| Naphthalene | 10.0 | 7.42 | 74 | 32-141 | |
| n-Butylbenzene | 10.0 | 8.31 | 83 | 66-125 | |
| Methylene Chloride | 10.0 | 8.49 | 85 | 66-131 | |
| n-Propylbenzene | 10.0 | 9.43 | 94 | 74-121 | |
| o-Xylene | 10.0 | 9.21 | 92 | 83-113 | |
| p-Isopropyltoluene | 10.0 | 9.82 | 98 | 74-120 | |
| sec-Butylbenzene | 10.0 | 9.57 | 96 | 70-117 | |
| Styrene | 10.0 | 9.52 | 95 | 79-114 | |
| tert-Butylbenzene | 10.0 | 9.72 | 97 | 71-115 | |
| Tetrachloroethene | 10.0 | 8.86 | 89 | 79-114 | |
| Toluene | 10.0 | 8.69 | 87 | 84-111 | |
| trans-1,2-Dichloroethene | 10.0 | 9.29 | 93 | 83-117 | |
| trans-1,3-Dichloropropene | 10.0 | 8.62 | 86 | 58-117 | |
| Trichloroethene | 10.0 | 9.34 | 93 | 76-117 | |
| Trichlorofluoromethane | 10.0 | 8.68 | 87 | 49-157 | |
| tert-Butyl alcohol | 200 | 184 | 92 | 70-130 | |
| Vinyl acetate | 10.0 | 8.80 | 88 | 46-161 | |
| Vinyl chloride | 10.0 | 8.17 | 82 | 53-127 | |
| Dibromochloromethane | 10.0 | 8.98 | 90 | 64-119 | |
| Xylenes, Total | 30.0 | 27.1 | 90 | 83-112 | |

# Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UX124994.D

Lab ID: LCS 240-50783/18 Client ID:

| COMPOUND | SPIKE ADDED (mg/L) | LCS CONCENTRATION (mg/L) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| 1,1-Dichloroethene | 1.00 | 0.905 | 91 | 71-133 | |
| 1,2-Dichloroethane | 1.00 | 0.925 | 93 | 81-114 | |
| Benzene | 1.00 | 0.905 | 91 | 84-120 | |
| Carbon tetrachloride | 1.00 | 0.960 | 96 | 54-122 | |
| Chlorobenzene | 1.00 | 0.965 | 97 | 86-111 | |
| Chloroform | 1.00 | 0.945 | 95 | 87-123 | |
| 2-Butanone (MEK) | 2.00 | 1.85 | 92 | 49-120 | |
| Tetrachloroethene | 1.00 | 1.01 | 101 | 79-134 | |
| Trichloroethene | 1.00 | 1.04 | 104 | 78-130 | |
| Vinyl chloride | 1.00 | 0.800 | 80 | 56-111 | |

# Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 146721.D

Lab ID: LCS 240-50900/5 Client ID:

| COMPOUND | SPIKE ADDED (ug/Kg) | LCS CONCENTRATION (ug/Kg) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 50.0 | 51.9 | 104 | 81-119 | |
| 1,1,1-Trichloroethane | 50.0 | 46.4 | 93 | 77-126 | |
| 1,1,2,2-Tetrachloroethane | 50.0 | 56.2 | 112 | 77-123 | |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 50.0 | 51.8 | 104 | 82-138 | |
| 1,1-Dichloroethane | 50.0 | 53.5 | 107 | 76-115 | |
| 1,1-Dichloroethene | 50.0 | 54.3 | 109 | 75-135 | |
| 1,1-Dichloropropene | 50.0 | 54.0 | 108 | 80-120 | |
| 1,2,3-Trichlorobenzene | 50.0 | 31.9 | 64 | 61-121 | |
| 1,2,3-Trichloropropane | 50.0 | 51.6 | 103 | 84-126 | |
| 1,2,3-Trimethylbenzene | 50.0 | 53.3 | 107 | 70-130 | |
| 1,2,4-Trichlorobenzene | 50.0 | 35.3 | 71 | 64-124 | |
| 1,2,4-Trimethylbenzene | 50.0 | 55.8 | 112 | 80-129 | |
| 1,2-Dibromo-3-Chloropropane | 50.0 | 44.5 | 89 | 61-132 | |
| 1,2-Dichlorobenzene | 50.0 | 47.4 | 95 | 76-110 | |
| 1,2-Dichloroethane | 50.0 | 56.6 | 113 | 72-120 | |
| 1,2-Dichloropropane | 50.0 | 57.4 | 115 | 87-113 | * |
| 1,3-Dichlorobenzene | 50.0 | 49.0 | 98 | 78-111 | |
| 1,3-Dichloropropane | 50.0 | 60.4 | 121 | 82-118 | * |
| 1,4-Dichlorobenzene | 50.0 | 48.3 | 97 | 75-110 | |
| 2,2-Dichloropropane | 50.0 | 40.7 | 81 | 69-135 | |
| 2-Chloroethyl vinyl ether | 50.0 | 45.0 J | 90 | 28-173 | |
| 2-Chlorotoluene | 50.0 | 55.6 | 111 | 78-119 | |
| 2-Hexanone | 100 | 121 | 121 | 64-136 | |
| 4-Chlorotoluene | 50.0 | 54.5 | 109 | 79-118 | |
| Acetone | 100 | 99.4 | 99 | 41-137 | |
| Benzene | 50.0 | 52.8 | 106 | 79-112 | |
| Bromobenzene | 50.0 | 56.8 | 114 | 81-115 | |
| Bromochloromethane | 50.0 | 46.5 | 93 | 79-111 | |
| Bromoform | 50.0 | 49.7 | 99 | 62-133 | |
| Bromomethane | 50.0 | 46.9 | 94 | 42-136 | |
| Carbon disulfide | 50.0 | 40.0 | 80 | 62-146 | |
| Carbon tetrachloride | 50.0 | 48.5 | 97 | 71-129 | |
| Chlorobenzene | 50.0 | 55.3 | 111 | 78-110 | * |
| Chloroethane | 50.0 | 45.6 | 91 | 58-117 | |
| Chloroform | 50.0 | 51.6 | 103 | 77-114 | |
| Chloromethane | 50.0 | 47.4 | 95 | 50-110 | |
| cis-1,2-Dichloroethene | 50.0 | 49.4 | 99 | 76-113 | |
| Bromodichloromethane | 50.0 | 50.3 | 101 | 84-122 | |
| cis-1,3-Dichloropropene | 50.0 | 49.7 | 99 | 74-128 | |
| 1,2-Dibromoethane | 50.0 | 53.5 | 107 | 83-117 | |
| Dibromomethane | 50.0 | 56.4 | 113 | 85-120 | |

# Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 146721.D

Lab ID: LCS 240-50900/5 Client ID:

| COMPOUND | SPIKE ADDED (ug/Kg) | LCS CONCENTRATION (ug/Kg) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 50.0 | 40.8 | 82 | 26-113 | |
| Diisopropyl ether | 50.0 | 49.2 | 98 | 82-119 | |
| Ethylbenzene | 50.0 | 53.6 | 107 | 79-117 | |
| Hexachlorobutadiene | 50.0 | 38.0 | 76 | 54-131 | |
| Isopropylbenzene | 50.0 | 53.2 | 106 | 76-122 | |
| 2-Butanone | 100 | 101 | 101 | 52-131 | |
| 4-Methyl-2-pentanone | 100 | 118 | 118 | 67-135 | |
| m-Xylene & p-Xylene | 100 | 106 | 106 | 80-117 | |
| Methyl tert-butyl ether | 50.0 | 51.9 | 104 | 49-165 | |
| Naphthalene | 50.0 | 36.3 | 73 | 65-123 | |
| n-Butylbenzene | 50.0 | 50.2 | 100 | 68-135 | |
| Methylene Chloride | 50.0 | 43.3 | 87 | 75-118 | |
| n-Propylbenzene | 50.0 | 61.8 | 124 | 81-129 | |
| o-Xylene | 50.0 | 50.8 | 102 | 80-120 | |
| p-Isopropyltoluene | 50.0 | 49.3 | 99 | 77-131 | |
| sec-Butylbenzene | 50.0 | 47.4 | 95 | 74-129 | |
| Styrene | 50.0 | 53.3 | 107 | 87-117 | |
| tert-Butylbenzene | 50.0 | 47.3 | 95 | 76-126 | |
| Tetrachloroethene | 50.0 | 57.0 | 114 | 79-114 | |
| Toluene | 50.0 | 53.2 | 106 | 75-111 | |
| trans-1,2-Dichloroethene | 50.0 | 50.7 | 101 | 78-117 | |
| trans-1,3-Dichloropropene | 50.0 | 57.4 | 115 | 73-131 | |
| Trichloroethene | 50.0 | 50.1 | 100 | 79-113 | |
| Trichlorofluoromethane | 50.0 | 47.6 | 95 | 57-146 | |
| tert-Butyl alcohol | 1000 | 852 | 85 | 60-125 | |
| Vinyl acetate | 50.0 | 49.8 | 100 | 70-130 | |
| Vinyl chloride | 50.0 | 47.8 | 96 | 57-114 | |
| Dibromochloromethane | 50.0 | 50.0 | 100 | 72-127 | |
| Xylenes, Total | 150 | 157 | 105 | 80-118 | |

# Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 146754.D

Lab ID: LCS 240-51061/5 Client ID:

| COMPOUND | SPIKE ADDED (ug/Kg) | LCS CONCENTRATION (ug/Kg) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 50.0 | 49.0 | 98 | 81-119 | |
| 1,1,1-Trichloroethane | 50.0 | 44.1 | 88 | 77-126 | |
| 1,1,2,2-Tetrachloroethane | 50.0 | 57.7 | 115 | 77-123 | |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 50.0 | 50.2 | 100 | 82-138 | |
| 1,1-Dichloroethane | 50.0 | 52.8 | 106 | 76-115 | |
| 1,1-Dichloroethene | 50.0 | 52.2 | 104 | 75-135 | |
| 1,1-Dichloropropene | 50.0 | 51.7 | 103 | 80-120 | |
| 1,2,3-Trichlorobenzene | 50.0 | 32.3 | 65 | 61-121 | |
| 1,2,3-Trichloropropane | 50.0 | 53.2 | 106 | 84-126 | |
| 1,2,3-Trimethylbenzene | 50.0 | 49.4 | 99 | 70-130 | |
| 1,2,4-Trichlorobenzene | 50.0 | 34.4 | 69 | 64-124 | |
| 1,2,4-Trimethylbenzene | 50.0 | 51.1 | 102 | 80-129 | |
| 1,2-Dibromo-3-Chloropropane | 50.0 | 49.8 | 100 | 61-132 | |
| 1,2-Dichlorobenzene | 50.0 | 44.7 | 89 | 76-110 | |
| 1,2-Dichloroethane | 50.0 | 55.8 | 112 | 72-120 | |
| 1,2-Dichloropropane | 50.0 | 56.8 | 114 | 87-113 | * |
| 1,3-Dichlorobenzene | 50.0 | 46.4 | 93 | 78-111 | |
| 1,3-Dichloropropane | 50.0 | 59.3 | 119 | 82-118 | * |
| 1,4-Dichlorobenzene | 50.0 | 45.1 | 90 | 75-110 | |
| 2,2-Dichloropropane | 50.0 | 38.1 | 76 | 69-135 | |
| 2-Chloroethyl vinyl ether | 50.0 | 54.7 | 109 | 28-173 | |
| 2-Chlorotoluene | 50.0 | 50.7 | 101 | 78-119 | |
| 2-Hexanone | 100 | 134 | 134 | 64-136 | |
| 4-Chlorotoluene | 50.0 | 50.5 | 101 | 79-118 | |
| Acetone | 100 | 104 | 104 | 41-137 | |
| Benzene | 50.0 | 51.5 | 103 | 79-112 | |
| Bromobenzene | 50.0 | 53.4 | 107 | 81-115 | |
| Bromochloromethane | 50.0 | 46.9 | 94 | 79-111 | |
| Bromoform | 50.0 | 50.4 | 101 | 62-133 | |
| Bromomethane | 50.0 | 44.5 | 89 | 42-136 | |
| Carbon disulfide | 50.0 | 37.6 | 75 | 62-146 | |
| Carbon tetrachloride | 50.0 | 46.4 | 93 | 71-129 | |
| Chlorobenzene | 50.0 | 52.1 | 104 | 78-110 | |
| Chloroethane | 50.0 | 44.5 | 89 | 58-117 | |
| Chloroform | 50.0 | 50.3 | 101 | 77-114 | |
| Chloromethane | 50.0 | 46.3 | 93 | 50-110 | |
| cis-1,2-Dichloroethene | 50.0 | 49.3 | 99 | 76-113 | |
| Bromodichloromethane | 50.0 | 49.3 | 99 | 84-122 | |
| cis-1,3-Dichloropropene | 50.0 | 49.2 | 98 | 74-128 | |
| 1,2-Dibromoethane | 50.0 | 52.6 | 105 | 83-117 | |
| Dibromomethane | 50.0 | 56.9 | 114 | 85-120 | |

# Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 146754.D

Lab ID: LCS 240-51061/5 Client ID:

| COMPOUND | SPIKE ADDED (ug/Kg) | LCS CONCENTRATION (ug/Kg) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 50.0 | 38.1 | 76 | 26-113 | |
| Diisopropyl ether | 50.0 | 49.2 | 98 | 82-119 | |
| Ethylbenzene | 50.0 | 50.2 | 100 | 79-117 | |
| Hexachlorobutadiene | 50.0 | 33.7 | 67 | 54-131 | |
| Isopropylbenzene | 50.0 | 49.1 | 98 | 76-122 | |
| 2-Butanone | 100 | 111 | 111 | 52-131 | |
| 4-Methyl-2-pentanone | 100 | 126 | 126 | 67-135 | |
| m-Xylene & p-Xylene | 100 | 98.5 | 99 | 80-117 | |
| Methyl tert-butyl ether | 50.0 | 53.4 | 107 | 49-165 | |
| Naphthalene | 50.0 | 38.5 | 77 | 65-123 | |
| n-Butylbenzene | 50.0 | 44.3 | 89 | 68-135 | |
| Methylene Chloride | 50.0 | 42.8 | 86 | 75-118 | |
| n-Propylbenzene | 50.0 | 55.8 | 112 | 81-129 | |
| o-Xylene | 50.0 | 47.8 | 96 | 80-120 | |
| p-Isopropyltoluene | 50.0 | 44.2 | 88 | 77-131 | |
| sec-Butylbenzene | 50.0 | 43.2 | 86 | 74-129 | |
| Styrene | 50.0 | 50.4 | 101 | 87-117 | |
| tert-Butylbenzene | 50.0 | 43.2 | 86 | 76-126 | |
| Tetrachloroethene | 50.0 | 52.7 | 105 | 79-114 | |
| Toluene | 50.0 | 49.6 | 99 | 75-111 | |
| trans-1,2-Dichloroethene | 50.0 | 48.8 | 98 | 78-117 | |
| trans-1,3-Dichloropropene | 50.0 | 56.5 | 113 | 73-131 | |
| Trichloroethene | 50.0 | 48.9 | 98 | 79-113 | |
| Trichlorofluoromethane | 50.0 | 43.9 | 88 | 57-146 | |
| tert-Butyl alcohol | 1000 | 935 | 94 | 60-125 | |
| Vinyl acetate | 50.0 | 56.1 | 112 | 70-130 | |
| Vinyl chloride | 50.0 | 46.8 | 94 | 57-114 | |
| Dibromochloromethane | 50.0 | 49.0 | 98 | 72-127 | |
| Xylenes, Total | 150 | 146 | 98 | 80-118 | |

# Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXJ5771.D

Lab ID: 240-13078-A-2 MS Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 10.0 | 1.0 U | 8.89 | 89 | 64-118 | |
| 1,1,1-Trichloroethane | 10.0 | 1.0 U | 8.44 | 84 | 68-121 | |
| 1,1,2,2-Tetrachloroethane | 10.0 | 1.0 U | 8.42 | 84 | 63-122 | |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 10.0 | 1.0 U | 11.3 | 113 | 70-152 | |
| 1,1-Dichloroethane | 10.0 | 1.0 U | 9.06 | 91 | 79-116 | |
| 1,1-Dichloroethene | 10.0 | 28 | 40.3 | 120 | 74-135 | E |
| 1,1-Dichloropropene | 10.0 | 1.0 U | 8.76 | 88 | 80-114 | |
| 1,2,3-Trichlorobenzene | 10.0 | 1.0 U | 7.44 | 74 | 45-129 | |
| 1,2,3-Trichloropropane | 10.0 | 1.0 U | 8.98 | 90 | 67-132 | |
| 1,2,3-Trimethylbenzene | 10.0 | 5.0 U | 8.70 | 87 | 70-130 | |
| 1,2,4-Trichlorobenzene | 10.0 | 1.0 U | 7.84 | 78 | 38-138 | |
| 1,2,4-Trimethylbenzene | 10.0 | 1.0 U | 9.55 | 96 | 67-124 | |
| 1,2-Dibromo-3-Chloropropane | 10.0 | 2.0 U | 7.20 | 72 | 32-139 | |
| 1,2-Dichlorobenzene | 10.0 | 1.0 U | 8.28 | 83 | 75-111 | |
| 1,2-Dichloroethane | 10.0 | 1.0 U | 8.35 | 84 | 68-129 | |
| 1,2-Dichloropropane | 10.0 | 1.0 U | 8.60 | 86 | 78-115 | |
| 1,3-Dichlorobenzene | 10.0 | 1.0 U | 8.60 | 86 | 73-110 | |
| 1,3-Dichloropropane | 10.0 | 1.0 U | 8.55 | 86 | 74-118 | |
| 1,4-Dichlorobenzene | 10.0 | 1.0 U | 8.40 | 84 | 75-110 | |
| 2,2-Dichloropropane | 10.0 | 1.0 U | 8.05 | 81 | 38-127 | |
| 2-Chloroethyl vinyl ether | 10.0 | 10 U | 10 U | 0 | 10-150 | F |
| 2-Chlorotoluene | 10.0 | 1.0 U | 8.93 | 89 | 69-117 | |
| 2-Hexanone | 20.0 | 10 U | 15.7 | 79 | 47-139 | |
| 4-Chlorotoluene | 10.0 | 1.0 U | 9.54 | 95 | 71-116 | |
| Acetone | 20.0 | 10 U | 14.8 | 74 | 33-145 | |
| Benzene | 10.0 | 1.0 U | 8.81 | 88 | 72-121 | |
| Bromobenzene | 10.0 | 1.0 U | 9.31 | 93 | 71-116 | |
| Bromochloromethane | 10.0 | 1.0 U | 8.73 | 87 | 73-121 | |
| Bromoform | 10.0 | 1.0 U | 9.51 | 95 | 32-128 | |
| Bromomethane | 10.0 | 1.0 U | 10.5 | 105 | 10-186 | |
| Carbon disulfide | 10.0 | 1.0 U | 8.46 | 85 | 57-147 | |
| Carbon tetrachloride | 10.0 | 1.0 U | 8.76 | 88 | 59-129 | |
| Chlorobenzene | 10.0 | 1.0 U | 8.68 | 87 | 80-110 | |
| Chloroethane | 10.0 | 1.0 U | 8.99 | 90 | 21-165 | |
| Chloroform | 10.0 | 1.0 U | 8.38 | 84 | 76-118 | |
| Chloromethane | 10.0 | 1.0 U | 7.51 | 75 | 33-132 | |
| cis-1,2-Dichloroethene | 10.0 | 1.0 U | 8.93 | 89 | 70-120 | |
| Bromodichloromethane | 10.0 | 1.0 U | 8.48 | 85 | 67-120 | |
| cis-1,3-Dichloropropene | 10.0 | 1.0 U | 8.21 | 82 | 51-110 | |
| 1,2-Dibromoethane | 10.0 | 1.0 U | 8.48 | 85 | 74-113 | |
| Dibromomethane | 10.0 | 1.0 U | 8.81 | 88 | 77-121 | |

# Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXJ5771.D

Lab ID: 240-13078-A-2 MS Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 10.0 | 1.0 U | 7.15 | 72 | 17-128 | |
| Diisopropyl ether | 10.0 | 10 U | 8.51 J | 85 | 73-118 | |
| Ethylbenzene | 10.0 | 1.0 U | 8.56 | 86 | 75-116 | |
| Hexachlorobutadiene | 10.0 | 1.0 U | 8.15 | 82 | 27-132 | |
| Isopropylbenzene | 10.0 | 1.0 U | 9.11 | 91 | 68-116 | |
| 2-Butanone | 20.0 | 10 U | 15.3 | 77 | 54-129 | |
| 4-Methyl-2-pentanone | 20.0 | 10 U | 16.0 | 80 | 56-131 | |
| m-Xylene & p-Xylene | 20.0 | 2.0 U | 17.4 | 87 | 75-117 | |
| Methyl tert-butyl ether | 10.0 | 5.0 U | 8.19 | 82 | 46-144 | |
| Naphthalene | 10.0 | 1.0 U | 6.65 | 67 | 15-158 | |
| n-Butylbenzene | 10.0 | 1.0 U | 8.41 | 84 | 56-127 | |
| Methylene Chloride | 10.0 | 1.0 U | 8.00 | 80 | 63-128 | |
| n-Propylbenzene | 10.0 | 1.0 U | 9.32 | 93 | 64-124 | |
| o-Xylene | 10.0 | 1.0 U | 8.82 | 88 | 76-116 | |
| p-Isopropyltoluene | 10.0 | 1.0 U | 9.60 | 96 | 64-122 | |
| sec-Butylbenzene | 10.0 | 1.0 U | 9.33 | 93 | 60-119 | |
| Styrene | 10.0 | 1.0 U | 9.05 | 91 | 71-117 | |
| tert-Butylbenzene | 10.0 | 1.0 U | 9.27 | 93 | 61-119 | |
| Tetrachloroethene | 10.0 | 1.0 U | 9.25 | 93 | 70-117 | |
| Toluene | 10.0 | 1.0 U | 8.65 | 87 | 78-114 | |
| trans-1,2-Dichloroethene | 10.0 | 1.0 U | 8.93 | 89 | 80-119 | |
| trans-1,3-Dichloropropene | 10.0 | 1.0 U | 8.18 | 82 | 46-116 | |
| Trichloroethene | 10.0 | 1.0 U | 9.30 | 93 | 66-120 | |
| Trichlorofluoromethane | 10.0 | 4.0 | 13.7 | 97 | 46-157 | |
| tert-Butyl alcohol | 200 | 50 U | 158 | 79 | 70-130 | |
| Vinyl acetate | 10.0 | 2.0 U | 8.66 | 87 | 43-157 | |
| Vinyl chloride | 10.0 | 1.0 U | 8.47 | 85 | 49-130 | |
| Dibromochloromethane | 10.0 | 1.0 U | 8.49 | 85 | 56-118 | |
| Xylenes, Total | 30.0 | 2.0 U | 26.2 | 87 | 76-116 | |

# Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXJ5772.D

Lab ID: 240-13078-D-2 MSD Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD % REC | % RPD | QC LIMITS RPD | QC LIMITS REC | # |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 10.0 | 7.33 | 73 | 19 | 30 | 64-118 | |
| 1,1,1-Trichloroethane | 10.0 | 7.13 | 71 | 17 | 30 | 68-121 | |
| 1,1,2,2-Tetrachloroethane | 10.0 | 7.07 | 71 | 17 | 30 | 63-122 | |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 10.0 | 8.04 | 80 | 34 | 30 | 70-152 | F |
| 1,1-Dichloroethane | 10.0 | 7.67 | 77 | 17 | 30 | 79-116 | F |
| 1,1-Dichloroethene | 10.0 | 36.7 | 84 | 9 | 30 | 74-135 | |
| 1,1-Dichloropropene | 10.0 | 7.26 | 73 | 19 | 30 | 80-114 | F |
| 1,2,3-Trichlorobenzene | 10.0 | 7.02 | 70 | 6 | 30 | 45-129 | |
| 1,2,3-Trichloropropane | 10.0 | 7.56 | 76 | 17 | 30 | 67-132 | |
| 1,2,3-Trimethylbenzene | 10.0 | 7.62 | 76 | 13 | 30 | 70-130 | |
| 1,2,4-Trichlorobenzene | 10.0 | 7.20 | 72 | 9 | 30 | 38-138 | |
| 1,2,4-Trimethylbenzene | 10.0 | 8.26 | 83 | 14 | 30 | 67-124 | |
| 1,2-Dibromo-3-Chloropropane | 10.0 | 6.65 | 67 | 8 | 30 | 32-139 | |
| 1,2-Dichlorobenzene | 10.0 | 7.16 | 72 | 15 | 30 | 75-111 | F |
| 1,2-Dichloroethane | 10.0 | 7.12 | 71 | 16 | 30 | 68-129 | |
| 1,2-Dichloropropane | 10.0 | 7.42 | 74 | 15 | 30 | 78-115 | F |
| 1,3-Dichlorobenzene | 10.0 | 7.46 | 75 | 14 | 30 | 73-110 | |
| 1,3-Dichloropropane | 10.0 | 7.27 | 73 | 16 | 30 | 74-118 | F |
| 1,4-Dichlorobenzene | 10.0 | 7.28 | 73 | 14 | 30 | 75-110 | F |
| 2,2-Dichloropropane | 10.0 | 6.73 | 67 | 18 | 30 | 38-127 | |
| 2-Chloroethyl vinyl ether | 10.0 | 10 U | 0 | NC | 30 | 10-150 | F |
| 2-Chlorotoluene | 10.0 | 7.97 | 80 | 11 | 30 | 69-117 | |
| 2-Hexanone | 20.0 | 13.7 | 69 | 14 | 30 | 47-139 | |
| 4-Chlorotoluene | 10.0 | 8.27 | 83 | 14 | 30 | 71-116 | |
| Acetone | 20.0 | 13.5 | 68 | 9 | 30 | 33-145 | |
| Benzene | 10.0 | 7.49 | 75 | 16 | 30 | 72-121 | |
| Bromobenzene | 10.0 | 8.06 | 81 | 14 | 30 | 71-116 | |
| Bromochloromethane | 10.0 | 7.38 | 74 | 17 | 30 | 73-121 | |
| Bromoform | 10.0 | 8.02 | 80 | 17 | 30 | 32-128 | |
| Bromomethane | 10.0 | 9.16 | 92 | 14 | 30 | 10-186 | |
| Carbon disulfide | 10.0 | 7.01 | 70 | 19 | 30 | 57-147 | |
| Carbon tetrachloride | 10.0 | 7.32 | 73 | 18 | 30 | 59-129 | |
| Chlorobenzene | 10.0 | 7.46 | 75 | 15 | 30 | 80-110 | F |
| Chloroethane | 10.0 | 7.26 | 73 | 21 | 30 | 21-165 | |
| Chloroform | 10.0 | 7.14 | 71 | 16 | 30 | 76-118 | F |
| Chloromethane | 10.0 | 6.20 | 62 | 19 | 30 | 33-132 | |
| cis-1,2-Dichloroethene | 10.0 | 7.41 | 74 | 19 | 30 | 70-120 | |
| Bromodichloromethane | 10.0 | 7.32 | 73 | 15 | 30 | 67-120 | |
| cis-1,3-Dichloropropene | 10.0 | 6.93 | 69 | 17 | 30 | 51-110 | |
| 1,2-Dibromoethane | 10.0 | 7.25 | 73 | 16 | 30 | 74-113 | F |
| Dibromomethane | 10.0 | 7.54 | 75 | 16 | 30 | 77-121 | F |

# Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXJ5772.D

Lab ID: 240-13078-D-2 MSD Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD % REC | % RPD | QC LIMITS RPD | QC LIMITS REC | # |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 10.0 | 4.98 | 50 | 36 | 30 | 17-128 | F |
| Diisopropyl ether | 10.0 | 7.21 J | 72 | 17 | 30 | 73-118 | F |
| Ethylbenzene | 10.0 | 7.35 | 74 | 15 | 30 | 75-116 | F |
| Hexachlorobutadiene | 10.0 | 7.51 | 75 | 8 | 30 | 27-132 | |
| Isopropylbenzene | 10.0 | 7.57 | 76 | 18 | 30 | 68-116 | |
| 2-Butanone | 20.0 | 13.3 | 67 | 14 | 30 | 54-129 | |
| 4-Methyl-2-pentanone | 20.0 | 14.0 | 70 | 13 | 30 | 56-131 | |
| m-Xylene & p-Xylene | 20.0 | 14.9 | 75 | 15 | 30 | 75-117 | |
| Methyl tert-butyl ether | 10.0 | 7.11 | 71 | 14 | 30 | 46-144 | |
| Naphthalene | 10.0 | 6.07 | 61 | 9 | 30 | 15-158 | |
| n-Butylbenzene | 10.0 | 7.13 | 71 | 16 | 30 | 56-127 | |
| Methylene Chloride | 10.0 | 6.52 | 65 | 20 | 30 | 63-128 | |
| n-Propylbenzene | 10.0 | 7.80 | 78 | 18 | 30 | 64-124 | |
| o-Xylene | 10.0 | 7.63 | 76 | 14 | 30 | 76-116 | |
| p-Isopropyltoluene | 10.0 | 8.27 | 83 | 15 | 30 | 64-122 | |
| sec-Butylbenzene | 10.0 | 8.07 | 81 | 14 | 30 | 60-119 | |
| Styrene | 10.0 | 7.63 | 76 | 17 | 30 | 71-117 | |
| tert-Butylbenzene | 10.0 | 7.96 | 80 | 15 | 30 | 61-119 | |
| Tetrachloroethene | 10.0 | 7.45 | 75 | 22 | 30 | 70-117 | |
| Toluene | 10.0 | 7.23 | 72 | 18 | 30 | 78-114 | F |
| trans-1,2-Dichloroethene | 10.0 | 7.54 | 75 | 17 | 30 | 80-119 | F |
| trans-1,3-Dichloropropene | 10.0 | 6.88 | 69 | 17 | 30 | 46-116 | |
| Trichloroethene | 10.0 | 7.70 | 77 | 19 | 30 | 66-120 | |
| Trichlorofluoromethane | 10.0 | 11.3 | 73 | 19 | 30 | 46-157 | |
| tert-Butyl alcohol | 200 | 146 | 73 | 8 | 30 | 70-130 | |
| Vinyl acetate | 10.0 | 7.43 | 74 | 15 | 30 | 43-157 | |
| Vinyl chloride | 10.0 | 6.79 | 68 | 22 | 30 | 49-130 | |
| Dibromochloromethane | 10.0 | 7.20 | 72 | 16 | 30 | 56-118 | |
| Xylenes, Total | 30.0 | 22.5 | 75 | 15 | 30 | 76-116 | F |

# Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Solid (TCLP) Level: Low Lab File ID: UX125001.D

Lab ID: 240-13101-D-3-A MS Client ID:

| COMPOUND | SPIKE ADDED (mg/L) | SAMPLE CONCENTRATION (mg/L) | MS CONCENTRATION (mg/L) | MS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 1.00 | 0.025 U | 0.870 | 87 | 67-139 | |
| 1,2-Dichloroethane | 1.00 | 0.025 U | 0.880 | 88 | 80-115 | |
| Benzene | 1.00 | 0.025 U | 0.880 | 88 | 85-119 | |
| Carbon tetrachloride | 1.00 | 0.025 U | 0.910 | 91 | 60-110 | |
| Chlorobenzene | 1.00 | 0.025 U | 0.900 | 90 | 85-113 | |
| Chloroform | 1.00 | 0.025 U | 0.885 | 89 | 86-124 | |
| 2-Butanone (MEK) | 2.00 | 0.25 U | 1.82 | 91 | 49-117 | |
| Tetrachloroethene | 1.00 | 0.025 U | 0.975 | 98 | 74-138 | |
| Trichloroethene | 1.00 | 0.025 U | 0.980 | 98 | 75-134 | |
| Vinyl chloride | 1.00 | 0.025 U | 0.765 | 77 | 51-118 | |

# Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Solid (TCLP) Level: Low Lab File ID: UX125002.D

Lab ID: 240-13101-D-3-A MSD Client ID:

| COMPOUND | SPIKE ADDED (mg/L) | MSD CONCENTRATION (mg/L) | MSD % REC | % RPD | QC LIMITS RPD | QC LIMITS REC | # |
|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 1.00 | 0.905 | 91 | 4 | 30 | 67-139 | |
| 1,2-Dichloroethane | 1.00 | 0.865 | 87 | 2 | 30 | 80-115 | |
| Benzene | 1.00 | 0.870 | 87 | 1 | 30 | 85-119 | |
| Carbon tetrachloride | 1.00 | 0.955 | 96 | 5 | 30 | 60-110 | |
| Chlorobenzene | 1.00 | 0.910 | 91 | 1 | 30 | 85-113 | |
| Chloroform | 1.00 | 0.865 | 87 | 2 | 30 | 86-124 | |
| 2-Butanone (MEK) | 2.00 | 1.75 | 87 | 4 | 30 | 49-117 | |
| Tetrachloroethene | 1.00 | 0.975 | 98 | 0 | 30 | 74-138 | |
| Trichloroethene | 1.00 | 0.980 | 98 | 0 | 30 | 75-134 | |
| Vinyl chloride | 1.00 | 0.760 | 76 | 1 | 30 | 51-118 | |

# Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 146724.D

Lab ID: 240-13217-A-1 MS Client ID:

| COMPOUND | SPIKE ADDED (ug/Kg) | SAMPLE CONCENTRATION (ug/Kg) | MS CONCENTRATION (ug/Kg) | MS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 55.8 | 5.6 U | 58.4 | 105 | 34-135 | |
| 1,1,1-Trichloroethane | 55.8 | 5.6 U | 52.9 | 95 | 51-128 | |
| 1,1,2,2-Tetrachloroethane | 55.8 | 5.6 U | 75.7 | 136 | 16-179 | |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 55.8 | 5.6 U | 58.3 | 105 | 50-147 | |
| 1,1-Dichloroethane | 55.8 | 5.6 U | 60.7 | 109 | 54-122 | |
| 1,1-Dichloroethene | 55.8 | 5.6 U | 61.5 | 110 | 49-157 | |
| 1,1-Dichloropropene | 55.8 | 5.6 U | 61.0 | 109 | 50-122 | |
| 1,2,3-Trichlorobenzene | 55.8 | 5.6 U | 21.5 | 39 | 10-110 | |
| 1,2,3-Trichloropropane | 55.8 | 5.6 U | 72.2 | 129 | 32-174 | |
| 1,2,3-Trimethylbenzene | 55.8 | 5.6 U | 63.1 | 113 | 70-130 | |
| 1,2,4-Trichlorobenzene | 55.8 | 5.6 U | 25.0 | 45 | 10-111 | |
| 1,2,4-Trimethylbenzene | 55.8 | 5.6 U | 66.7 | 120 | 10-173 | |
| 1,2-Dibromo-3-Chloropropane | 55.8 | 11 U | 54.8 | 98 | 10-153 | |
| 1,2-Dichlorobenzene | 55.8 | 5.6 U | 49.3 | 88 | 17-122 | |
| 1,2-Dichloroethane | 55.8 | 5.6 U | 65.6 | 118 | 49-123 | |
| 1,2-Dichloropropane | 55.8 | 5.6 U | 63.7 | 114 | 61-117 | |
| 1,3-Dichlorobenzene | 55.8 | 5.6 U | 54.4 | 98 | 16-126 | |
| 1,3-Dichloropropane | 55.8 | 5.6 U | 69.3 | 124 | 54-128 | |
| 1,4-Dichlorobenzene | 55.8 | 5.6 U | 52.4 | 94 | 15-121 | |
| 2,2-Dichloropropane | 55.8 | 5.6 U | 44.8 | 80 | 49-132 | |
| 2-Chloroethyl vinyl ether | 55.8 | 56 U | 49.9 J | 89 | 10-162 | |
| 2-Chlorotoluene | 55.8 | 5.6 U | 66.5 | 119 | 11-162 | |
| 2-Hexanone | 112 | 22 U | 153 | 138 | 37-147 | |
| 4-Chlorotoluene | 55.8 | 5.6 U | 65.4 | 117 | 15-149 | |
| Acetone | 112 | 22 U | 125 | 112 | 24-140 | |
| Benzene | 55.8 | 5.6 U | 59.7 | 107 | 53-118 | |
| Bromobenzene | 55.8 | 5.6 U | 68.3 | 122 | 24-144 | |
| Bromochloromethane | 55.8 | 5.6 U | 52.0 | 93 | 53-116 | |
| Bromoform | 55.8 | 5.6 U | 53.6 | 96 | 18-129 | |
| Bromomethane | 55.8 | 5.6 U | 52.3 | 94 | 33-130 | |
| Carbon disulfide | 55.8 | 5.6 U | 44.7 | 80 | 20-151 | |
| Carbon tetrachloride | 55.8 | 5.6 U | 53.9 | 97 | 32-137 | |
| Chlorobenzene | 55.8 | 5.6 U | 59.7 | 107 | 37-116 | |
| Chloroethane | 55.8 | 5.6 U | 49.9 | 89 | 45-118 | |
| Chloroform | 55.8 | 5.6 U | 59.0 | 106 | 53-119 | |
| Chloromethane | 55.8 | 5.6 U | 51.6 | 93 | 34-117 | |
| cis-1,2-Dichloroethene | 55.8 | 5.6 U | 55.7 | 100 | 50-119 | |
| Bromodichloromethane | 55.8 | 5.6 U | 56.7 | 102 | 35-132 | |
| cis-1,3-Dichloropropene | 55.8 | 5.6 U | 55.4 | 99 | 27-133 | |
| 1,2-Dibromoethane | 55.8 | 5.6 U | 60.3 | 108 | 45-127 | |
| Dibromomethane | 55.8 | 5.6 U | 64.8 | 116 | 52-123 | |

# Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 146724.D

Lab ID: 240-13217-A-1 MS Client ID:

| COMPOUND | SPIKE ADDED (ug/Kg) | SAMPLE CONCENTRATION (ug/Kg) | MS CONCENTRATION (ug/Kg) | MS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 55.8 | 5.6 U | 46.3 | 83 | 17-115 | |
| Diisopropyl ether | 55.8 | 11 U | 57.0 | 102 | 62-128 | |
| Ethylbenzene | 55.8 | 5.6 U | 58.4 | 105 | 30-131 | |
| Hexachlorobutadiene | 55.8 | 5.6 U | 30.4 | 55 | 10-131 | |
| Isopropylbenzene | 55.8 | 5.6 U | 56.4 | 101 | 21-134 | |
| 2-Butanone | 112 | 22 U | 129 | 115 | 30-143 | |
| 4-Methyl-2-pentanone | 112 | 22 U | 153 | 138 | 43-147 | |
| m-Xylene & p-Xylene | 112 | 11 U | 115 | 104 | 29-131 | |
| Methyl tert-butyl ether | 55.8 | 22 U | 60.7 | 109 | 51-157 | |
| Naphthalene | 55.8 | 0.29 J | 27.7 | 49 | 10-124 | |
| n-Butylbenzene | 55.8 | 0.42 J | 50.0 | 89 | 10-148 | |
| Methylene Chloride | 55.8 | 5.6 U | 49.0 | 88 | 54-115 | |
| n-Propylbenzene | 55.8 | 5.6 U | 74.5 | 134 | 10-178 | |
| o-Xylene | 55.8 | 5.6 U | 55.0 | 99 | 29-134 | |
| p-Isopropyltoluene | 55.8 | 5.6 U | 55.4 | 99 | 10-165 | |
| sec-Butylbenzene | 55.8 | 5.6 U | 53.4 | 96 | 10-172 | |
| Styrene | 55.8 | 5.6 U | 56.0 | 100 | 27-127 | |
| tert-Butylbenzene | 55.8 | 5.6 U | 56.5 | 101 | 10-163 | |
| Tetrachloroethene | 55.8 | 5.6 U | 62.0 | 111 | 31-135 | |
| Toluene | 55.8 | 5.6 U | 61.0 | 109 | 39-129 | |
| trans-1,2-Dichloroethene | 55.8 | 5.6 U | 56.5 | 101 | 50-123 | |
| trans-1,3-Dichloropropene | 55.8 | 5.6 U | 64.6 | 116 | 28-137 | |
| Trichloroethene | 55.8 | 5.6 U | 55.8 | 100 | 10-177 | |
| Trichlorofluoromethane | 55.8 | 5.6 U | 55.4 | 99 | 36-142 | |
| tert-Butyl alcohol | 1120 | 220 U | 1220 | 109 | 60-125 | |
| Vinyl acetate | 55.8 | 11 U | 16.2 | 29 | 70-130 | F |
| Vinyl chloride | 55.8 | 5.6 U | 54.3 | 97 | 42-117 | |
| Dibromochloromethane | 55.8 | 5.6 U | 56.8 | 102 | 29-135 | |
| Xylenes, Total | 167 | 11 U | 170 | 102 | 30-131 | |

# Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 146725.D

Lab ID: 240-13217-A-1 MSD Client ID:

| COMPOUND | SPIKE ADDED (ug/Kg) | MSD CONCENTRATION (ug/Kg) | MSD % REC | % RPD | QC LIMITS RPD | QC LIMITS REC | # |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 55.8 | 55.9 | 100 | 4 | 30 | 34-135 | |
| 1,1,1-Trichloroethane | 55.8 | 52.4 | 94 | 1 | 30 | 51-128 | |
| 1,1,2,2-Tetrachloroethane | 55.8 | 76.2 | 137 | 1 | 30 | 16-179 | |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 55.8 | 59.1 | 106 | 1 | 30 | 50-147 | |
| 1,1-Dichloroethane | 55.8 | 60.1 | 108 | 1 | 30 | 54-122 | |
| 1,1-Dichloroethene | 55.8 | 61.1 | 110 | 1 | 30 | 49-157 | |
| 1,1-Dichloropropene | 55.8 | 59.0 | 106 | 3 | 30 | 50-122 | |
| 1,2,3-Trichlorobenzene | 55.8 | 19.9 | 36 | 8 | 30 | 10-110 | |
| 1,2,3-Trichloropropane | 55.8 | 73.5 | 132 | 2 | 30 | 32-174 | |
| 1,2,3-Trimethylbenzene | 55.8 | 61.7 | 111 | 2 | 30 | 70-130 | |
| 1,2,4-Trichlorobenzene | 55.8 | 23.1 | 41 | 8 | 30 | 10-111 | |
| 1,2,4-Trimethylbenzene | 55.8 | 64.6 | 116 | 3 | 30 | 10-173 | |
| 1,2-Dibromo-3-Chloropropane | 55.8 | 57.6 | 103 | 5 | 30 | 10-153 | |
| 1,2-Dichlorobenzene | 55.8 | 46.7 | 84 | 5 | 30 | 17-122 | |
| 1,2-Dichloroethane | 55.8 | 64.0 | 115 | 2 | 30 | 49-123 | |
| 1,2-Dichloropropane | 55.8 | 63.1 | 113 | 1 | 30 | 61-117 | |
| 1,3-Dichlorobenzene | 55.8 | 51.8 | 93 | 5 | 30 | 16-126 | |
| 1,3-Dichloropropane | 55.8 | 67.4 | 121 | 3 | 30 | 54-128 | |
| 1,4-Dichlorobenzene | 55.8 | 49.2 | 88 | 6 | 30 | 15-121 | |
| 2,2-Dichloropropane | 55.8 | 45.3 | 81 | 1 | 30 | 49-132 | |
| 2-Chloroethyl vinyl ether | 55.8 | 47.3 J | 85 | 5 | 30 | 10-162 | |
| 2-Chlorotoluene | 55.8 | 66.3 | 119 | 0 | 30 | 11-162 | |
| 2-Hexanone | 112 | 145 | 130 | 6 | 30 | 37-147 | |
| 4-Chlorotoluene | 55.8 | 62.8 | 113 | 4 | 30 | 15-149 | |
| Acetone | 112 | 118 | 106 | 6 | 30 | 24-140 | |
| Benzene | 55.8 | 58.7 | 105 | 2 | 30 | 53-118 | |
| Bromobenzene | 55.8 | 68.3 | 122 | 0 | 30 | 24-144 | |
| Bromochloromethane | 55.8 | 52.4 | 94 | 1 | 30 | 53-116 | |
| Bromoform | 55.8 | 51.9 | 93 | 3 | 30 | 18-129 | |
| Bromomethane | 55.8 | 52.3 | 94 | 0 | 30 | 33-130 | |
| Carbon disulfide | 55.8 | 44.3 | 79 | 1 | 30 | 20-151 | |
| Carbon tetrachloride | 55.8 | 54.5 | 98 | 1 | 30 | 32-137 | |
| Chlorobenzene | 55.8 | 56.9 | 102 | 5 | 30 | 37-116 | |
| Chloroethane | 55.8 | 50.7 | 91 | 2 | 30 | 45-118 | |
| Chloroform | 55.8 | 58.0 | 104 | 2 | 30 | 53-119 | |
| Chloromethane | 55.8 | 52.5 | 94 | 2 | 30 | 34-117 | |
| cis-1,2-Dichloroethene | 55.8 | 55.9 | 100 | 0 | 30 | 50-119 | |
| Bromodichloromethane | 55.8 | 56.0 | 100 | 1 | 30 | 35-132 | |
| cis-1,3-Dichloropropene | 55.8 | 52.6 | 94 | 5 | 30 | 27-133 | |
| 1,2-Dibromoethane | 55.8 | 60.9 | 109 | 1 | 30 | 45-127 | |
| Dibromomethane | 55.8 | 62.5 | 112 | 4 | 30 | 52-123 | |

# Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 146725.D

Lab ID: 240-13217-A-1 MSD Client ID:

| COMPOUND | SPIKE ADDED (ug/Kg) | MSD CONCENTRATION (ug/Kg) | MSD % REC | % RPD | QC LIMITS RPD | QC LIMITS REC | # |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 55.8 | 46.2 | 83 | 0 | 30 | 17-115 | |
| Diisopropyl ether | 55.8 | 55.7 | 100 | 2 | 30 | 62-128 | |
| Ethylbenzene | 55.8 | 56.3 | 101 | 4 | 30 | 30-131 | |
| Hexachlorobutadiene | 55.8 | 31.0 | 56 | 2 | 30 | 10-131 | |
| Isopropylbenzene | 55.8 | 53.2 | 95 | 6 | 30 | 21-134 | |
| 2-Butanone | 112 | 126 | 113 | 2 | 30 | 30-143 | |
| 4-Methyl-2-pentanone | 112 | 147 | 132 | 4 | 30 | 43-147 | |
| m-Xylene & p-Xylene | 112 | 111 | 99 | 4 | 30 | 29-131 | |
| Methyl tert-butyl ether | 55.8 | 59.1 | 106 | 3 | 30 | 51-157 | |
| Naphthalene | 55.8 | 24.9 | 44 | 11 | 30 | 10-124 | |
| n-Butylbenzene | 55.8 | 47.2 | 84 | 6 | 30 | 10-148 | |
| Methylene Chloride | 55.8 | 48.1 | 86 | 2 | 30 | 54-115 | |
| n-Propylbenzene | 55.8 | 72.3 | 130 | 3 | 30 | 10-178 | |
| o-Xylene | 55.8 | 53.8 | 96 | 2 | 30 | 29-134 | |
| p-Isopropyltoluene | 55.8 | 53.5 | 96 | 3 | 30 | 10-165 | |
| sec-Butylbenzene | 55.8 | 52.4 | 94 | 2 | 30 | 10-172 | |
| Styrene | 55.8 | 53.4 | 96 | 5 | 30 | 27-127 | |
| tert-Butylbenzene | 55.8 | 57.3 | 103 | 1 | 30 | 10-163 | |
| Tetrachloroethene | 55.8 | 60.8 | 109 | 2 | 30 | 31-135 | |
| Toluene | 55.8 | 59.8 | 107 | 2 | 30 | 39-129 | |
| trans-1,2-Dichloroethene | 55.8 | 56.4 | 101 | 0 | 30 | 50-123 | |
| trans-1,3-Dichloropropene | 55.8 | 62.5 | 112 | 3 | 30 | 28-137 | |
| Trichloroethene | 55.8 | 55.2 | 99 | 1 | 30 | 10-177 | |
| Trichlorofluoromethane | 55.8 | 54.5 | 98 | 2 | 30 | 36-142 | |
| tert-Butyl alcohol | 1120 | 1120 | 100 | 8 | 30 | 60-125 | |
| Vinyl acetate | 55.8 | 10.4 J | 19 | 43 | 30 | 70-130 | F |
| Vinyl chloride | 55.8 | 53.5 | 96 | 1 | 30 | 42-117 | |
| Dibromochloromethane | 55.8 | 55.0 | 99 | 3 | 30 | 29-135 | |
| Xylenes, Total | 167 | 165 | 99 | 3 | 30 | 30-131 | |

# Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 146775.D

Lab ID: 240-13194-A-2 MS Client ID:

| COMPOUND | SPIKE ADDED (ug/Kg) | SAMPLE CONCENTRATION (ug/Kg) | MS CONCENTRATION (ug/Kg) | MS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 53.5 | 5.3 U | 49.5 | 93 | 34-135 | |
| 1,1,1-Trichloroethane | 53.5 | 5.3 U | 48.5 | 91 | 51-128 | |
| 1,1,2,2-Tetrachloroethane | 53.5 | 5.3 U | 55.1 | 103 | 16-179 | |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 53.5 | 5.3 U | 54.8 | 102 | 50-147 | |
| 1,1-Dichloroethane | 53.5 | 5.3 U | 56.8 | 106 | 54-122 | |
| 1,1-Dichloroethene | 53.5 | 5.3 U | 59.9 | 112 | 49-157 | |
| 1,1-Dichloropropene | 53.5 | 5.3 U | 51.6 | 96 | 50-122 | |
| 1,2,3-Trichlorobenzene | 53.5 | 5.3 U | 18.4 | 34 | 10-110 | |
| 1,2,3-Trichloropropane | 53.5 | 5.3 U | 53.7 | 100 | 32-174 | |
| 1,2,3-Trimethylbenzene | 53.5 | 5.3 U | 45.7 | 85 | 70-130 | |
| 1,2,4-Trichlorobenzene | 53.5 | 5.3 U | 20.6 | 39 | 10-111 | |
| 1,2,4-Trimethylbenzene | 53.5 | 5.3 U | 47.3 | 88 | 10-173 | |
| 1,2-Dibromo-3-Chloropropane | 53.5 | 11 U | 42.8 | 80 | 10-153 | |
| 1,2-Dichlorobenzene | 53.5 | 5.3 U | 37.3 | 70 | 17-122 | |
| 1,2-Dichloroethane | 53.5 | 5.3 U | 57.9 | 108 | 49-123 | |
| 1,2-Dichloropropane | 53.5 | 5.3 U | 55.2 | 103 | 61-117 | |
| 1,3-Dichlorobenzene | 53.5 | 5.3 U | 38.2 | 71 | 16-126 | |
| 1,3-Dichloropropane | 53.5 | 5.3 U | 57.5 | 108 | 54-128 | |
| 1,4-Dichlorobenzene | 53.5 | 5.3 U | 37.0 | 69 | 15-121 | |
| 2,2-Dichloropropane | 53.5 | 5.3 U | 42.1 | 79 | 49-132 | |
| 2-Chloroethyl vinyl ether | 53.5 | 53 U | 46.3 J | 87 | 10-162 | |
| 2-Chlorotoluene | 53.5 | 5.3 U | 48.3 | 90 | 11-162 | |
| 2-Hexanone | 107 | 21 U | 126 | 118 | 37-147 | |
| 4-Chlorotoluene | 53.5 | 5.3 U | 44.5 | 83 | 15-149 | |
| Acetone | 107 | 21 U | 115 | 108 | 24-140 | |
| Benzene | 53.5 | 5.3 U | 53.1 | 99 | 53-118 | |
| Bromobenzene | 53.5 | 5.3 U | 48.7 | 91 | 24-144 | |
| Bromochloromethane | 53.5 | 5.3 U | 47.5 | 89 | 53-116 | |
| Bromoform | 53.5 | 5.3 U | 43.2 | 81 | 18-129 | |
| Bromomethane | 53.5 | 5.3 U | 51.0 | 95 | 33-130 | |
| Carbon disulfide | 53.5 | 3.6 J | 41.5 | 71 | 20-151 | |
| Carbon tetrachloride | 53.5 | 5.3 U | 47.2 | 88 | 32-137 | |
| Chlorobenzene | 53.5 | 5.3 U | 47.8 | 89 | 37-116 | |
| Chloroethane | 53.5 | 5.3 U | 49.2 | 92 | 45-118 | |
| Chloroform | 53.5 | 41 | 88.5 | 88 | 53-119 | |
| Chloromethane | 53.5 | 5.3 U | 53.1 | 99 | 34-117 | |
| cis-1,2-Dichloroethene | 53.5 | 5.3 U | 51.8 | 97 | 50-119 | |
| Bromodichloromethane | 53.5 | 5.3 U | 47.7 | 89 | 35-132 | |
| cis-1,3-Dichloropropene | 53.5 | 5.3 U | 44.2 | 83 | 27-133 | |
| 1,2-Dibromoethane | 53.5 | 5.3 U | 52.2 | 98 | 45-127 | |
| Dibromomethane | 53.5 | 5.3 U | 55.4 | 104 | 52-123 | |

# Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 146775.D

Lab ID: 240-13194-A-2 MS Client ID:

| COMPOUND | SPIKE ADDED (ug/Kg) | SAMPLE CONCENTRATION (ug/Kg) | MS CONCENTRATION (ug/Kg) | MS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 53.5 | 5.3 U | 43.0 | 80 | 17-115 | |
| Diisopropyl ether | 53.5 | 11 U | 50.4 | 94 | 62-128 | |
| Ethylbenzene | 53.5 | 5.3 U | 46.2 | 86 | 30-131 | |
| Hexachlorobutadiene | 53.5 | 5.3 U | 20.6 | 39 | 10-131 | |
| Isopropylbenzene | 53.5 | 5.3 U | 44.4 | 83 | 21-134 | |
| 2-Butanone | 107 | 21 U | 111 | 104 | 30-143 | |
| 4-Methyl-2-pentanone | 107 | 21 U | 130 | 122 | 43-147 | |
| m-Xylene & p-Xylene | 107 | 11 U | 89.4 | 84 | 29-131 | |
| Methyl tert-butyl ether | 53.5 | 21 U | 55.9 | 105 | 51-157 | |
| Naphthalene | 53.5 | 5.3 U | 24.5 | 46 | 10-124 | |
| n-Butylbenzene | 53.5 | 5.3 U | 33.4 | 62 | 10-148 | |
| Methylene Chloride | 53.5 | 5.3 U | 48.1 | 90 | 54-115 | |
| n-Propylbenzene | 53.5 | 5.3 U | 51.7 | 97 | 10-178 | |
| o-Xylene | 53.5 | 5.3 U | 44.9 | 84 | 29-134 | |
| p-Isopropyltoluene | 53.5 | 5.3 U | 37.1 | 69 | 10-165 | |
| sec-Butylbenzene | 53.5 | 5.3 U | 37.2 | 70 | 10-172 | |
| Styrene | 53.5 | 5.3 U | 44.2 | 83 | 27-127 | |
| tert-Butylbenzene | 53.5 | 5.3 U | 40.6 | 76 | 10-163 | |
| Tetrachloroethene | 53.5 | 11 | 62.4 | 96 | 31-135 | |
| Toluene | 53.5 | 0.52 J | 51.4 | 95 | 39-129 | |
| trans-1,2-Dichloroethene | 53.5 | 5.3 U | 53.1 | 99 | 50-123 | |
| trans-1,3-Dichloropropene | 53.5 | 5.3 U | 52.2 | 98 | 28-137 | |
| Trichloroethene | 53.5 | 19 | 67.2 | 90 | 10-177 | |
| Trichlorofluoromethane | 53.5 | 5.3 U | 49.0 | 92 | 36-142 | |
| tert-Butyl alcohol | 1070 | 210 U | 1040 | 98 | 60-125 | |
| Vinyl acetate | 53.5 | 11 U | 19.3 | 36 | 70-130 | F |
| Vinyl chloride | 53.5 | 5.3 U | 53.5 | 100 | 42-117 | |
| Dibromochloromethane | 53.5 | 5.3 U | 46.8 | 88 | 29-135 | |
| Xylenes, Total | 160 | 11 U | 134 | 84 | 30-131 | |

# Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 146776.D

Lab ID: 240-13194-A-2 MSD Client ID:

| COMPOUND | SPIKE ADDED (ug/Kg) | MSD CONCENTRATION (ug/Kg) | MSD % REC | % RPD | QC LIMITS RPD | QC LIMITS REC | # |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 53.5 | 49.2 | 92 | 1 | 30 | 34-135 | |
| 1,1,1-Trichloroethane | 53.5 | 45.6 | 85 | 6 | 30 | 51-128 | |
| 1,1,2,2-Tetrachloroethane | 53.5 | 52.0 | 97 | 6 | 30 | 16-179 | |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 53.5 | 52.5 | 98 | 4 | 30 | 50-147 | |
| 1,1-Dichloroethane | 53.5 | 55.0 | 103 | 3 | 30 | 54-122 | |
| 1,1-Dichloroethene | 53.5 | 56.9 | 106 | 5 | 30 | 49-157 | |
| 1,1-Dichloropropene | 53.5 | 49.7 | 93 | 4 | 30 | 50-122 | |
| 1,2,3-Trichlorobenzene | 53.5 | 17.8 | 33 | 4 | 30 | 10-110 | |
| 1,2,3-Trichloropropane | 53.5 | 53.1 | 99 | 1 | 30 | 32-174 | |
| 1,2,3-Trimethylbenzene | 53.5 | 43.5 | 81 | 5 | 30 | 70-130 | |
| 1,2,4-Trichlorobenzene | 53.5 | 19.5 | 36 | 6 | 30 | 10-111 | |
| 1,2,4-Trimethylbenzene | 53.5 | 43.9 | 82 | 8 | 30 | 10-173 | |
| 1,2-Dibromo-3-Chloropropane | 53.5 | 44.1 | 82 | 3 | 30 | 10-153 | |
| 1,2-Dichlorobenzene | 53.5 | 35.2 | 66 | 6 | 30 | 17-122 | |
| 1,2-Dichloroethane | 53.5 | 56.5 | 106 | 2 | 30 | 49-123 | |
| 1,2-Dichloropropane | 53.5 | 54.0 | 101 | 2 | 30 | 61-117 | |
| 1,3-Dichlorobenzene | 53.5 | 36.9 | 69 | 3 | 30 | 16-126 | |
| 1,3-Dichloropropane | 53.5 | 58.1 | 109 | 1 | 30 | 54-128 | |
| 1,4-Dichlorobenzene | 53.5 | 34.9 | 65 | 6 | 30 | 15-121 | |
| 2,2-Dichloropropane | 53.5 | 40.9 | 76 | 3 | 30 | 49-132 | |
| 2-Chloroethyl vinyl ether | 53.5 | 44.8 J | 84 | 3 | 30 | 10-162 | |
| 2-Chlorotoluene | 53.5 | 45.1 | 84 | 7 | 30 | 11-162 | |
| 2-Hexanone | 107 | 125 | 117 | 1 | 30 | 37-147 | |
| 4-Chlorotoluene | 53.5 | 41.8 | 78 | 6 | 30 | 15-149 | |
| Acetone | 107 | 113 | 106 | 2 | 30 | 24-140 | |
| Benzene | 53.5 | 50.8 | 95 | 4 | 30 | 53-118 | |
| Bromobenzene | 53.5 | 46.8 | 88 | 4 | 30 | 24-144 | |
| Bromochloromethane | 53.5 | 47.4 | 89 | 0 | 30 | 53-116 | |
| Bromoform | 53.5 | 40.8 | 76 | 6 | 30 | 18-129 | |
| Bromomethane | 53.5 | 47.5 | 89 | 7 | 30 | 33-130 | |
| Carbon disulfide | 53.5 | 39.9 | 68 | 4 | 30 | 20-151 | |
| Carbon tetrachloride | 53.5 | 45.0 | 84 | 5 | 30 | 32-137 | |
| Chlorobenzene | 53.5 | 44.8 | 84 | 6 | 30 | 37-116 | |
| Chloroethane | 53.5 | 48.3 | 90 | 2 | 30 | 45-118 | |
| Chloroform | 53.5 | 91.2 | 94 | 3 | 30 | 53-119 | |
| Chloromethane | 53.5 | 50.6 | 95 | 5 | 30 | 34-117 | |
| cis-1,2-Dichloroethene | 53.5 | 49.9 | 93 | 4 | 30 | 50-119 | |
| Bromodichloromethane | 53.5 | 46.3 | 87 | 3 | 30 | 35-132 | |
| cis-1,3-Dichloropropene | 53.5 | 42.9 | 80 | 3 | 30 | 27-133 | |
| 1,2-Dibromoethane | 53.5 | 49.8 | 93 | 5 | 30 | 45-127 | |
| Dibromomethane | 53.5 | 53.7 | 100 | 3 | 30 | 52-123 | |

# Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 146776.D

Lab ID: 240-13194-A-2 MSD Client ID:

| COMPOUND | SPIKE ADDED (ug/Kg) | MSD CONCENTRATION (ug/Kg) | MSD % REC | % RPD | QC LIMITS RPD | QC LIMITS REC | # |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 53.5 | 41.1 | 77 | 5 | 30 | 17-115 | |
| Diisopropyl ether | 53.5 | 50.2 | 94 | 0 | 30 | 62-128 | |
| Ethylbenzene | 53.5 | 44.1 | 82 | 5 | 30 | 30-131 | |
| Hexachlorobutadiene | 53.5 | 20.5 | 38 | 1 | 30 | 10-131 | |
| Isopropylbenzene | 53.5 | 41.0 | 77 | 8 | 30 | 21-134 | |
| 2-Butanone | 107 | 117 | 109 | 5 | 30 | 30-143 | |
| 4-Methyl-2-pentanone | 107 | 131 | 123 | 1 | 30 | 43-147 | |
| m-Xylene & p-Xylene | 107 | 84.9 | 79 | 5 | 30 | 29-131 | |
| Methyl tert-butyl ether | 53.5 | 54.7 | 102 | 2 | 30 | 51-157 | |
| Naphthalene | 53.5 | 23.9 | 45 | 3 | 30 | 10-124 | |
| n-Butylbenzene | 53.5 | 31.2 | 58 | 7 | 30 | 10-148 | |
| Methylene Chloride | 53.5 | 47.8 | 89 | 1 | 30 | 54-115 | |
| n-Propylbenzene | 53.5 | 47.4 | 89 | 9 | 30 | 10-178 | |
| o-Xylene | 53.5 | 42.5 | 79 | 6 | 30 | 29-134 | |
| p-Isopropyltoluene | 53.5 | 34.8 | 65 | 7 | 30 | 10-165 | |
| sec-Butylbenzene | 53.5 | 34.8 | 65 | 7 | 30 | 10-172 | |
| Styrene | 53.5 | 41.7 | 78 | 6 | 30 | 27-127 | |
| tert-Butylbenzene | 53.5 | 38.3 | 72 | 6 | 30 | 10-163 | |
| Tetrachloroethene | 53.5 | 61.0 | 93 | 2 | 30 | 31-135 | |
| Toluene | 53.5 | 49.9 | 92 | 3 | 30 | 39-129 | |
| trans-1,2-Dichloroethene | 53.5 | 51.0 | 95 | 4 | 30 | 50-123 | |
| trans-1,3-Dichloropropene | 53.5 | 51.7 | 97 | 1 | 30 | 28-137 | |
| Trichloroethene | 53.5 | 67.3 | 91 | 0 | 30 | 10-177 | |
| Trichlorofluoromethane | 53.5 | 47.6 | 89 | 3 | 30 | 36-142 | |
| tert-Butyl alcohol | 1070 | 1030 | 96 | 1 | 30 | 60-125 | |
| Vinyl acetate | 53.5 | 20.9 | 39 | 8 | 30 | 70-130 | F |
| Vinyl chloride | 53.5 | 52.2 | 98 | 2 | 30 | 42-117 | |
| Dibromochloromethane | 53.5 | 47.4 | 89 | 1 | 30 | 29-135 | |
| Xylenes, Total | 160 | 127 | 79 | 5 | 30 | 30-131 | |

# Column to be used to flag recovery and RPD values

FORM III 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Sample No.: STD8260 240-47806/6  Date Analyzed: 06/19/2012 14:41

Instrument ID: A3UX11  GC Column: DB-624  ID: 0.18(mm)

Lab File ID (Standard): UXJ5154.D  Heated Purge: (Y/N) N

Calibration ID: 9354

| | | FB | | CBZ | | DCB | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | | 1726050 | 5.12 | 1252017 | 7.79 | 392921 | 10.03 |
| UPPER LIMIT | | 3452100 | 5.62 | 2504034 | 8.29 | 785842 | 10.53 |
| LOWER LIMIT | | 863025 | 4.62 | 626009 | 7.29 | 196461 | 9.53 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| ICV 240-47806/22 | | 1708401 | 5.12 | 1248350 | 7.79 | 395805 | 10.03 |
| CCVIS 240-50744/2 | | 1334961 | 5.12 | 979882 | 7.79 | 338552 | 10.03 |

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Sample No.: CCVIS 240-50744/2 Date Analyzed: 07/13/2012 11:51

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXJ5765.D Heated Purge: (Y/N) N

Calibration ID: 9358

| | | FB | | CBZ | | DCB | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 1334961 | 5.12 | 979882 | 7.79 | 338552 | 10.03 |
| UPPER LIMIT | | 2669922 | 5.62 | 1959764 | 8.29 | 677104 | 10.53 |
| LOWER LIMIT | | 667481 | 4.62 | 489941 | 7.29 | 169276 | 9.53 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| CCV 240-50744/3 | | 1296684 | 5.12 | 971824 | 7.79 | 322289 | 10.03 |
| LCS 240-50744/4 | | 1256344 | 5.12 | 951293 | 7.79 | 310332 | 10.03 |
| MB 240-50744/5 | | 1256499 | 5.12 | 937992 | 7.79 | 300201 | 10.03 |
| 240-13078-A-2 MS | | 1237944 | 5.12 | 925331 | 7.79 | 305506 | 10.03 |
| 240-13078-D-2 MSD | | 1231372 | 5.12 | 923171 | 7.79 | 303684 | 10.03 |
| 240-13070-1 | TB-071012 | 1225217 | 5.12 | 916863 | 7.79 | 296697 | 10.03 |

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Sample No.: STD8260 240-33074/7 Date Analyzed: 02/07/2012 21:34

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UX122180.D Heated Purge: (Y/N) N

Calibration ID: 6865

| | | FB | | CBZ | | DCB | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | | 1426498 | 5.32 | 1110703 | 8.00 | 481844 | 10.23 |
| UPPER LIMIT | | 2852996 | 5.82 | 2221406 | 8.50 | 963688 | 10.73 |
| LOWER LIMIT | | 713249 | 4.82 | 555352 | 7.50 | 240922 | 9.73 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| ICV 240-33074/15 | | 1466585 | 5.32 | 1106284 | 8.00 | 510620 | 10.23 |
| CCVIS 240-50783/2 | | 1455484 | 5.32 | 1107532 | 8.00 | 542595 | 10.23 |

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Sample No.: CCVIS 240-50783/2  Date Analyzed: 07/13/2012 15:11

Instrument ID: A3UX12  GC Column: DB-624  ID: 0.18(mm)

Lab File ID (Standard): UX124979.D  Heated Purge: (Y/N) N

Calibration ID: 6868

| | | FB | | CBZ | | DCB | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 1455484 | 5.32 | 1107532 | 8.00 | 542595 | 10.23 |
| UPPER LIMIT | | 2910968 | 5.82 | 2215064 | 8.50 | 1085190 | 10.73 |
| LOWER LIMIT | | 727742 | 4.82 | 553766 | 7.50 | 271298 | 9.73 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| LB 240-50667/1-A MB | | 1412327 | 5.32 | 1085951 | 8.00 | 515802 | 10.23 |
| LCS 240-50783/18 | | 1418217 | 5.32 | 1072667 | 8.00 | 526905 | 10.23 |
| 240-13070-4 | MT-TCLP-8-10 | 1395210 | 5.32 | 1070246 | 8.00 | 515630 | 10.23 |
| 240-13101-D-3-A MS | | 1413211 | 5.32 | 1065338 | 8.00 | 538796 | 10.23 |
| 240-13101-D-3-A MSD | | 1408704 | 5.32 | 1053357 | 8.00 | 514448 | 10.23 |

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Sample No.: ICIS 240-49285/5  Date Analyzed: 06/28/2012 15:06

Instrument ID: A3UX14  GC Column: DB-624  ID: 0.18(mm)

Lab File ID (Standard): 146445.D  Heated Purge: (Y/N) Y

Calibration ID: 9778

| | | FB | | CBZ | | DCB | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | | 1679602 | 6.89 | 1060993 | 9.59 | 545568 | 11.57 |
| UPPER LIMIT | | 3359204 | 7.39 | 2121986 | 10.09 | 1091136 | 12.07 |
| LOWER LIMIT | | 839801 | 6.39 | 530497 | 9.09 | 272784 | 11.07 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| ICV 240-49285/21 | | 1671105 | 6.89 | 1082957 | 9.59 | 539318 | 11.57 |
| CCVIS 240-50749/3 | | 1909407 | 6.89 | 1190411 | 9.59 | 590557 | 11.57 |
| CCVIS 240-50900/3 | | 1935745 | 6.89 | 1182405 | 9.60 | 585431 | 11.57 |
| CCVIS 240-51061/3 | | 1681393 | 6.89 | 1026028 | 9.60 | 488552 | 11.57 |

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Sample No.: CCVIS 240-50749/3 Date Analyzed: 07/13/2012 12:50

Instrument ID: A3UX14 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 146686.D Heated Purge: (Y/N) Y

Calibration ID: 9780

| | | FB | | CBZ | | DCB | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 1909407 | 6.89 | 1190411 | 9.59 | 590557 | 11.57 |
| UPPER LIMIT | | 3818814 | 7.39 | 2380822 | 10.09 | 1181114 | 12.07 |
| LOWER LIMIT | | 954704 | 6.39 | 595206 | 9.09 | 295279 | 11.07 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| CCV 240-50749/4 | | 1943611 | 6.89 | 1182436 | 9.59 | 569066 | 11.57 |
| LCS 240-50627/2-A | | 1910692 | 6.89 | 1185593 | 9.59 | 601252 | 11.57 |
| MB 240-50627/1-A | | 1864895 | 6.89 | 1105060 | 9.60 | 546821 | 11.57 |

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Sample No.: CCVIS 240-50900/3  Date Analyzed: 07/16/2012 11:51

Instrument ID: A3UX14  GC Column: DB-624  ID: 0.18(mm)

Lab File ID (Standard): 146719.D  Heated Purge: (Y/N) Y

Calibration ID: 9780

| | | FB | | CBZ | | DCB | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 1935745 | 6.89 | 1182405 | 9.60 | 585431 | 11.57 |
| UPPER LIMIT | | 3871490 | 7.39 | 2364810 | 10.10 | 1170862 | 12.07 |
| LOWER LIMIT | | 967873 | 6.39 | 591203 | 9.10 | 292716 | 11.07 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| CCV 240-50900/4 | | 1900920 | 6.89 | 1107657 | 9.59 | 524254 | 11.57 |
| LCS 240-50900/5 | | 1998078 | 6.89 | 1216305 | 9.59 | 566396 | 11.57 |
| MB 240-50900/6 | | 1863573 | 6.89 | 1211765 | 9.59 | 582901 | 11.57 |
| 240-13217-A-1 MS | | 1888082 | 6.89 | 1112065 | 9.59 | 430145 | 11.57 |
| 240-13217-A-1 MSD | | 1823920 | 6.89 | 1057367 | 9.59 | 389994 | 11.57 |
| 240-13070-5 | MT-SB17-0-2 | 1762983 | 6.89 | 1128107 | 9.59 | 569463 | 11.57 |
| 240-13070-6 | MT-SB17-8-10 | 1614569 | 6.89 | 1006077 | 9.59 | 489904 | 11.57 |

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Sample No.: CCVIS 240-51061/3 Date Analyzed: 07/17/2012 12:38

Instrument ID: A3UX14 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 146752.D Heated Purge: (Y/N) Y

Calibration ID: 9780

| | | FB | | CBZ | | DCB | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 1681393 | 6.89 | 1026028 | 9.60 | 488552 | 11.57 |
| UPPER LIMIT | | 3362786 | 7.39 | 2052056 | 10.10 | 977104 | 12.07 |
| LOWER LIMIT | | 840697 | 6.39 | 513014 | 9.10 | 244276 | 11.07 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| CCV 240-51061/4 | | 1639056 | 6.89 | 1031085 | 9.59 | 509637 | 11.57 |
| LCS 240-51061/5 | | 1645757 | 6.89 | 1039875 | 9.59 | 487561 | 11.57 |
| MB 240-51061/6 | | 1616716 | 6.89 | 993930 | 9.59 | 474370 | 11.57 |
| 240-13070-2 | MT-SS18-0-2 | 1574745 | 6.89 | 996416 | 9.59 | 473806 | 11.57 |
| 240-13070-3 | MT-SS18-8-10 | 1596172 | 6.88 | 931785 | 9.59 | 436528 | 11.57 |
| 240-13194-A-2 MS | | 1563344 | 6.89 | 878722 | 9.59 | 369621 | 11.57 |
| 240-13194-A-2 MSD | | 1591162 | 6.89 | 874459 | 9.59 | 366735 | 11.57 |

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8260B

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab File ID: 0704001.D DFTPP Injection Date: 07/04/2012

Instrument ID: A4AG2 DFTPP Injection Time: 07:55

Analysis Batch No.: 49822

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 51 | 30.0- 80.0% of mass 198 | 45.9 | |
| 68 | Less than 2.0% of mass 69 | 0.0 | (0.0)1 |
| 69 | Mass 69 relative abundance | 41.7 | |
| 70 | Less than 2.0% of mass 69 | 0.0 | (0.0)1 |
| 127 | 25.0 - 75.0% of mass 198 | 53.7 | |
| 197 | Less than 1.0% of mass 198 | 0.0 | |
| 198 | Base Peak, 100% relative abundance | 100.0 | |
| 199 | 5.0 to 9.0% of mass 198 | 6.7 | |
| 275 | 10.0- 30.0% of mass 198 | 26.2 | |
| 365 | Greater than 0.75% of mass 198 | 3.6 | |
| 441 | Present, but less than mass 443 | 11.8 | |
| 442 | 40.0 - 110.0% of mass 198 | 80.1 | |
| 443 | 15.0 - 24.0% of mass 442 | 15.4 | (19.2)2 |

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | STD9 240-49822/2 | 0704002.D | 07/04/2012 | 08:12 |
| | STD8 240-49822/3 | 0704003.D | 07/04/2012 | 08:29 |
| | STD7 240-49822/4 | 0704004.D | 07/04/2012 | 08:46 |
| | STD6 240-49822/5 | 0704005.D | 07/04/2012 | 09:03 |
| | STD5 240-49822/6 | 0704006.D | 07/04/2012 | 09:20 |
| | STD4 240-49822/7 | 0704007.D | 07/04/2012 | 09:37 |
| | STD3 240-49822/8 | 0704008.D | 07/04/2012 | 09:54 |
| | STD2 240-49822/9 | 0704009.D | 07/04/2012 | 10:10 |
| | STD1 240-49822/10 | 0704010.D | 07/04/2012 | 10:27 |
| | ICV 240-49822/11 | 0704011.D | 07/04/2012 | 10:44 |

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-13070-1  Analy Batch No.: 49822

SDG No.:

Instrument ID: A4AG2  GC Column: RXI-5SILMS  ID: 0.45(mm)  Heated Purge: (Y/N) N

Calibration Start Date: 07/04/2012 08:12  Calibration End Date: 07/04/2012 10:27  Calibration ID: 9863

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-49822/10 | 0704010.D |
| Level 2 | STD2 240-49822/9 | 0704009.D |
| Level 3 | STD3 240-49822/8 | 0704008.D |
| Level 4 | STD4 240-49822/7 | 0704007.D |
| Level 5 | STD5 240-49822/6 | 0704006.D |
| Level 6 | STD6 240-49822/5 | 0704005.D |
| Level 7 | STD7 240-49822/4 | 0704004.D |
| Level 8 | STD8 240-49822/3 | 0704003.D |
| Level 9 | STD9 240-49822/2 | 0704002.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 1,4-Dioxane | 0.4791 | 0.5309<br>0.4959 | 0.4591<br>0.4886 | 0.4897<br>0.5088 | 0.4755 | Ave | | 0.4910 | | | | 4.4 | | 15.0 | | | |
| N-Nitrosodimethylamine | 0.8307 | 0.7514<br>0.8595 | 0.7987<br>0.8164 | 0.8148<br>0.8517 | 0.8113 | Ave | | 0.8168 | | | | 4.1 | | 15.0 | | | |
| Pyridine | 1.4312 | 1.1703<br>1.4441 | 1.2245<br>1.4638 | 1.3158<br>1.4835 | 1.3528 | Ave | | 1.3607 | | | | 8.5 | | 15.0 | | | |
| Ethyl methacrylate | 1.1705 | 1.0824<br>1.1807 | 1.1418<br>1.1560 | 1.1376<br>1.1950 | 1.1270 | Ave | | 1.1489 | | | | 3.1 | | 15.0 | | | |
| 3-Chloropropionitrile | 1.0347 | 0.9845<br>1.0528 | 0.9885<br>1.0068 | 0.9846<br>1.0338 | 1.0000 | Ave | | 1.0107 | | | | 2.6 | | 15.0 | | | |
| Malononitrile | 1.7199 | 1.6584<br>1.6397 | 1.7281<br>1.4270 | 1.6727<br>1.2746 | 1.7204 | Ave | | 1.6051 | | | | 10.0 | | 15.0 | | | |
| Benzaldehyde | 1.5923<br>1.1113 | 1.3584<br>0.8156 | 1.3318 | 1.3451 | 1.3261 | Ave | | 1.2686 | | | | 19.0 | | 15.0 | | | |
| Phenol | 1.7740 | 1.6150<br>1.8226 | 1.6849<br>1.7872 | 1.6845<br>1.8125 | 1.7533 | Ave | | 1.7417 | | | | 4.2 | | 15.0 | | | |
| Aniline | 2.2256 | 2.0119<br>2.3719 | 2.0019<br>2.3004 | 2.0705<br>2.2931 | 2.1680 | Ave | | 2.1804 | | | | 6.4 | | 15.0 | | | |
| Bis(2-chloroethyl)ether | 1.5929 | 1.5250<br>1.5854 | 1.5294<br>1.5779 | 1.5768<br>1.6087 | 1.5313 | Ave | | 1.5659 | | | | 2.1 | | 15.0 | | | |
| 2-Chlorophenol | 1.4525 | 1.3607<br>1.4997 | 1.3591<br>1.4679 | 1.3848<br>1.4739 | 1.3924 | Ave | | 1.4239 | | | | 3.9 | | 15.0 | | | |
| 1,3-Dichlorobenzene | 1.7856 | 1.6348<br>1.8078 | 1.6587<br>1.7889 | 1.6719<br>1.7931 | 1.6999 | Ave | | 1.7301 | | | | 4.1 | | 15.0 | | | |
| 1,4-Dichlorobenzene | 1.6498 | 1.6262<br>1.6911 | 1.5965<br>1.6679 | 1.5806<br>1.6447 | 1.5917 | Ave | | 1.6311 | | | | 2.4 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-13070-1  Analy Batch No.: 49822

SDG No.:

Instrument ID: A4AG2  GC Column: RXI-5SILMS  ID: 0.45(mm)  Heated Purge: (Y/N) N

Calibration Start Date: 07/04/2012 08:12  Calibration End Date: 07/04/2012 10:27  Calibration ID: 9863

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Benzyl alcohol | 0.9711 | 0.8990<br>1.0053 | 0.8811<br>0.9946 | 0.8977<br>0.9947 | 0.9393 | Ave | | 0.9479 | | | | 5.3 | | 15.0 | | | |
| 1,2-Dichlorobenzene | 1.7253 | 1.6014<br>1.7709 | 1.6245<br>1.7500 | 1.6157<br>1.7541 | 1.6610 | Ave | | 1.6879 | | | | 4.1 | | 15.0 | | | |
| 2-Methylphenol | 1.4132 | 1.3149<br>1.4560 | 1.2839<br>1.4348 | 1.3553<br>1.4282 | 1.3697 | Ave | | 1.3820 | | | | 4.4 | | 15.0 | | | |
| Benzoic acid | 0.2295 | +++++<br>0.2479 | 0.0793<br>0.2513 | 0.1297<br>0.2585 | 0.1869 | Qua | -0.448 | 0.2435 | 0.0005 | | | | | | 1.0000 | | 0.9900 |
| bis (2-chloroisopropyl) ether | 2.4349 | 2.4651<br>2.4704 | 2.3984<br>2.3741 | 2.4470<br>2.3985 | 2.4080 | Ave | | 2.4246 | | | | 1.4 | | 15.0 | | | |
| 3 & 4 Methylphenol | 1.4381 | 1.3493<br>1.4692 | 1.3642<br>1.4540 | 1.3800<br>1.4802 | 1.4089 | Ave | | 1.4180 | | | | 3.5 | | 15.0 | | | |
| N-Nitrosodi-n-propylamine | 1.0849 | 0.9911<br>1.1086 | 1.0367<br>1.0959 | 1.0824<br>1.1103 | 1.0865 | Ave | | 1.0746 | | | 0.0500 | 3.8 | | 15.0 | | | |
| Acetophenone | 1.9933 | 1.9383<br>2.0233 | 1.8687<br>2.0186 | 1.8937<br>2.0459 | 1.9445 | Ave | | 1.9658 | | | | 3.3 | | 15.0 | | | |
| Hexachloroethane | 0.6120 | 0.5914<br>0.6341 | 0.5751<br>0.6190 | 0.5794<br>0.6369 | 0.6025 | Ave | | 0.6063 | | | | 3.9 | | 15.0 | | | |
| Nitrobenzene | 0.4397 | 0.4111<br>0.4477 | 0.4254<br>0.4440 | 0.4107<br>0.4572 | 0.4297 | Ave | | 0.4332 | | | | 3.9 | | 15.0 | | | |
| Isophorone | 0.6910 | 0.6229<br>0.7052 | 0.6497<br>0.6959 | 0.6495<br>0.7179 | 0.6686 | Ave | | 0.6751 | | | | 4.8 | | 15.0 | | | |
| 2,4-Dimethylphenol | 0.3861 | 0.3454<br>0.3957 | 0.3544<br>0.3958 | 0.3645<br>0.4035 | 0.3699 | Ave | | 0.3769 | | | | 5.7 | | 15.0 | | | |
| 2-Nitrophenol | 0.2117 | 0.1748<br>0.2225 | 0.1731<br>0.2222 | 0.1796<br>0.2234 | 0.1963 | Ave | | 0.2005 | | | | 11.0 | | 15.0 | | | |
| 1,3,5-Trichlorobenzene | 0.3539 | 0.3312<br>0.3719 | 0.3297<br>0.3735 | 0.3218<br>0.3741 | 0.3368 | Ave | | 0.3491 | | | | 6.3 | | 15.0 | | | |
| Bis(2-chloroethoxy)methane | 0.4502 | 0.4186<br>0.4735 | 0.4171<br>0.4606 | 0.4178<br>0.4734 | 0.4315 | Ave | | 0.4428 | | | | 5.6 | | 15.0 | | | |
| 2,4-Dichlorophenol | 0.2858 | 0.2331<br>0.2968 | 0.2574<br>0.2921 | 0.2547<br>0.3003 | 0.2738 | Ave | | 0.2743 | | | | 8.7 | | 15.0 | | | |
| 1,2,4-Trichlorobenzene | 0.3517 | 0.3190<br>0.3666 | 0.3301<br>0.3610 | 0.3267<br>0.3654 | 0.3371 | Ave | | 0.3447 | | | | 5.5 | | 15.0 | | | |
| Naphthalene | 1.1326<br>1.0242 | 0.9920<br>1.0644 | 1.0052<br>1.0515 | 0.9603<br>1.0712 | 0.9943 | Ave | | 1.0329 | | | | 5.1 | | 15.0 | | | |
| 4-Chloroaniline | 0.4617 | 0.3761<br>0.4988 | 0.4108<br>0.4582 | 0.4103<br>0.4666 | 0.4367 | Ave | | 0.4399 | | | | 8.9 | | 15.0 | | | |
| Hexachlorobutadiene | 0.1857 | 0.1698<br>0.1958 | 0.1665<br>0.1971 | 0.1658<br>0.1967 | 0.1754 | Ave | | 0.1816 | | | | 7.6 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13070-1 Analy Batch No.: 49822

SDG No.:

Instrument ID: A4AG2 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/04/2012 08:12 Calibration End Date: 07/04/2012 10:27 Calibration ID: 9863

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 1,2,3-Trichlorobenzene | 0.3285 | 0.3070<br>0.3407 | 0.3132<br>0.3408 | 0.3051<br>0.3468 | 0.3138 | Ave | | 0.3245 | | | | 5.2 | | 15.0 | | | |
| Caprolactam | 0.1176 | 0.0876<br>0.1232 | 0.0964<br>0.1192 | 0.1041<br>0.1240 | 0.1173 | Ave | | 0.1112 | | | | 12.0 | | 15.0 | | | |
| 4-Chloro-3-methylphenol | 0.3184 | 0.2745<br>0.3283 | 0.2904<br>0.3279 | 0.2957<br>0.3415 | 0.3137 | Ave | | 0.3113 | | | | 7.3 | | 15.0 | | | |
| 2-Methylnaphthalene | 0.6819<br>0.7000 | 0.6680<br>0.7293 | 0.6524<br>0.7114 | 0.6435<br>0.7312 | 0.6778 | Ave | | 0.6884 | | | | 4.6 | | 15.0 | | | |
| 2,4-Dinitrophenol | 0.2017 | +++++<br>0.2297 | 0.0759<br>0.2347 | 0.1327<br>0.2509 | 0.1661 | Qua | -0.304 | 0.1968 | 0.0012 | | 0.0500 | | | | 0.9990 | | 0.9900 |
| 1-Methylnaphthalene | 0.7030<br>0.6731 | 0.6224<br>0.6956 | 0.6359<br>0.6939 | 0.6196<br>0.7054 | 0.6375 | Ave | | 0.6652 | | | | 5.4 | | 15.0 | | | |
| 4-Nitrophenol | 0.1972 | +++++<br>0.2066 | 0.1439<br>0.2055 | 0.1756<br>0.2177 | 0.1927 | Ave | | 0.1913 | | | 0.0500 | 13.0 | | 15.0 | | | |
| 1,2,3,5-Tetrachlorobenzene | 0.5894 | 0.5154<br>0.6224 | 0.5229<br>0.6372 | 0.5124<br>0.6486 | 0.5342 | Ave | | 0.5728 | | | | 10.0 | | 15.0 | | | |
| Hexachlorocyclopentadiene | 0.4054 | 0.2348<br>0.4326 | 0.2249<br>0.4468 | 0.3029<br>0.4302 | 0.3505 | Qua | -0.252 | 0.4407 | 0.0003 | | 0.0500 | | | | 0.9980 | | 0.9900 |
| 2,4,6-Trichlorophenol | 0.3481 | 0.2860<br>0.3656 | 0.3068<br>0.3657 | 0.3149<br>0.3766 | 0.3287 | Ave | | 0.3365 | | | | 9.7 | | 15.0 | | | |
| 2,4,5-Trichlorophenol | 0.3705 | 0.3242<br>0.3934 | 0.3301<br>0.3879 | 0.3447<br>0.4076 | 0.3525 | Ave | | 0.3639 | | | | 8.4 | | 15.0 | | | |
| 1,2,3,4 -Tetrachlorobenzene | 0.5688 | 0.4807<br>0.6044 | 0.5043<br>0.6147 | 0.4970<br>0.6260 | 0.5131 | Ave | | 0.5511 | | | | 11.0 | | 15.0 | | | |
| 1,1'-Biphenyl | 1.6052<br>1.5289 | 1.3690<br>1.5677 | 1.3880<br>1.5903 | 1.3711<br>1.6252 | 1.4119 | Ave | | 1.4953 | | | | 7.3 | | 15.0 | | | |
| 2-Chloronaphthalene | 1.3892<br>1.2823 | 1.1892<br>1.3119 | 1.1927<br>1.3368 | 1.1879<br>1.3640 | 1.1929 | Ave | | 1.2719 | | | | 6.5 | | 15.0 | | | |
| 2-Nitroaniline | 0.3805 | 0.3156<br>0.3890 | 0.3426<br>0.3808 | 0.3551<br>0.4016 | 0.3583 | Ave | | 0.3654 | | | | 7.7 | | 15.0 | | | |
| Dimethyl phthalate | 1.2716 | 1.1629<br>1.3149 | 1.2085<br>1.2973 | 1.2115<br>1.3533 | 1.2151 | Ave | | 1.2544 | | | | 5.2 | | 15.0 | | | |
| 2,6-Dinitrotoluene | 0.3313 | 0.2595<br>0.3473 | 0.2913<br>0.3488 | 0.2948<br>0.3626 | 0.3139 | Ave | | 0.3187 | | | | 11.0 | | 15.0 | | | |
| 1,2-Dinitrobenzene | 0.1653 | 0.1106<br>0.1726 | 0.1434<br>0.1725 | 0.1448<br>0.1743 | 0.1556 | Ave | | 0.1549 | | | | 14.0 | | 15.0 | | | |
| Acenaphthylene | 1.8888<br>1.8895 | 1.7546<br>1.9627 | 1.7689<br>1.9562 | 1.7624<br>2.0105 | 1.7912 | Ave | | 1.8650 | | | | 5.3 | | 15.0 | | | |
| 3-Nitroaniline | 0.3553 | 0.2817<br>0.3726 | 0.3226<br>0.3647 | 0.3239<br>0.3799 | 0.3395 | Ave | | 0.3425 | | | | 9.5 | | 15.0 | | | |

Note: The ml coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-13070-1  Analy Batch No.: 49822

SDG No.:

Instrument ID: A4AG2  GC Column: RXI-5SILMS  ID: 0.45(mm)  Heated Purge: (Y/N) N

Calibration Start Date: 07/04/2012 08:12  Calibration End Date: 07/04/2012 10:27  Calibration ID: 9863

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Acenaphthene | 1.2962<br>1.1980 | 1.0795<br>1.2189 | 1.1041<br>1.2310 | 1.0846<br>1.2692 | 1.1174 | Ave | | 1.1777 | | | | 7.0 | | 15.0 | | | |
| 2,4-Dinitrotoluene | 0.4418 | 0.3273<br>0.4629 | 0.3925<br>0.4647 | 0.4077<br>0.4786 | 0.4228 | Ave | | 0.4248 | | | | 12.0 | | 15.0 | | | |
| Dibenzofuran | 1.6813<br>1.5749 | 1.4778<br>1.6262 | 1.5124<br>1.6369 | 1.4798<br>1.6920 | 1.4876 | Ave | | 1.5743 | | | | 5.6 | | 15.0 | | | |
| 2,3,5,6-Tetrachlorophenol | 0.2952 | 0.2159<br>0.3126 | 0.2468<br>0.3214 | 0.2631<br>0.3322 | 0.2786 | Ave | | 0.2832 | | | | 14.0 | | 15.0 | | | |
| Diethyl phthalate | 1.2926 | 1.2175<br>1.3550 | 1.2564<br>1.3432 | 1.2565<br>1.4087 | 1.2664 | Ave | | 1.2995 | | | | 4.9 | | 15.0 | | | |
| 4-Chlorophenyl phenyl ether | 0.6767 | 0.6017<br>0.7239 | 0.6309<br>0.7351 | 0.6200<br>0.7563 | 0.6332 | Ave | | 0.6722 | | | | 8.8 | | 15.0 | | | |
| 4-Nitroaniline | 0.3787 | 0.2859<br>0.4136 | 0.3300<br>0.4159 | 0.3451<br>0.4363 | 0.3636 | Ave | | 0.3711 | | | | 14.0 | | 15.0 | | | |
| Fluorene | 1.3488<br>1.3604 | 1.2211<br>1.4218 | 1.2757<br>1.4198 | 1.2436<br>1.4772 | 1.2810 | Ave | | 1.3388 | | | | 6.6 | | 15.0 | | | |
| 4,6-Dinitro-2-methylphenol | 0.1472 | 0.0496<br>0.1622 | 0.0922<br>0.1641 | 0.1111<br>0.1686 | 0.1330 | Qua | -0.072 | 0.1494 | 0.0009 | | | | | | 1.0000 | | 0.9900 |
| N-Nitrosodiphenylamine | 0.6298 | 0.5581<br>0.6561 | 0.5754<br>0.6588 | 0.5729<br>0.6593 | 0.5827 | Ave | | 0.6116 | | | | 7.1 | | 15.0 | | | |
| 1,2-Diphenylhydrazine | 0.8862 | 0.8037<br>0.8975 | 0.8432<br>0.9079 | 0.8192<br>0.9230 | 0.8333 | Ave | | 0.8642 | | | | 5.2 | | 15.0 | | | |
| Azobenzene | 0.8862 | 0.8037<br>0.8975 | 0.8432<br>0.9079 | 0.8192<br>0.9230 | 0.8333 | Ave | | 0.8642 | | | | 5.2 | | 15.0 | | | |
| 4-Bromophenyl phenyl ether | 0.2377 | 0.2034<br>0.2569 | 0.2085<br>0.2678 | 0.2102<br>0.2682 | 0.2177 | Ave | | 0.2338 | | | | 12.0 | | 15.0 | | | |
| Hexachlorobenzene | 0.2052<br>0.2209 | 0.1988<br>0.2413 | 0.1908<br>0.2464 | 0.1942<br>0.2533 | 0.1991 | Ave | | 0.2167 | | | | 11.0 | | 15.0 | | | |
| Atrazine | 0.1904 | 0.1732<br>0.2014 | 0.1822<br>0.1992 | 0.1802<br>0.1942 | 0.1836 | Ave | | 0.1881 | | | | 5.2 | | 15.0 | | | |
| Pentachlorophenol | 0.1635 | 0.0739<br>0.1793 | 0.1122<br>0.1874 | 0.1292<br>0.1942 | 0.1401 | Qua | -0.124 | 0.1553 | 0.0008 | | | | | | 1.0000 | | 0.9900 |
| Phenanthrene | 1.2654<br>1.1674 | 1.0940<br>1.2101 | 1.0932<br>1.2438 | 1.0879<br>1.2460 | 1.0906 | Ave | | 1.1665 | | | | 6.5 | | 15.0 | | | |
| Anthracene | 1.2591<br>1.2079 | 1.0731<br>1.2671 | 1.1262<br>1.2981 | 1.1144<br>1.3105 | 1.1372 | Ave | | 1.1993 | | | | 7.4 | | 15.0 | | | |
| Carbazole | 1.1307 | 1.0125<br>1.1848 | 1.0591<br>1.1951 | 1.0538<br>1.2133 | 1.0538 | Ave | | 1.1129 | | | | 7.0 | | 15.0 | | | |
| Di-n-butyl phthalate | 1.4263 | 1.2690<br>1.4948 | 1.3043<br>1.5162 | 1.3110<br>1.5463 | 1.3359 | Ave | | 1.4005 | | | | 7.8 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-13070-1  Analy Batch No.: 49822

SDG No.:

Instrument ID: A4AG2  GC Column: RXI-5SILMS  ID: 0.45(mm)  Heated Purge: (Y/N) N

Calibration Start Date: 07/04/2012 08:12  Calibration End Date: 07/04/2012 10:27  Calibration ID: 9863

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Fluoranthene | 1.2356<br>1.2232 | 1.0762<br>1.2754 | 1.0866<br>1.2818 | 1.1017<br>1.3180 | 1.1194 | Ave | | 1.1909 | | | | 8.0 | | 15.0 | | | |
| Benzidine | <br>0.8286 | 0.5833<br>0.8230 | 0.6409<br>0.7973 | 0.7404<br>0.8437 | 0.7602 | Ave | | 0.7522 | | | | 13.0 | | 15.0 | | | |
| Pyrene | 1.6903<br>1.3989 | 1.3507<br>1.4508 | 1.3691<br>1.4423 | 1.3527<br>1.4662 | 1.3170 | Ave | | 1.4264 | | | | 7.8 | | 15.0 | | | |
| Butyl benzyl phthalate | <br>0.7057 | 0.6705<br>0.7227 | 0.6902<br>0.7217 | 0.6867<br>0.7384 | 0.6770 | Ave | | 0.7016 | | | | 3.5 | | 15.0 | | | |
| 3,3'-Dimethoxybenzidine | <br>0.3890 | 0.2563<br>0.3977 | 0.2870<br>0.4104 | 0.3356<br>0.4023 | 0.3621 | Qua | -0.129 | 0.4023 | 0.0003 | | | | | | 1.0000 | | 0.9900 |
| Bis(2-ethylhexyl) phthalate | <br>1.0176 | 0.9271<br>1.0312 | 0.9728<br>1.0390 | 0.9636<br>1.0698 | 0.9779 | Ave | | 0.9999 | | | | 4.7 | | 15.0 | | | |
| 4,4'-Methylene bis(2-chloroaniline) | <br>0.2795 | 0.2054<br>0.3025 | 0.2376<br>0.3050 | 0.2417<br>0.3117 | 0.2495 | Ave | | 0.2666 | | | | 15.0 | | 15.0 | | | |
| 3,3'-Dichlorobenzidine | <br>0.5573 | 0.4361<br>0.5901 | 0.4702<br>0.5949 | 0.4813<br>0.6149 | 0.4972 | Ave | | 0.5303 | | | | 13.0 | | 15.0 | | | |
| Benzo[a]anthracene | 1.5327<br>1.3104 | 1.2570<br>1.3505 | 1.2546<br>1.3573 | 1.2220<br>1.3807 | 1.2355 | Ave | | 1.3223 | | | | 7.4 | | 15.0 | | | |
| Chrysene | 1.3472<br>1.2061 | 1.0860<br>1.2486 | 1.1321<br>1.2088 | 1.1480<br>1.2721 | 1.1386 | Ave | | 1.1986 | | | | 6.8 | | 15.0 | | | |
| Di-n-octyl phthalate | <br>2.1547 | 1.7757<br>2.2193 | 1.8995<br>2.2295 | 1.8978<br>2.3222 | 1.9567 | Ave | | 2.0569 | | | | 9.6 | | 15.0 | | | |
| Benzo[b]fluoranthene | 1.6488<br>1.5446 | 1.4204<br>1.6370 | 1.4192<br>1.7858 | 1.4809<br>1.7633 | 1.4371 | Ave | | 1.5708 | | | | 9.2 | | 15.0 | | | |
| Benzo[k]fluoranthene | 1.7182<br>1.7230 | 1.4558<br>1.7152 | 1.6113<br>1.6693 | 1.4325<br>1.7187 | 1.5193 | Ave | | 1.6181 | | | | 7.4 | | 15.0 | | | |
| Benzo[a]pyrene | 1.5493<br>1.5094 | 1.2915<br>1.5543 | 1.3362<br>1.5785 | 1.3318<br>1.6193 | 1.3730 | Ave | | 1.4604 | | | | 8.6 | | 15.0 | | | |
| Indeno[1,2,3-cd]pyrene | 1.4454<br>1.7101 | 1.4143<br>1.7457 | 1.4823<br>1.7878 | 1.4713<br>1.8533 | 1.5257 | Ave | | 1.6040 | | | | 11.0 | | 15.0 | | | |
| Dibenz(a,h)anthracene | 1.2347<br>1.4448 | 1.1420<br>1.5226 | 1.2557<br>1.5404 | 1.2320<br>1.6111 | 1.3044 | Ave | | 1.3653 | | | | 12.0 | | 15.0 | | | |
| Benzo[g,h,i]perylene | 1.2994<br>1.3984 | 1.1718<br>1.4127 | 1.2550<br>1.4289 | 1.2426<br>1.4926 | 1.2574 | Ave | | 1.3288 | | | | 8.1 | | 15.0 | | | |
| 2-Fluorophenol (Surr) | <br>1.3305 | 1.1701<br>1.3530 | 1.1643<br>1.3076 | 1.2509<br>1.3439 | 1.2366 | Ave | | 1.2696 | | | | 6.0 | | 15.0 | | | |
| Phenol-d5 (Surr) | <br>1.6686 | 1.5122<br>1.7032 | 1.5579<br>1.6930 | 1.5673<br>1.7111 | 1.6264 | Ave | | 1.6300 | | | | 4.7 | | 15.0 | | | |
| Nitrobenzene-d5 (Surr) | 0.4620<br>0.4405 | 0.4116<br>0.4447 | 0.4201<br>0.4426 | 0.3899<br>0.4541 | 0.4180 | Ave | | 0.4315 | | | | 5.3 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-13070-1  Analy Batch No.: 49822

SDG No.:

Instrument ID: A4AG2  GC Column: RXI-5SILMS  ID: 0.45(mm)  Heated Purge: (Y/N) N

Calibration Start Date: 07/04/2012 08:12  Calibration End Date: 07/04/2012 10:27  Calibration ID: 9863

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 2-Fluorobiphenyl (Surr) | 1.5882<br>1.4724 | 1.3849<br>1.5484 | 1.4135<br>1.5366 | 1.3913<br>1.5786 | 1.3873 | Ave | | 1.4779 | | | | 5.8 | | 15.0 | | | |
| 2,4,6-Tribromophenol (Surr) | <br>0.1556 | 0.1061<br>0.1715 | 0.1256<br>0.1761 | 0.1305<br>0.1830 | 0.1454 | Qua | -0.036 | 0.1489 | 0.0014 | | | | | | 1.0000 | | 0.9900 |
| Terphenyl-d14 (Surr) | 0.9966<br>0.8982 | 0.8357<br>0.9439 | 0.8497<br>0.9520 | 0.8429<br>0.9868 | 0.8303 | Ave | | 0.9040 | | | | 7.4 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab Sample ID: ICV 240-49822/11 Calibration Date: 07/04/2012 10:44

Instrument ID: A4AG2 Calib Start Date: 07/04/2012 08:12

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 07/04/2012 10:27

Lab File ID: 0704011.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | Ave | 0.4910 | 0.4505 | | 9.18 | 10.0 | -8.2 | 50.0 |
| N-Nitrosodimethylamine | Ave | 0.8168 | 0.8228 | | 10.1 | 10.0 | 0.7 | 50.0 |
| Pyridine | Ave | 1.361 | 1.398 | | 10.3 | 10.0 | 2.8 | 50.0 |
| Ethyl methacrylate | Ave | 1.149 | 1.126 | | 9.80 | 10.0 | -2.0 | 50.0 |
| 3-Chloropropionitrile | Ave | 1.011 | 0.9906 | | 9.80 | 10.0 | -2.0 | 50.0 |
| Malononitrile | Ave | 1.605 | 1.717 | | 10.7 | 10.0 | 7.0 | 50.0 |
| Benzaldehyde | Ave | 1.269 | 1.115 | | 8.79 | 10.0 | -12.1 | 50.0 |
| Phenol | Ave | 1.742 | 1.796 | | 10.3 | 10.0 | 3.1 | 20.0 |
| Aniline | Ave | 2.180 | 2.216 | | 10.2 | 10.0 | 1.6 | 50.0 |
| Bis(2-chloroethyl)ether | Ave | 1.566 | 1.585 | | 10.1 | 10.0 | 1.2 | 50.0 |
| 2-Chlorophenol | Ave | 1.424 | 1.445 | | 10.1 | 10.0 | 1.5 | 50.0 |
| 1,3-Dichlorobenzene | Ave | 1.730 | 1.740 | | 10.1 | 10.0 | 0.6 | 50.0 |
| 1,4-Dichlorobenzene | Ave | 1.631 | 1.631 | | 10.0 | 10.0 | 0.0 | 20.0 |
| Benzyl alcohol | Ave | 0.9479 | 0.9782 | | 10.3 | 10.0 | 3.2 | 50.0 |
| 1,2-Dichlorobenzene | Ave | 1.688 | 1.731 | | 10.3 | 10.0 | 2.6 | 50.0 |
| 2-Methylphenol | Ave | 1.382 | 1.441 | | 10.4 | 10.0 | 4.3 | 50.0 |
| 3 & 4 Methylphenol | Ave | 1.418 | 1.460 | | 10.3 | 10.0 | 2.9 | 50.0 |
| N-Nitrosodi-n-propylamine | Ave | 1.075 | 1.105 | 0.0500 | 10.3 | 10.0 | 2.8 | 50.0 |
| Acetophenone | Ave | 1.966 | 2.026 | | 10.3 | 10.0 | 3.1 | 50.0 |
| Hexachloroethane | Ave | 0.6063 | 0.6139 | | 10.1 | 10.0 | 1.2 | 50.0 |
| Nitrobenzene | Ave | 0.4332 | 0.4406 | | 10.2 | 10.0 | 1.7 | 50.0 |
| Isophorone | Ave | 0.6751 | 0.6929 | | 10.3 | 10.0 | 2.6 | 50.0 |
| 2,4-Dimethylphenol | Ave | 0.3769 | 0.3912 | | 10.4 | 10.0 | 3.8 | 50.0 |
| 2-Nitrophenol | Ave | 0.2005 | 0.2112 | | 10.5 | 10.0 | 5.3 | 20.0 |
| 1,3,5-Trichlorobenzene | Ave | 0.3491 | 0.3553 | | 10.2 | 10.0 | 1.8 | 50.0 |
| Benzoic acid | Qua | | 0.2244 | | 19.5 | 20.0 | -2.5 | 50.0 |
| Bis(2-chloroethoxy)methane | Ave | 0.4428 | 0.4617 | | 10.4 | 10.0 | 4.3 | 50.0 |
| 2,4-Dichlorophenol | Ave | 0.2743 | 0.2834 | | 10.3 | 10.0 | 3.3 | 20.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.3447 | 0.3496 | | 10.1 | 10.0 | 1.4 | 50.0 |
| Naphthalene | Ave | 1.033 | 1.030 | | 9.97 | 10.0 | -0.3 | 50.0 |
| 4-Chloroaniline | Ave | 0.4399 | 0.4596 | | 10.4 | 10.0 | 4.5 | 50.0 |
| Hexachlorobutadiene | Ave | 0.1816 | 0.1818 | | 10.0 | 10.0 | 0.0 | 20.0 |
| 1,2,3-Trichlorobenzene | Ave | 0.3245 | 0.3253 | | 10.0 | 10.0 | 0.3 | 50.0 |
| Caprolactam | Ave | 0.1112 | 0.1226 | | 11.0 | 10.0 | 10.3 | 50.0 |
| 4-Chloro-3-methylphenol | Ave | 0.3113 | 0.3286 | | 10.6 | 10.0 | 5.6 | 20.0 |
| 2-Methylnaphthalene | Ave | 0.6884 | 0.6960 | | 10.1 | 10.0 | 1.1 | 50.0 |
| 1-Methylnaphthalene | Ave | 0.6652 | 0.6744 | | 10.1 | 10.0 | 1.4 | 50.0 |
| Hexachlorocyclopentadiene | Qua | | 0.3833 | 0.0500 | 9.22 | 10.0 | -7.8 | 50.0 |
| 1,2,3,5-Tetrachlorobenzene | Ave | 0.5728 | 0.5823 | | 10.2 | 10.0 | 1.7 | 50.0 |
| 2,4,6-Trichlorophenol | Ave | 0.3365 | 0.3505 | | 10.4 | 10.0 | 4.2 | 20.0 |
| 2,4,5-Trichlorophenol | Ave | 0.3639 | 0.3767 | | 10.4 | 10.0 | 3.5 | 50.0 |

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: ICV 240-49822/11  Calibration Date: 07/04/2012 10:44

Instrument ID: A4AG2  Calib Start Date: 07/04/2012 08:12

GC Column: RXI-5SILMS  ID: 0.45(mm)  Calib End Date: 07/04/2012 10:27

Lab File ID: 0704011.D  Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 1,1'-Biphenyl | Ave | 1.495 | 1.517 | | 10.1 | 10.0 | 1.5 | 50.0 |
| 2-Chloronaphthalene | Ave | 1.272 | 1.271 | | 10.0 | 10.0 | -0.0 | 50.0 |
| 2-Nitroaniline | Ave | 0.3654 | 0.3800 | | 10.4 | 10.0 | 4.0 | 50.0 |
| Dimethyl phthalate | Ave | 1.254 | 1.294 | | 10.3 | 10.0 | 3.1 | 50.0 |
| 1,2-Dinitrobenzene | Ave | 0.1549 | 0.1683 | | 10.9 | 10.0 | 8.6 | 50.0 |
| Acenaphthylene | Ave | 1.865 | 1.927 | | 10.3 | 10.0 | 3.3 | 50.0 |
| 3-Nitroaniline | Ave | 0.3425 | 0.3636 | | 10.6 | 10.0 | 6.1 | 50.0 |
| 2,4-Dinitrophenol | Qua | | 0.1912 | 0.0500 | 18.8 | 20.0 | -6.0 | 50.0 |
| Acenaphthene | Ave | 1.178 | 1.189 | | 10.1 | 10.0 | 0.9 | 20.0 |
| 4-Nitrophenol | Ave | 0.1913 | 0.2016 | 0.0500 | 10.5 | 10.0 | 5.4 | 50.0 |
| 2,4-Dinitrotoluene | Ave | 0.4248 | 0.4551 | | 10.7 | 10.0 | 7.1 | 50.0 |
| Dibenzofuran | Ave | 1.574 | 1.595 | | 10.1 | 10.0 | 1.3 | 50.0 |
| 2,3,5,6-Tetrachlorophenol | Ave | 0.2832 | 0.2976 | | 10.5 | 10.0 | 5.1 | 50.0 |
| Diethyl phthalate | Ave | 1.300 | 1.331 | | 10.2 | 10.0 | 2.4 | 50.0 |
| 4-Chlorophenyl phenyl ether | Ave | 0.6722 | 0.6891 | | 10.3 | 10.0 | 2.5 | 50.0 |
| 4-Nitroaniline | Ave | 0.3711 | 0.3917 | | 10.6 | 10.0 | 5.5 | 50.0 |
| Fluorene | Ave | 1.339 | 1.358 | | 10.1 | 10.0 | 1.4 | 50.0 |
| 4,6-Dinitro-2-methylphenol | Qua | | 0.1465 | | 9.71 | 10.0 | -2.9 | 50.0 |
| N-Nitrosodiphenylamine | Ave | 0.6116 | 0.6379 | | 10.4 | 10.0 | 4.3 | 20.0 |
| 1,2-Diphenylhydrazine | Ave | 0.8642 | 0.9199 | | 10.6 | 10.0 | 6.4 | 50.0 |
| 4-Bromophenyl phenyl ether | Ave | 0.2338 | 0.2394 | | 10.2 | 10.0 | 2.4 | 50.0 |
| Hexachlorobenzene | Ave | 0.2167 | 0.2233 | | 10.3 | 10.0 | 3.0 | 50.0 |
| Atrazine | Ave | 0.1881 | 0.1966 | | 10.5 | 10.0 | 4.6 | 50.0 |
| Pentachlorophenol | Qua | | 0.1630 | | 19.7 | 20.0 | -1.5 | 20.0 |
| Phenanthrene | Ave | 1.166 | 1.182 | | 10.1 | 10.0 | 1.3 | 50.0 |
| Anthracene | Ave | 1.199 | 1.246 | | 10.4 | 10.0 | 3.9 | 50.0 |
| Carbazole | Ave | 1.113 | 1.141 | | 10.3 | 10.0 | 2.6 | 50.0 |
| Di-n-butyl phthalate | Ave | 1.400 | 1.471 | | 10.5 | 10.0 | 5.0 | 50.0 |
| Fluoranthene | Ave | 1.191 | 1.233 | | 10.4 | 10.0 | 3.5 | 20.0 |
| Benzidine | Ave | 0.7522 | 0.8008 | | 10.6 | 10.0 | 6.5 | 50.0 |
| Pyrene | Ave | 1.426 | 1.414 | | 9.91 | 10.0 | -0.9 | 50.0 |
| Butyl benzyl phthalate | Ave | 0.7016 | 0.7308 | | 10.4 | 10.0 | 4.2 | 50.0 |
| 3,3'-Dimethoxybenzidine | Qua | | 0.3837 | | 9.78 | 10.0 | -2.2 | 50.0 |
| Bis(2-ethylhexyl) phthalate | Ave | 1.000 | 1.038 | | 10.4 | 10.0 | 3.8 | 50.0 |
| 4,4'-Methylene bis(2-chloroaniline) | Ave | 0.2666 | 0.2771 | | 10.4 | 10.0 | 3.9 | 50.0 |
| 3,3'-Dichlorobenzidine | Ave | 0.5303 | 0.5450 | | 10.3 | 10.0 | 2.8 | 50.0 |
| Benzo[a]anthracene | Ave | 1.322 | 1.300 | | 9.83 | 10.0 | -1.7 | 50.0 |
| Chrysene | Ave | 1.199 | 1.208 | | 10.1 | 10.0 | 0.8 | 50.0 |
| Di-n-octyl phthalate | Ave | 2.057 | 2.168 | | 10.5 | 10.0 | 5.4 | 20.0 |
| Benzo[b]fluoranthene | Ave | 1.571 | 1.547 | | 9.85 | 10.0 | -1.5 | 50.0 |

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: ICV 240-49822/11  Calibration Date: 07/04/2012 10:44

Instrument ID: A4AG2  Calib Start Date: 07/04/2012 08:12

GC Column: RXI-5SILMS  ID: 0.45(mm)  Calib End Date: 07/04/2012 10:27

Lab File ID: 0704011.D  Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Benzo[k]fluoranthene | Ave | 1.618 | 1.681 | | 10.4 | 10.0 | 3.9 | 50.0 |
| Benzo[a]pyrene | Ave | 1.460 | 1.506 | | 10.3 | 10.0 | 3.1 | 20.0 |
| Indeno[1,2,3-cd]pyrene | Ave | 1.604 | 1.689 | | 10.5 | 10.0 | 5.3 | 50.0 |
| Dibenz(a,h)anthracene | Ave | 1.365 | 1.441 | | 10.6 | 10.0 | 5.6 | 50.0 |
| Benzo[g,h,i]perylene | Ave | 1.329 | 1.379 | | 10.4 | 10.0 | 3.8 | 50.0 |
| 2-Fluorophenol (Surr) | Ave | 1.270 | 1.271 | | 10.0 | 10.0 | 0.1 | 50.0 |
| Phenol-d5 (Surr) | Ave | 1.630 | 1.669 | | 10.2 | 10.0 | 2.4 | 50.0 |
| Nitrobenzene-d5 (Surr) | Ave | 0.4315 | 0.4266 | | 9.89 | 10.0 | -1.1 | 50.0 |
| 2-Fluorobiphenyl (Surr) | Ave | 1.478 | 1.497 | | 10.1 | 10.0 | 1.3 | 50.0 |
| 2,4,6-Tribromophenol (Surr) | Qua | | 0.1543 | | 9.69 | 10.0 | -3.1 | 50.0 |
| Terphenyl-d14 (Surr) | Ave | 0.9040 | 0.9153 | | 10.1 | 10.0 | 1.2 | 50.0 |

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab File ID: 0716001.D DFTPP Injection Date: 07/16/2012

Instrument ID: A4AG2 DFTPP Injection Time: 07:39

Analysis Batch No.: 50843

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 51 | 30.0- 80.0% of mass 198 | 45.5 | |
| 68 | Less than 2.0% of mass 69 | 0.0 | (0.0)1 |
| 69 | Mass 69 relative abundance | 46.0 | |
| 70 | Less than 2.0% of mass 69 | 0.3 | (0.6)1 |
| 127 | 25.0 - 75.0% of mass 198 | 55.8 | |
| 197 | Less than 1.0% of mass 198 | 0.0 | |
| 198 | Base Peak, 100% relative abundance | 100.0 | |
| 199 | 5.0 to 9.0% of mass 198 | 6.6 | |
| 275 | 10.0- 30.0% of mass 198 | 26.0 | |
| 365 | Greater than 0.75% of mass 198 | 3.5 | |
| 441 | Present, but less than mass 443 | 11.7 | |
| 442 | 40.0 - 110.0% of mass 198 | 77.3 | |
| 443 | 15.0 - 24.0% of mass 442 | 14.7 | (19.0)2 |

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | CCV 240-50843/2 | 0716002.D | 07/16/2012 | 07:55 |
| | MB 240-50724/8-A | 0716006.D | 07/16/2012 | 09:02 |
| | LCS 240-50724/9-A | 0716007.D | 07/16/2012 | 09:19 |
| | 240-13082-H-1-F MS | 0716013.D | 07/16/2012 | 11:00 |
| MT-TCLP-8-10 | 240-13070-4 | 0716014.D | 07/16/2012 | 11:16 |

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCV 240-50843/2  Calibration Date: 07/16/2012 07:55

Instrument ID: A4AG2  Calib Start Date: 07/04/2012 08:12

GC Column: RXI-5SILMS  ID: 0.45(mm)  Calib End Date: 07/04/2012 10:27

Lab File ID: 0716002.D  Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | Ave | 0.4910 | 0.4193 | | 8.54 | 10.0 | -14.6 | 50.0 |
| N-Nitrosodimethylamine | Ave | 0.8168 | 0.7583 | | 9.28 | 10.0 | -7.2 | 50.0 |
| Pyridine | Ave | 1.361 | 1.257 | | 9.24 | 10.0 | -7.6 | 50.0 |
| Ethyl methacrylate | Ave | 1.149 | 1.073 | | 9.34 | 10.0 | -6.6 | 50.0 |
| 3-Chloropropionitrile | Ave | 1.011 | 0.9550 | | 9.45 | 10.0 | -5.5 | 50.0 |
| Malononitrile | Ave | 1.605 | 1.625 | | 10.1 | 10.0 | 1.2 | 50.0 |
| Benzaldehyde | Ave | 1.269 | 1.118 | | 8.82 | 10.0 | -11.8 | 50.0 |
| Phenol | Ave | 1.742 | 1.772 | | 10.2 | 10.0 | 1.8 | 20.0 |
| Aniline | Ave | 2.180 | 2.267 | | 10.4 | 10.0 | 4.0 | 50.0 |
| Bis(2-chloroethyl)ether | Ave | 1.566 | 1.605 | | 10.2 | 10.0 | 2.5 | 50.0 |
| 2-Chlorophenol | Ave | 1.424 | 1.444 | | 10.1 | 10.0 | 1.4 | 50.0 |
| 1,3-Dichlorobenzene | Ave | 1.730 | 1.753 | | 10.1 | 10.0 | 1.3 | 50.0 |
| 1,4-Dichlorobenzene | Ave | 1.631 | 1.638 | | 10.0 | 10.0 | 0.4 | 50.0 |
| Benzyl alcohol | Ave | 0.9479 | 0.8343 | | 8.80 | 10.0 | -12.0 | 50.0 |
| 1,2-Dichlorobenzene | Ave | 1.688 | 1.732 | | 10.3 | 10.0 | 2.6 | 50.0 |
| 2-Methylphenol | Ave | 1.382 | 1.439 | | 10.4 | 10.0 | 4.1 | 50.0 |
| 3 & 4 Methylphenol | Ave | 1.418 | 1.430 | | 10.1 | 10.0 | 0.9 | 50.0 |
| N-Nitrosodi-n-propylamine | Ave | 1.075 | 1.148 | 0.0500 | 10.7 | 10.0 | 6.9 | 50.0 |
| Acetophenone | Ave | 1.966 | 2.102 | | 10.7 | 10.0 | 6.9 | 50.0 |
| Hexachloroethane | Ave | 0.6063 | 0.6408 | | 10.6 | 10.0 | 5.7 | 50.0 |
| Nitrobenzene | Ave | 0.4332 | 0.4483 | | 10.3 | 10.0 | 3.5 | 50.0 |
| Isophorone | Ave | 0.6751 | 0.7029 | | 10.4 | 10.0 | 4.1 | 50.0 |
| 2,4-Dimethylphenol | Ave | 0.3769 | 0.3987 | | 10.6 | 10.0 | 5.8 | 50.0 |
| 2-Nitrophenol | Ave | 0.2005 | 0.2110 | | 10.5 | 10.0 | 5.2 | 20.0 |
| 1,3,5-Trichlorobenzene | Ave | 0.3491 | 0.3538 | | 10.1 | 10.0 | 1.3 | 50.0 |
| Benzoic acid | Qua | | 0.2078 | | 18.2 | 20.0 | -9.0 | 50.0 |
| Bis(2-chloroethoxy)methane | Ave | 0.4428 | 0.4522 | | 10.2 | 10.0 | 2.1 | 50.0 |
| 2,4-Dichlorophenol | Ave | 0.2743 | 0.2710 | | 9.88 | 10.0 | -1.2 | 20.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.3447 | 0.3513 | | 10.2 | 10.0 | 1.9 | 50.0 |
| Naphthalene | Ave | 1.033 | 1.033 | | 10.0 | 10.0 | -0.0 | 50.0 |
| 4-Chloroaniline | Ave | 0.4399 | 0.4743 | | 10.8 | 10.0 | 7.8 | 50.0 |
| Hexachlorobutadiene | Ave | 0.1816 | 0.1844 | | 10.2 | 10.0 | 1.6 | 20.0 |
| 1,2,3-Trichlorobenzene | Ave | 0.3245 | 0.3251 | | 10.0 | 10.0 | 0.2 | 50.0 |
| Caprolactam | Ave | 0.1112 | 0.1201 | | 10.8 | 10.0 | 8.0 | 50.0 |
| 4-Chloro-3-methylphenol | Ave | 0.3113 | 0.3421 | | 11.0 | 10.0 | 9.9 | 20.0 |
| 2-Methylnaphthalene | Ave | 0.6884 | 0.7012 | | 10.2 | 10.0 | 1.9 | 50.0 |
| 1-Methylnaphthalene | Ave | 0.6652 | 0.6731 | | 10.1 | 10.0 | 1.2 | 50.0 |
| Hexachlorocyclopentadiene | Qua | | 0.2558 | 0.0500 | 6.35 | 10.0 | -36.5 | 50.0 |
| 1,2,3,5-Tetrachlorobenzene | Ave | 0.5728 | 0.5627 | | 9.82 | 10.0 | -1.8 | 50.0 |
| 2,4,6-Trichlorophenol | Ave | 0.3365 | 0.3284 | | 9.76 | 10.0 | -2.4 | 20.0 |
| 2,4,5-Trichlorophenol | Ave | 0.3639 | 0.3692 | | 10.1 | 10.0 | 1.5 | 50.0 |

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCV 240-50843/2  Calibration Date: 07/16/2012 07:55

Instrument ID: A4AG2  Calib Start Date: 07/04/2012 08:12

GC Column: RXI-5SILMS  ID: 0.45(mm)  Calib End Date: 07/04/2012 10:27

Lab File ID: 0716002.D  Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 1,1'-Biphenyl | Ave | 1.495 | 1.514 | | 10.1 | 10.0 | 1.3 | 50.0 |
| 2-Chloronaphthalene | Ave | 1.272 | 1.285 | | 10.1 | 10.0 | 1.0 | 50.0 |
| 2-Nitroaniline | Ave | 0.3654 | 0.3871 | | 10.6 | 10.0 | 5.9 | 50.0 |
| Dimethyl phthalate | Ave | 1.254 | 1.316 | | 10.5 | 10.0 | 4.9 | 50.0 |
| 1,2-Dinitrobenzene | Ave | 0.1549 | 0.1674 | | 10.8 | 10.0 | 8.1 | 50.0 |
| Acenaphthylene | Ave | 1.865 | 1.929 | | 10.3 | 10.0 | 3.4 | 50.0 |
| 3-Nitroaniline | Ave | 0.3425 | 0.3580 | | 10.5 | 10.0 | 4.5 | 50.0 |
| 2,4-Dinitrophenol | Qua | | 0.1679 | 0.0500 | 16.9 | 20.0 | -15.5 | 50.0 |
| Acenaphthene | Ave | 1.178 | 1.181 | | 10.0 | 10.0 | 0.3 | 20.0 |
| 4-Nitrophenol | Ave | 0.1913 | 0.2038 | 0.0500 | 10.7 | 10.0 | 6.6 | 50.0 |
| 2,4-Dinitrotoluene | Ave | 0.4248 | 0.4735 | | 11.1 | 10.0 | 11.5 | 50.0 |
| Dibenzofuran | Ave | 1.574 | 1.604 | | 10.2 | 10.0 | 1.9 | 50.0 |
| 2,3,5,6-Tetrachlorophenol | Ave | 0.2832 | 0.2764 | | 9.76 | 10.0 | -2.4 | 50.0 |
| Diethyl phthalate | Ave | 1.300 | 1.401 | | 10.8 | 10.0 | 7.8 | 50.0 |
| 4-Chlorophenyl phenyl ether | Ave | 0.6722 | 0.6856 | | 10.2 | 10.0 | 2.0 | 50.0 |
| 4-Nitroaniline | Ave | 0.3711 | 0.4017 | | 10.8 | 10.0 | 8.2 | 50.0 |
| Fluorene | Ave | 1.339 | 1.393 | | 10.4 | 10.0 | 4.0 | 50.0 |
| 4,6-Dinitro-2-methylphenol | Qua | | 0.1390 | | 9.26 | 10.0 | -7.4 | 50.0 |
| N-Nitrosodiphenylamine | Ave | 0.6116 | 0.6320 | | 10.3 | 10.0 | 3.3 | 20.0 |
| 1,2-Diphenylhydrazine | Ave | 0.8642 | 0.9031 | | 10.4 | 10.0 | 4.5 | 50.0 |
| 4-Bromophenyl phenyl ether | Ave | 0.2338 | 0.2394 | | 10.2 | 10.0 | 2.4 | 50.0 |
| Hexachlorobenzene | Ave | 0.2167 | 0.2140 | | 9.88 | 10.0 | -1.2 | 50.0 |
| Atrazine | Ave | 0.1881 | 0.1939 | | 10.3 | 10.0 | 3.1 | 50.0 |
| Pentachlorophenol | Qua | | 0.1293 | | 16.0 | 20.0 | -20.0 | 20.0 |
| Phenanthrene | Ave | 1.166 | 1.182 | | 10.1 | 10.0 | 1.3 | 50.0 |
| Anthracene | Ave | 1.199 | 1.229 | | 10.2 | 10.0 | 2.5 | 50.0 |
| Carbazole | Ave | 1.113 | 1.144 | | 10.3 | 10.0 | 2.8 | 50.0 |
| Di-n-butyl phthalate | Ave | 1.400 | 1.505 | | 10.7 | 10.0 | 7.4 | 50.0 |
| Fluoranthene | Ave | 1.191 | 1.234 | | 10.4 | 10.0 | 3.6 | 20.0 |
| Benzidine | Ave | 0.7522 | 0.8296 | | 11.0 | 10.0 | 10.3 | 50.0 |
| Pyrene | Ave | 1.426 | 1.530 | | 10.7 | 10.0 | 7.3 | 50.0 |
| Butyl benzyl phthalate | Ave | 0.7016 | 0.8093 | | 11.5 | 10.0 | 15.3 | 50.0 |
| 3,3'-Dimethoxybenzidine | Qua | | 0.3350 | | 8.58 | 10.0 | -14.2 | 50.0 |
| Bis(2-ethylhexyl) phthalate | Ave | 1.000 | 1.122 | | 11.2 | 10.0 | 12.2 | 50.0 |
| 3,3'-Dichlorobenzidine | Ave | 0.5303 | 0.5312 | | 10.0 | 10.0 | 0.2 | 50.0 |
| 4,4'-Methylene bis(2-chloroaniline) | Ave | 0.2666 | 0.2836 | | 10.6 | 10.0 | 6.3 | 50.0 |
| Benzo[a]anthracene | Ave | 1.322 | 1.336 | | 10.1 | 10.0 | 1.0 | 50.0 |
| Chrysene | Ave | 1.199 | 1.228 | | 10.2 | 10.0 | 2.5 | 50.0 |
| Di-n-octyl phthalate | Ave | 2.057 | 2.461 | | 12.0 | 10.0 | 19.6 | 20.0 |
| Benzo[b]fluoranthene | Ave | 1.571 | 1.560 | | 9.93 | 10.0 | -0.7 | 50.0 |

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCV 240-50843/2  Calibration Date: 07/16/2012 07:55

Instrument ID: A4AG2  Calib Start Date: 07/04/2012 08:12

GC Column: RXI-5SILMS  ID: 0.45(mm)  Calib End Date: 07/04/2012 10:27

Lab File ID: 0716002.D  Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Benzo[k]fluoranthene | Ave | 1.618 | 1.729 | | 10.7 | 10.0 | 6.8 | 50.0 |
| Benzo[a]pyrene | Ave | 1.460 | 1.532 | | 10.5 | 10.0 | 4.9 | 20.0 |
| Indeno[1,2,3-cd]pyrene | Ave | 1.604 | 1.714 | | 10.7 | 10.0 | 6.9 | 50.0 |
| Dibenz(a,h)anthracene | Ave | 1.365 | 1.439 | | 10.5 | 10.0 | 5.4 | 50.0 |
| Benzo[g,h,i]perylene | Ave | 1.329 | 1.398 | | 10.5 | 10.0 | 5.2 | 50.0 |
| 2-Fluorophenol (Surr) | Ave | 1.270 | 1.285 | | 10.1 | 10.0 | 1.2 | 50.0 |
| Phenol-d5 (Surr) | Ave | 1.630 | 1.707 | | 10.5 | 10.0 | 4.7 | 50.0 |
| Nitrobenzene-d5 (Surr) | Ave | 0.4315 | 0.4406 | | 10.2 | 10.0 | 2.1 | 50.0 |
| 2-Fluorobiphenyl (Surr) | Ave | 1.478 | 1.479 | | 10.0 | 10.0 | 0.0 | 50.0 |
| 2,4,6-Tribromophenol (Surr) | Qua | | 0.1471 | | 9.29 | 10.0 | -7.1 | 50.0 |
| Terphenyl-d14 (Surr) | Ave | 0.9040 | 0.9698 | | 10.7 | 10.0 | 7.3 | 50.0 |

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab File ID: 0716006.D Lab Sample ID: MB 240-50724/8-A

Matrix: Water Date Extracted: 07/13/2012 09:58

Instrument ID: A4AG2 Date Analyzed: 07/16/2012 09:02

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| | LCS 240-50724/9-A | 0716007.D | 07/16/2012 09:19 |
| | 240-13082-H-1-F MS | 0716013.D | 07/16/2012 11:00 |
| MT-TCLP-8-10 | 240-13070-4 | 0716014.D | 07/16/2012 11:16 |

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13070-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-50724/8-A

Matrix: Solid | Lab File ID: 0716006.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3510C | Date Extracted: 07/13/2012 09:58

Sample wt/vol: 250(mL) | Date Analyzed: 07/16/2012 09:02

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 50843 | Units: mg/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 106-46-7 | 1,4-Dichlorobenzene | 0.0040 | U | 0.0040 | 0.00034 |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.020 | U | 0.020 | 0.00030 |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.020 | U | 0.020 | 0.00080 |
| 121-14-2 | 2,4-Dinitrotoluene | 0.020 | U | 0.020 | 0.00027 |
| 95-48-7 | 2-Methylphenol | 0.0040 | U | 0.0040 | 0.00080 |
| 15831-10-4 | 3 & 4 Methylphenol | 0.040 | U | 0.040 | 0.00075 |
| 118-74-1 | Hexachlorobenzene | 0.020 | U | 0.020 | 0.00010 |
| 87-68-3 | Hexachlorobutadiene | 0.020 | U | 0.020 | 0.00027 |
| 67-72-1 | Hexachloroethane | 0.020 | U | 0.020 | 0.00080 |
| 98-95-3 | Nitrobenzene | 0.0040 | U | 0.0040 | 0.000040 |
| 87-86-5 | Pentachlorophenol | 0.040 | U | 0.040 | 0.0024 |
| 110-86-1 | Pyridine | 0.020 | U | 0.020 | 0.00035 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 118-79-6 | 2,4,6-Tribromophenol (Surr) | 52 | | 17-117 |
| 321-60-8 | 2-Fluorobiphenyl (Surr) | 45 | | 22-110 |
| 367-12-4 | 2-Fluorophenol (Surr) | 48 | | 10-110 |
| 4165-60-0 | Nitrobenzene-d5 (Surr) | 50 | | 29-111 |
| 4165-62-2 | Phenol-d5 (Surr) | 42 | | 10-110 |
| 1718-51-0 | Terphenyl-d14 (Surr) | 68 | | 40-119 |

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Solid (TCLP) Level: Low

GC Column (1): RXI-5SILMS ID: 0.45 (mm)

| Client Sample ID | Lab Sample ID | 2FP # | PHL # | NBZ # | FBP # | TBP # | TPH # |
|---|---|---|---|---|---|---|---|
| MT-TCLP-8-10 | 240-13070-4 | 42 | 38 | 44 | 40 | 46 | 67 |
| | MB 240-50724/8-A | 48 | 42 | 50 | 45 | 52 | 68 |
| | LCS 240-50724/9-A | 51 | 44 | 52 | 47 | 61 | 77 |
| | 240-13082-H-1-F MS | 50 | 42 | 51 | 46 | 58 | 69 |

| | QC LIMITS |
|---|---|
| 2FP = 2-Fluorophenol (Surr) | 10-110 |
| PHL = Phenol-d5 (Surr) | 10-110 |
| NBZ = Nitrobenzene-d5 (Surr) | 29-111 |
| FBP = 2-Fluorobiphenyl (Surr) | 22-110 |
| TBP = 2,4,6-Tribromophenol (Surr) | 17-117 |
| TPH = Terphenyl-d14 (Surr) | 40-119 |

# Column to be used to flag recovery values

FORM II 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 0716007.D

Lab ID: LCS 240-50724/9-A Client ID:

| COMPOUND | SPIKE ADDED (mg/L) | LCS CONCENTRATION (mg/L) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| 2,4,5-Trichlorophenol | 0.0800 | 0.0506 | 63 | 35-111 | |
| 2,4,6-Trichlorophenol | 0.0800 | 0.0466 | 58 | 32-110 | |
| 2,4-Dinitrotoluene | 0.0800 | 0.0532 | 67 | 45-126 | |
| 2-Methylphenol | 0.0800 | 0.0528 | 66 | 24-110 | |
| 3 & 4 Methylphenol | 0.160 | 0.0920 | 58 | 27-110 | |
| Hexachlorobenzene | 0.0800 | 0.0482 | 60 | 47-116 | |
| Hexachlorobutadiene | 0.0800 | 0.0362 | 45 | 10-110 | |
| Hexachloroethane | 0.0800 | 0.0402 | 50 | 10-110 | |
| Nitrobenzene | 0.0800 | 0.0418 | 52 | 35-117 | |
| Pentachlorophenol | 0.0800 | 0.0445 | 56 | 12-110 | |
| Pyridine | 0.0800 | 0.0422 | 53 | 10-110 | |

# Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Solid (TCLP) Level: Low Lab File ID: 0716013.D

Lab ID: 240-13082-H-1-F MS Client ID:

| COMPOUND | SPIKE ADDED (mg/L) | SAMPLE CONCENTRATION (mg/L) | MS CONCENTRATION (mg/L) | MS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|---|
| 2,4,5-Trichlorophenol | 0.0800 | 0.020 U | 0.0479 | 60 | 24-143 | |
| 2,4,6-Trichlorophenol | 0.0800 | 0.020 U | 0.0442 | 55 | 36-135 | |
| 2,4-Dinitrotoluene | 0.0800 | 0.020 U | 0.0494 | 62 | 31-131 | |
| 2-Methylphenol | 0.0800 | 0.0040 U | 0.0526 | 66 | 33-115 | |
| 3 & 4 Methylphenol | 0.160 | 0.040 U | 0.0856 | 54 | 46-110 | |
| Hexachlorobenzene | 0.0800 | 0.020 U | 0.0447 | 56 | 36-132 | |
| Hexachlorobutadiene | 0.0800 | 0.020 U | 0.0364 | 46 | 18-116 | |
| Hexachloroethane | 0.0800 | 0.020 U | 0.0385 | 48 | 18-110 | |
| Nitrobenzene | 0.0800 | 0.0040 U | 0.0422 | 53 | 19-199 | |
| Pentachlorophenol | 0.0800 | 0.040 U | 0.0358 J | 45 | 10-140 | |
| Pyridine | 0.0800 | 0.020 U | 0.0397 | 50 | 10-148 | |

# Column to be used to flag recovery and RPD values

FORM III 8270C

FORM VIII

GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Sample No.: STD6 240-49822/5 Date Analyzed: 07/04/2012 09:03

Instrument ID: A4AG2 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 0704005.D Heated Purge: (Y/N) N

Calibration ID: 9863

| | | DCB | | NPT | | ANT | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | | 123876 | 3.56 | 503502 | 4.45 | 284319 | 5.72 |
| UPPER LIMIT | | 247752 | 4.06 | 1007004 | 4.95 | 568638 | 6.22 |
| LOWER LIMIT | | 61938 | 3.06 | 251751 | 3.95 | 142160 | 5.22 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| ICV 240-49822/11 | | 122178 | 3.56 | 501046 | 4.45 | 286063 | 5.72 |
| CCV 240-50843/2 CCVIS | | 97330 | 3.58 | 410769 | 4.47 | 235862 | 5.75 |

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270C

FORM VIII

GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Sample No.: STD6 240-49822/5 Date Analyzed: 07/04/2012 09:03

Instrument ID: A4AG2 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 0704005.D Heated Purge: (Y/N) N

Calibration ID: 9863

| | | PHN | | CRY | | PRY | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | | 443192 | 6.80 | 396201 | 8.76 | 311774 | 10.19 |
| UPPER LIMIT | | 886384 | 7.30 | 792402 | 9.26 | 623548 | 10.69 |
| LOWER LIMIT | | 221596 | 6.30 | 198101 | 8.26 | 155887 | 9.69 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| ICV 240-49822/11 | | 446815 | 6.80 | 402479 | 8.76 | 313917 | 10.18 |
| CCV 240-50843/2 CCVIS | | 377468 | 6.84 | 308975 | 8.82 | 235109 | 10.31 |

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270C

FORM VIII

GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Sample No.: CCV 240-50843/2 Date Analyzed: 07/16/2012 07:55

Instrument ID: A4AG2 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 0716002.D Heated Purge: (Y/N) N

Calibration ID: 9867

| | | DCB | | NPT | | ANT | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 97330 | 3.58 | 410769 | 4.47 | 235862 | 5.75 |
| UPPER LIMIT | | 194660 | 4.08 | 821538 | 4.97 | 471724 | 6.25 |
| LOWER LIMIT | | 48665 | 3.08 | 205385 | 3.97 | 117931 | 5.25 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| MB 240-50724/8-A | | 116950 | 3.58 | 495271 | 4.47 | 297583 | 5.75 |
| LCS 240-50724/9-A | | 124672 | 3.58 | 528092 | 4.47 | 323985 | 5.75 |
| 240-13082-H-1-F MS | | 113491 | 3.58 | 472033 | 4.47 | 284525 | 5.75 |
| 240-13070-4 | MT-TCLP-8-10 | 120193 | 3.58 | 507096 | 4.47 | 304347 | 5.75 |

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270C

FORM VIII

GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Sample No.: CCV 240-50843/2 Date Analyzed: 07/16/2012 07:55

Instrument ID: A4AG2 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 0716002.D Heated Purge: (Y/N) N

Calibration ID: 9867

| | | PHN | | CRY | | PRY | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 377468 | 6.84 | 308975 | 8.82 | 235109 | 10.31 |
| UPPER LIMIT | | 754936 | 7.34 | 617950 | 9.32 | 470218 | 10.81 |
| LOWER LIMIT | | 188734 | 6.34 | 154488 | 8.32 | 117555 | 9.81 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| MB 240-50724/8-A | | 480204 | 6.84 | 391211 | 8.82 | 309826 | 10.31 |
| LCS 240-50724/9-A | | 529212 | 6.84 | 433955 | 8.83 | 341058 | 10.31 |
| 240-13082-H-1-F MS | | 481527 | 6.84 | 396642 | 8.82 | 315093 | 10.31 |
| 240-13070-4 | MT-TCLP-8-10 | 497286 | 6.84 | 402403 | 8.82 | 320895 | 10.30 |

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270C

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab File ID: 20718001.D DFTPP Injection Date: 07/18/2012

Instrument ID: A4HP9 DFTPP Injection Time: 09:37

Analysis Batch No.: 51126

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 51 | 30.0- 80.0% of mass 198 | 44.7 | |
| 68 | Less than 2.0% of mass 69 | 0.0 | (0.0)1 |
| 69 | Mass 69 relative abundance | 71.0 | |
| 70 | Less than 2.0% of mass 69 | 0.3 | (0.4)1 |
| 127 | 25.0 - 75.0% of mass 198 | 52.9 | |
| 197 | Less than 1.0% of mass 198 | 0.0 | |
| 198 | Base Peak, 100% relative abundance | 100.0 | |
| 199 | 5.0 to 9.0% of mass 198 | 7.3 | |
| 275 | 10.0- 30.0% of mass 198 | 21.4 | |
| 365 | Greater than 0.75% of mass 198 | 2.4 | |
| 441 | Present, but less than mass 443 | 5.3 | |
| 442 | 40.0 - 110.0% of mass 198 | 46.2 | |
| 443 | 15.0 - 24.0% of mass 442 | 8.5 | (18.5)2 |

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | STD5 240-51126/2 | 20718002.D | 07/18/2012 | 09:54 |
| | STD4 240-51126/3 | 20718003.D | 07/18/2012 | 10:13 |
| | STD3 240-51126/4 | 20718004.D | 07/18/2012 | 10:33 |
| | STD2 240-51126/5 | 20718005.D | 07/18/2012 | 10:52 |
| | STD1 240-51126/6 | 20718006.D | 07/18/2012 | 11:11 |
| | STD9 240-51126/7 | 20718007.D | 07/18/2012 | 11:31 |
| | STD8 240-51126/8 | 20718008.D | 07/18/2012 | 11:50 |
| | STD7 240-51126/9 | 20718009.D | 07/18/2012 | 12:10 |
| | STD6 240-51126/10 | 20718010.D | 07/18/2012 | 12:29 |
| | ICV 240-51126/11 | 20718011.D | 07/18/2012 | 12:49 |

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-13070-1  Analy Batch No.: 51126

SDG No.:

Instrument ID: A4HP9  GC Column: RXI-5SILMS  ID: 0.45(mm)  Heated Purge: (Y/N) N

Calibration Start Date: 07/18/2012 09:54  Calibration End Date: 07/18/2012 12:29  Calibration ID: 10168

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-51126/6 | 20718006.D |
| Level 2 | STD2 240-51126/5 | 20718005.D |
| Level 3 | STD3 240-51126/4 | 20718004.D |
| Level 4 | STD4 240-51126/3 | 20718003.D |
| Level 5 | STD5 240-51126/2 | 20718002.D |
| Level 6 | STD6 240-51126/10 | 20718010.D |
| Level 7 | STD7 240-51126/9 | 20718009.D |
| Level 8 | STD8 240-51126/8 | 20718008.D |
| Level 9 | STD9 240-51126/7 | 20718007.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 1,4-Dioxane | 0.9578 | 1.0417<br>1.0077 | 0.9425<br>0.9511 | 0.9989<br>1.0726 | 0.9229 | Ave | | 0.9869 | | | | 5.3 | | 20.0 | | | |
| N-Nitrosodimethylamine | 1.8506 | 1.8208<br>1.8573 | 1.7127<br>1.7135 | 1.6390<br>1.8577 | 1.6153 | Ave | | 1.7584 | | | | 5.7 | | 20.0 | | | |
| Pyridine | 3.0052 | 2.9714<br>3.1111 | 2.7928<br>3.0630 | 2.6160<br>3.1378 | 2.6796 | Ave | | 2.9221 | | | | 6.9 | | 20.0 | | | |
| Ethyl methacrylate | 2.4517 | 2.5971<br>2.5109 | 2.3602<br>2.3402 | 2.2925<br>2.6128 | 2.2933 | Ave | | 2.4323 | | | | 5.4 | | 20.0 | | | |
| Benzaldehyde | 2.8218<br>2.2828 | 2.7601<br>+++++ | 2.7056<br>+++++ | 2.5546<br>+++++ | 2.4377 | Ave | | 2.5938 | | | 0.0100 | 8.0 | | 20.0 | | | |
| 3-Chloropropionitrile | 1.2451 | 1.2031<br>1.2416 | 1.1629<br>1.1414 | 1.1674<br>1.2458 | 1.1316 | Ave | | 1.1924 | | | | 4.0 | | 20.0 | | | |
| Malononitrile | 3.3344 | 3.0865<br>2.9911 | 3.1239<br>2.4553 | 3.1153<br>2.1764 | 3.1227 | Ave | | 2.9257 | | | | 14.0 | | 20.0 | | | |
| 2,4-Toluene diamine | 0.1520 | 0.3130<br>+++++ | 0.3197<br>+++++ | 0.2088<br>+++++ | 0.2283 | Ave | | 0.2444 | | | | 29.0 | * | 20.0 | | | |
| Phenol | 3.1350 | 2.7112<br>3.1422 | 2.8001<br>3.1323 | 2.7494<br>3.1820 | 2.7934 | Ave | | 2.9557 | | | 0.8000 | 7.0 | | 20.0 | | | |
| Aniline | 3.9529 | 3.6736<br>4.0746 | 3.6802<br>3.9465 | 3.6627<br>3.9369 | 3.5973 | Ave | | 3.8156 | | | | 4.7 | | 20.0 | | | |
| Bis(2-chloroethyl)ether | 2.9125 | 2.8922<br>2.9061 | 2.6571<br>2.9529 | 2.5283<br>2.9413 | 2.6269 | Ave | | 2.8022 | | | 0.7000 | 6.0 | | 20.0 | | | |
| 2-Chlorophenol | 1.5174 | 1.4858<br>1.5629 | 1.4855<br>1.5310 | 1.4797<br>1.5821 | 1.4406 | Ave | | 1.5106 | | | 0.8000 | 3.1 | | 20.0 | | | |
| 1,3-Dichlorobenzene | 1.8151 | 1.8783<br>1.8375 | 1.6727<br>1.7425 | 1.6868<br>1.8282 | 1.7308 | Ave | | 1.7740 | | | | 4.3 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-13070-1  Analy Batch No.: 51126

SDG No.:

Instrument ID: A4HP9  GC Column: RXI-5SILMS  ID: 0.45(mm)  Heated Purge: (Y/N) N

Calibration Start Date: 07/18/2012 09:54  Calibration End Date: 07/18/2012 12:29  Calibration ID: 10168

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 1,4-Dichlorobenzene | 1.6669 | 1.5982<br>1.6435 | 1.6209<br>1.5629 | 1.5961<br>1.6999 | 1.5868 | Ave | | 1.6219 | | | | 2.8 | | 20.0 | | | |
| Benzyl alcohol | 1.3667 | 1.2855<br>1.4163 | 1.2368<br>1.4428 | 1.2335<br>1.3956 | 1.2776 | Ave | | 1.3318 | | | | 6.3 | | 20.0 | | | |
| 1,2-Dichlorobenzene | 1.7448 | 1.6837<br>1.7305 | 1.5869<br>1.6726 | 1.6090<br>1.7471 | 1.6042 | Ave | | 1.6724 | | | | 3.9 | | 20.0 | | | |
| 2-Methylphenol | 1.9268 | 1.9556<br>1.9200 | 1.7495<br>1.9684 | 1.6914<br>1.9027 | 1.7883 | Ave | | 1.8628 | | | 0.7000 | 5.6 | | 20.0 | | | |
| Benzoic acid | 0.2374 | +++++<br>0.2744 | 0.1167<br>0.2920 | 0.1769<br>0.2937 | 0.2294 | Qua | -0.330 | 0.2488 | 0.0011 | | | | | | 0.9990 | | 0.9900 |
| 2,2'-oxybis[1-chloropropane] | 2.2472 | 2.0765<br>2.2447 | 2.1068<br>2.2578 | 1.9893<br>2.1769 | 2.0167 | Ave | | 2.1395 | | | | 5.0 | | 20.0 | | | |
| 3 & 4 Methylphenol | 2.0493 | 1.8481<br>2.0795 | 1.9415<br>2.1104 | 1.8560<br>2.0153 | 1.8916 | Ave | | 1.9740 | | | | 5.2 | | 20.0 | | | |
| N-Nitrosodi-n-propylamine | 2.3335 | 2.3680<br>2.3677 | 2.1513<br>2.4005 | 2.1089<br>2.2280 | 2.0072 | Ave | | 2.2456 | | | 0.5000 | 6.4 | | 20.0 | | | |
| Acetophenone | 3.0573 | 2.8247<br>3.0974 | 2.8921<br>3.2216 | 2.7210<br>3.0560 | 2.7414 | Ave | | 2.9514 | | | 0.0100 | 6.2 | | 20.0 | | | |
| Hexachloroethane | 0.8627 | 0.8513<br>0.8346 | 0.7797<br>0.8067 | 0.7455<br>0.8198 | 0.7878 | Ave | | 0.8110 | | | 0.3000 | 4.8 | | 20.0 | | | |
| Nitrobenzene | 0.8607 | 0.8536<br>0.8780 | 0.8285<br>0.8844 | 0.7858<br>0.8947 | 0.8008 | Ave | | 0.8483 | | | 0.2000 | 4.7 | | 20.0 | | | |
| Isophorone | 1.3425 | 1.1740<br>1.3949 | 1.2437<br>1.4592 | 1.2081<br>1.3968 | 1.2241 | Ave | | 1.3054 | | | 0.4000 | 8.1 | | 20.0 | | | |
| 2-Nitrophenol | 0.2192 | 0.1932<br>0.2334 | 0.1915<br>0.2380 | 0.1967<br>0.2460 | 0.2178 | Ave | | 0.2170 | | | 0.1000 | 9.8 | | 20.0 | | | |
| 2,4-Dimethylphenol | 0.5919 | 0.5474<br>0.6139 | 0.5521<br>0.6261 | 0.5407<br>0.6431 | 0.5489 | Ave | | 0.5830 | | | 0.2000 | 7.0 | | 20.0 | | | |
| 1,3,5-Trichlorobenzene | 0.3814 | 0.3535<br>0.3917 | 0.3583<br>0.3939 | 0.3565<br>0.4203 | 0.3585 | Ave | | 0.3768 | | | | 6.4 | | 20.0 | | | |
| Bis(2-chloroethoxy)methane | 0.7860 | 0.7293<br>0.8109 | 0.7436<br>0.8474 | 0.7241<br>0.8343 | 0.7332 | Ave | | 0.7761 | | | 0.3000 | 6.5 | | 20.0 | | | |
| 2,4-Dichlorophenol | 0.2980 | 0.2634<br>0.3067 | 0.2850<br>0.3139 | 0.2697<br>0.3217 | 0.2866 | Ave | | 0.2931 | | | 0.2000 | 7.1 | | 20.0 | | | |
| 1,2,4-Trichlorobenzene | 0.3799 | 0.3391<br>0.3889 | 0.3506<br>0.3923 | 0.3522<br>0.4055 | 0.3563 | Ave | | 0.3706 | | | | 6.5 | | 20.0 | | | |
| Naphthalene | 1.1528<br>1.0844 | 0.9813<br>1.1138 | 1.0140<br>1.1388 | 0.9848<br>1.1766 | 1.0005 | Ave | | 1.0719 | | | 0.7000 | 7.2 | | 20.0 | | | |
| 4-Chloroaniline | 0.4929 | 0.4558<br>0.5012 | 0.4900<br>0.5294 | 0.4721<br>0.5281 | 0.4654 | Ave | | 0.4919 | | | 0.0100 | 5.5 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-13070-1  Analy Batch No.: 51126

SDG No.:

Instrument ID: A4HP9  GC Column: RXI-5SILMS  ID: 0.45(mm)  Heated Purge: (Y/N) N

Calibration Start Date: 07/18/2012 09:54  Calibration End Date: 07/18/2012 12:29  Calibration ID: 10168

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Hexachlorobutadiene | 0.2111 | 0.2059<br>0.2158 | 0.1963<br>0.2123 | 0.1981<br>0.2227 | 0.2029 | Ave | | 0.2081 | | | 0.0100 | 4.3 | | 20.0 | | | |
| 1,2,3-Trichlorobenzene | 0.3486 | 0.3246<br>0.3577 | 0.3370<br>0.3625 | 0.3234<br>0.3709 | 0.3343 | Ave | | 0.3449 | | | | 5.2 | | 20.0 | | | |
| Caprolactam | 0.1634 | 0.1449<br>0.1660 | 0.1527<br>0.1763 | 0.1464<br>0.1684 | 0.1490 | Ave | | 0.1584 | | | 0.0100 | 7.4 | | 20.0 | | | |
| 4-Chloro-3-methylphenol | 0.4996 | 0.4538<br>0.5179 | 0.4541<br>0.5535 | 0.4591<br>0.5363 | 0.4639 | Ave | | 0.4923 | | | 0.2000 | 8.1 | | 20.0 | | | |
| 2-Methylnaphthalene | 0.7308<br>0.7339 | 0.6640<br>0.7703 | 0.6570<br>0.7954 | 0.6363<br>0.8117 | 0.6895 | Ave | | 0.7210 | | | 0.4000 | 8.8 | | 20.0 | | | |
| 2,4-Dinitrophenol | 0.2286 | +++++<br>0.2419 | 0.1374<br>0.2606 | 0.1737<br>0.2787 | 0.2215 | Qua | -0.077 | 0.1987 | 0.0016 | | 0.0100 | | | | 1.0000 | | 0.9900 |
| 1-Methylnaphthalene | 0.7516<br>0.7123 | 0.6456<br>0.7257 | 0.6356<br>0.7630 | 0.6108<br>0.7740 | 0.6537 | Ave | | 0.6969 | | | | 8.8 | | 20.0 | | | |
| 1,2,3,5-Tetrachlorobenzene | 0.6445 | 0.5436<br>0.6564 | 0.5983<br>0.6472 | 0.5591<br>0.7008 | 0.6054 | Ave | | 0.6194 | | | | 8.5 | | 20.0 | | | |
| Hexachlorocyclopentadiene | 0.4353 | 0.3520<br>0.4402 | 0.3714<br>0.4375 | 0.3509<br>0.4663 | 0.4247 | Ave | | 0.4098 | | | 0.0500 | 11.0 | | 20.0 | | | |
| 2,4,6-Trichlorophenol | 0.3820 | 0.3055<br>0.3894 | 0.3615<br>0.3938 | 0.3557<br>0.4027 | 0.3658 | Ave | | 0.3696 | | | 0.2000 | 8.3 | | 20.0 | | | |
| 2,4,5-Trichlorophenol | 0.3995 | 0.3413<br>0.4088 | 0.3843<br>0.4194 | 0.3639<br>0.4281 | 0.3913 | Ave | | 0.3921 | | | 0.2000 | 7.3 | | 20.0 | | | |
| 1,1'-Biphenyl | 1.6350<br>1.5747 | 1.3678<br>1.6468 | 1.4203<br>1.6420 | 1.3621<br>1.7608 | 1.4379 | Ave | | 1.5386 | | | 0.0100 | 9.4 | | 20.0 | | | |
| 1,2,3,4 -Tetrachlorobenzene | 0.6134 | 0.5486<br>0.6363 | 0.5597<br>0.6365 | 0.5492<br>0.6746 | 0.5814 | Ave | | 0.6000 | | | | 7.9 | | 20.0 | | | |
| 2-Chloronaphthalene | 1.4704<br>1.3088 | 1.2261<br>1.3166 | 1.2212<br>1.3331 | 1.1487<br>1.4103 | 1.2537 | Ave | | 1.2988 | | | 0.8000 | 7.7 | | 20.0 | | | |
| 4,6-Dinitro-2-methylphenol | 0.1573 | +++++<br>0.1616 | 0.1185<br>0.1653 | 0.1396<br>0.1720 | 0.1603 | Ave | | 0.1535 | | | 0.0100 | 12.0 | | 20.0 | | | |
| 2-Nitroaniline | 0.7102 | 0.6307<br>0.7157 | 0.6594<br>0.7170 | 0.6235<br>0.7317 | 0.6590 | Ave | | 0.6809 | | | 0.0100 | 6.3 | | 20.0 | | | |
| Dimethyl phthalate | 1.3680 | 1.1815<br>1.3896 | 1.2333<br>1.4323 | 1.2393<br>1.4155 | 1.2789 | Ave | | 1.3173 | | | 0.0100 | 7.2 | | 20.0 | | | |
| 2,6-Dinitrotoluene | 0.3678 | 0.2956<br>0.3750 | 0.3354<br>0.3781 | 0.3148<br>0.3812 | 0.3523 | Ave | | 0.3500 | | | | 9.1 | | 20.0 | | | |
| 1,2-Dinitrobenzene | 0.1776 | 0.1468<br>0.1801 | 0.1642<br>0.1824 | 0.1529<br>0.1827 | 0.1704 | Ave | | 0.1696 | | | | 8.2 | | 20.0 | | | |
| Acenaphthylene | 2.0400<br>1.9412 | 1.6679<br>2.0173 | 1.7609<br>1.9891 | 1.7197<br>2.0922 | 1.8225 | Ave | | 1.8945 | | | 0.9000 | 8.2 | | 20.0 | | | |

Note: The ml coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-13070-1  Analy Batch No.: 51126

SDG No.:

Instrument ID: A4HP9  GC Column: RXI-5SILMS  ID: 0.45(mm)  Heated Purge: (Y/N) N

Calibration Start Date: 07/18/2012 09:54  Calibration End Date: 07/18/2012 12:29  Calibration ID: 10168

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1 LVL 6 | LVL 2 LVL 7 | LVL 3 LVL 8 | LVL 4 LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 3-Nitroaniline | 0.3580 | 0.3380 0.3632 | 0.3231 0.3627 | 0.3274 0.3692 | 0.3434 | Ave | | 0.3481 | | | 0.0100 | 5.1 | | 20.0 | | | |
| Acenaphthene | 1.3717 1.2703 | 1.1108 1.3010 | 1.1589 1.3466 | 1.0808 1.4114 | 1.1577 | Ave | | 1.2455 | | | 0.9000 | 9.7 | | 20.0 | | | |
| 4-Nitrophenol | 0.3305 | 0.2480 0.3444 | 0.2708 0.3518 | 0.3175 0.3588 | 0.3050 | Ave | | 0.3159 | | | | 13.0 | | 20.0 | | | |
| 2,4-Dinitrotoluene | 0.5101 | 0.4106 0.5063 | 0.4340 0.5117 | 0.4551 0.5143 | 0.4715 | Ave | | 0.4767 | | | 0.2000 | 8.4 | | 20.0 | | | |
| Dibenzofuran | 1.6133 1.6627 | 1.4149 1.6813 | 1.5306 1.7309 | 1.4895 1.7971 | 1.5275 | Ave | | 1.6053 | | | 0.8000 | 7.7 | | 20.0 | | | |
| 2,3,5,6-Tetrachlorophenol | 0.3318 | 0.2706 0.3423 | 0.3176 0.3422 | 0.2976 0.3538 | 0.3173 | Ave | | 0.3217 | | | | 8.5 | | 20.0 | | | |
| Diethyl phthalate | 1.4230 | 1.3016 1.4671 | 1.3264 1.5019 | 1.3077 1.5150 | 1.3247 | Ave | | 1.3959 | | | 0.0100 | 6.5 | | 20.0 | | | |
| 4-Chlorophenyl phenyl ether | 0.7634 | 0.6873 0.7798 | 0.7140 0.8090 | 0.6895 0.8352 | 0.7099 | Ave | | 0.7485 | | | 0.4000 | 7.5 | | 20.0 | | | |
| 4-Nitroaniline | 0.3917 | 0.3377 0.4134 | 0.3313 0.4143 | 0.3404 0.4320 | 0.3721 | Ave | | 0.3791 | | | 0.0100 | 10.0 | | 20.0 | | | |
| Fluorene | 1.4529 1.4429 | 1.2748 1.4651 | 1.2557 1.5126 | 1.2591 1.5535 | 1.2956 | Ave | | 1.3903 | | | 0.9000 | 8.5 | | 20.0 | | | |
| N-Nitrosodiphenylamine | 0.6148 | 0.5705 0.6337 | 0.5904 0.6271 | 0.5590 0.6490 | 0.5858 | Ave | | 0.6038 | | | 0.0100 | 5.3 | | 20.0 | | | |
| 1,2-Diphenylhydrazine(as Azobenzene) | 1.5936 | 1.4783 1.5826 | 1.5053 1.6071 | 1.4489 1.6526 | 1.4422 | Ave | | 1.5402 | | | | 5.1 | | 20.0 | | | |
| Azobenzene | 1.5946 | 1.4783 1.5831 | 1.5112 1.6071 | 1.4504 1.6526 | 1.4445 | Ave | | 1.5402 | | | | 5.1 | | 20.0 | | | |
| 4-Bromophenyl phenyl ether | 0.2292 | 0.2092 0.2290 | 0.2137 0.2357 | 0.2242 0.2439 | 0.2213 | Ave | | 0.2258 | | | 0.1000 | 5.0 | | 20.0 | | | |
| Hexachlorobenzene | 0.2044 0.1881 | 0.1781 0.1943 | 0.1983 0.1947 | 0.1723 0.2014 | 0.1809 | Ave | | 0.1903 | | | 0.1000 | 5.8 | | 20.0 | | | |
| Atrazine | 0.2023 | 0.1940 0.2022 | 0.2015 0.1984 | 0.2020 0.1822 | 0.1957 | Ave | | 0.1973 | | | 0.0100 | 3.5 | | 20.0 | | | |
| Pentachlorophenol | 0.1318 | 0.0818 0.1426 | 0.1047 0.1535 | 0.1208 0.1549 | 0.1369 | Ave | | 0.1284 | | | 0.0500 | 20.0 | | 20.0 | | | |
| Phenanthrene | 1.2633 1.1893 | 1.0616 1.2033 | 1.0896 1.2502 | 1.0787 1.2845 | 1.1072 | Ave | | 1.1698 | | | 0.7000 | 7.4 | | 20.0 | | | |
| Anthracene | 1.2644 1.2365 | 1.0849 1.2653 | 1.1102 1.2942 | 1.1293 1.3357 | 1.1661 | Ave | | 1.2096 | | | 0.7000 | 7.4 | | 20.0 | | | |
| Carbazole | 1.1321 | 1.0163 1.1698 | 1.0622 1.1854 | 1.0347 1.2202 | 1.0695 | Ave | | 1.1113 | | | 0.0100 | 6.8 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-13070-1  Analy Batch No.: 51126

SDG No.:

Instrument ID: A4HP9  GC Column: RXI-5SILMS  ID: 0.45(mm)  Heated Purge: (Y/N) N

Calibration Start Date: 07/18/2012 09:54  Calibration End Date: 07/18/2012 12:29  Calibration ID: 10168

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Di-n-butyl phthalate | 1.5042 | 1.3243<br>1.5493 | 1.3784<br>1.5776 | 1.3597<br>1.6372 | 1.3971 | Ave | | 1.4660 | | | 0.0100 | 7.9 | | 20.0 | | | |
| Fluoranthene | 1.2988<br>1.3616 | 1.1705<br>1.3873 | 1.2218<br>1.4265 | 1.1901<br>1.4618 | 1.2336 | Ave | | 1.3058 | | | 0.6000 | 8.2 | | 20.0 | | | |
| Benzidine | 0.8547 | 0.6766<br>0.8348 | 0.7293<br>0.8121 | 0.6994<br>0.7926 | 0.7834 | Ave | | 0.7729 | | | | 8.3 | | 20.0 | | | |
| Pyrene | 1.5064<br>1.5142 | 1.3954<br>1.5594 | 1.4240<br>1.5521 | 1.3627<br>1.6063 | 1.4080 | Ave | | 1.4809 | | | 0.6000 | 5.8 | | 20.0 | | | |
| Butyl benzyl phthalate | 0.7678 | 0.7009<br>0.7755 | 0.6804<br>0.7672 | 0.6584<br>0.7929 | 0.7178 | Ave | | 0.7326 | | | 0.0100 | 6.8 | | 20.0 | | | |
| 3,3'-Dimethoxybenzidine | 0.3840 | 0.2632<br>0.3903 | 0.3112<br>0.3851 | 0.3169<br>0.4047 | 0.3561 | Ave | | 0.3514 | | | | 14.0 | | 20.0 | | | |
| Bis(2-ethylhexyl) phthalate | 1.1000 | 0.9763<br>1.1412 | 0.9914<br>1.1597 | 0.9615<br>1.1703 | 1.0027 | Ave | | 1.0629 | | | 0.0100 | 8.3 | | 20.0 | | | |
| 4,4'-Methylene bis(2-chloroaniline) | 0.2905 | 0.2158<br>0.3015 | 0.2494<br>0.2965 | 0.2578<br>0.3056 | 0.2704 | Ave | | 0.2734 | | | | 11.0 | | 20.0 | | | |
| 3,3'-Dichlorobenzidine | 0.5050 | 0.4299<br>0.5217 | 0.4451<br>0.5160 | 0.4581<br>0.5363 | 0.4782 | Ave | | 0.4863 | | | 0.0100 | 8.1 | | 20.0 | | | |
| Benzo[a]anthracene | 1.5473<br>1.3698 | 1.3099<br>1.3901 | 1.3096<br>1.3701 | 1.2620<br>1.4335 | 1.2984 | Ave | | 1.3656 | | | 0.8000 | 6.3 | | 20.0 | | | |
| Chrysene | 1.3272<br>1.2366 | 1.1577<br>1.2666 | 1.1743<br>1.2444 | 1.1348<br>1.2925 | 1.1569 | Ave | | 1.2212 | | | 0.7000 | 5.6 | | 20.0 | | | |
| Di-n-octyl phthalate | 2.6027 | 2.0943<br>2.6600 | 2.2085<br>2.7206 | 2.2950<br>2.7706 | 2.4178 | Ave | | 2.4712 | | | 0.0100 | 10.0 | | 20.0 | | | |
| Benzo[b]fluoranthene | 1.6393<br>1.7471 | 1.4488<br>1.8173 | 1.5975<br>1.9395 | 1.5883<br>2.0434 | 1.6086 | Ave | | 1.7144 | | | 0.7000 | 11.0 | | 20.0 | | | |
| Benzo[k]fluoranthene | 1.8351<br>1.8718 | 1.5771<br>1.8389 | 1.6406<br>1.7697 | 1.6927<br>1.7939 | 1.8214 | Ave | | 1.7601 | | | 0.7000 | 5.7 | | 20.0 | | | |
| Benzo[a]pyrene | 1.5703<br>1.6723 | 1.4324<br>1.6655 | 1.5187<br>1.6693 | 1.5179<br>1.7368 | 1.5461 | Ave | | 1.5921 | | | 0.7000 | 6.2 | | 20.0 | | | |
| Indeno[1,2,3-cd]pyrene | 1.6770<br>1.7904 | 1.4554<br>1.8060 | 1.5488<br>1.8222 | 1.6029<br>1.8804 | 1.6514 | Ave | | 1.6927 | | | 0.5000 | 8.4 | | 20.0 | | | |
| Dibenzo(a,h)anthracene | 1.2068<br>1.4718 | 1.1140<br>1.5009 | 1.2375<br>1.5309 | 1.2778<br>1.5863 | 1.3735 | Ave | | 1.3666 | | | 0.4000 | 12.0 | | 20.0 | | | |
| Benzo[g,h,i]perylene | 1.4397<br>1.4221 | 1.2402<br>1.4240 | 1.2673<br>1.4426 | 1.3168<br>1.5187 | 1.3402 | Ave | | 1.3791 | | | 0.5000 | 6.7 | | 20.0 | | | |
| 2-Fluorophenol (Surr) | 1.8389 | 1.6394<br>1.9144 | 1.7092<br>1.8652 | 1.6253<br>1.8632 | 1.6640 | Ave | | 1.7650 | | | | 6.6 | | 20.0 | | | |
| Phenol-d5 (Surr) | 2.9128 | 2.6680<br>2.9215 | 2.5819<br>2.9653 | 2.4865<br>2.9119 | 2.5611 | Ave | | 2.7511 | | | | 7.1 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13070-1 Analy Batch No.: 51126

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/18/2012 09:54 Calibration End Date: 07/18/2012 12:29 Calibration ID: 10168

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Nitrobenzene-d5 (Surr) | 0.9663<br>0.8568 | 0.7949<br>0.8511 | 0.8384<br>0.8653 | 0.7716<br>0.8750 | 0.7763 | Ave | | 0.8440 | | | | 7.1 | | 20.0 | | | |
| 2-Fluorobiphenyl (Surr) | 1.6271<br>1.5709 | 1.4225<br>1.5669 | 1.4736<br>1.6287 | 1.4458<br>1.6800 | 1.4717 | Ave | | 1.5430 | | | | 6.0 | | 20.0 | | | |
| 2,4,6-Tribromophenol (Surr) | <br>0.1197 | 0.0951<br>0.1265 | 0.1262<br>0.1268 | 0.0998<br>0.1292 | 0.1153 | Ave | | 0.1173 | | | | 11.0 | | 20.0 | | | |
| Terphenyl-d14 (Surr) | 0.9684<br>0.8977 | 0.8018<br>0.9168 | 0.8051<br>0.9252 | 0.7871<br>0.9448 | 0.8261 | Ave | | 0.8748 | | | | 8.0 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab Sample ID: ICV 240-51126/11 Calibration Date: 07/18/2012 12:49

Instrument ID: A4HP9 Calib Start Date: 07/18/2012 09:54

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 07/18/2012 12:29

Lab File ID: 20718011.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | Ave | 0.9869 | 0.9789 | | 9.92 | 10.0 | -0.8 | 30.0 |
| N-Nitrosodimethylamine | Ave | 1.758 | 1.823 | | 10.4 | 10.0 | 3.7 | 30.0 |
| Pyridine | Ave | 2.922 | 2.915 | | 9.98 | 10.0 | -0.2 | 30.0 |
| Ethyl methacrylate | Ave | 2.432 | 2.469 | | 10.2 | 10.0 | 1.5 | 30.0 |
| 3-Chloropropionitrile | Ave | 1.192 | 1.243 | | 10.4 | 10.0 | 4.3 | 30.0 |
| Malononitrile | Ave | 2.926 | 3.287 | | 11.2 | 10.0 | 12.4 | 30.0 |
| Benzaldehyde | Ave | 2.594 | 2.102 | 0.0100 | 8.10 | 10.0 | -19.0 | 30.0 |
| Phenol | Ave | 2.956 | 2.986 | 0.8000 | 10.1 | 10.0 | 1.0 | 30.0 |
| Aniline | Ave | 3.816 | 3.742 | | 9.81 | 10.0 | -1.9 | 30.0 |
| Bis(2-chloroethyl)ether | Ave | 2.802 | 2.764 | 0.7000 | 9.86 | 10.0 | -1.4 | 30.0 |
| 2-Chlorophenol | Ave | 1.511 | 1.481 | 0.8000 | 9.80 | 10.0 | -2.0 | 30.0 |
| 1,3-Dichlorobenzene | Ave | 1.774 | 1.750 | | 9.86 | 10.0 | -1.4 | 30.0 |
| 1,4-Dichlorobenzene | Ave | 1.622 | 1.631 | | 10.1 | 10.0 | 0.5 | 30.0 |
| Benzyl alcohol | Ave | 1.332 | 1.322 | | 9.93 | 10.0 | -0.7 | 30.0 |
| 1,2-Dichlorobenzene | Ave | 1.672 | 1.684 | | 10.1 | 10.0 | 0.7 | 30.0 |
| 2-Methylphenol | Ave | 1.863 | 1.797 | 0.7000 | 9.65 | 10.0 | -3.5 | 30.0 |
| 2,2'-oxybis[1-chloropropane] | Ave | 2.139 | 2.152 | | 10.1 | 10.0 | 0.6 | 30.0 |
| 3 & 4 Methylphenol | Ave | 1.974 | 1.908 | | 9.66 | 10.0 | -3.4 | 30.0 |
| N-Nitrosodi-n-propylamine | Ave | 2.246 | 2.199 | 0.5000 | 9.79 | 10.0 | -2.1 | 30.0 |
| Acetophenone | Ave | 2.951 | 2.877 | 0.0100 | 9.75 | 10.0 | -2.5 | 30.0 |
| Hexachloroethane | Ave | 0.8110 | 0.8215 | 0.3000 | 10.1 | 10.0 | 1.3 | 30.0 |
| Nitrobenzene | Ave | 0.8483 | 0.8647 | 0.2000 | 10.2 | 10.0 | 1.9 | 30.0 |
| Isophorone | Ave | 1.305 | 1.297 | 0.4000 | 9.93 | 10.0 | -0.7 | 30.0 |
| 2,4-Dimethylphenol | Ave | 0.5830 | 0.5735 | 0.2000 | 9.84 | 10.0 | -1.6 | 30.0 |
| 2-Nitrophenol | Ave | 0.2170 | 0.2090 | 0.1000 | 9.63 | 10.0 | -3.7 | 30.0 |
| 1,3,5-Trichlorobenzene | Ave | 0.3768 | 0.3676 | | 9.76 | 10.0 | -2.4 | 30.0 |
| Bis(2-chloroethoxy)methane | Ave | 0.7761 | 0.7731 | 0.3000 | 9.96 | 10.0 | -0.4 | 30.0 |
| Benzoic acid | Qua | | 0.2426 | | 19.2 | 20.0 | -4.0 | 30.0 |
| 2,4-Dichlorophenol | Ave | 0.2931 | 0.2878 | 0.2000 | 9.82 | 10.0 | -1.8 | 30.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.3706 | 0.3711 | | 10.0 | 10.0 | 0.1 | 30.0 |
| Naphthalene | Ave | 1.072 | 1.043 | 0.7000 | 9.73 | 10.0 | -2.7 | 30.0 |
| 4-Chloroaniline | Ave | 0.4919 | 0.4785 | 0.0100 | 9.73 | 10.0 | -2.7 | 30.0 |
| Hexachlorobutadiene | Ave | 0.2081 | 0.2062 | 0.0100 | 9.91 | 10.0 | -0.9 | 30.0 |
| 1,2,3-Trichlorobenzene | Ave | 0.3449 | 0.3369 | | 9.77 | 10.0 | -2.3 | 30.0 |
| Caprolactam | Ave | 0.1584 | 0.1522 | 0.0100 | 9.61 | 10.0 | -3.9 | 30.0 |
| 4-Chloro-3-methylphenol | Ave | 0.4923 | 0.4977 | 0.2000 | 10.1 | 10.0 | 1.1 | 30.0 |
| 2-Methylnaphthalene | Ave | 0.7210 | 0.7088 | 0.4000 | 9.83 | 10.0 | -1.7 | 30.0 |
| 1-Methylnaphthalene | Ave | 0.6969 | 0.6868 | | 9.85 | 10.0 | -1.5 | 30.0 |
| 1,2,3,5-Tetrachlorobenzene | Ave | 0.6194 | 0.6179 | | 9.98 | 10.0 | -0.2 | 30.0 |
| Hexachlorocyclopentadiene | Ave | 0.4098 | 0.4229 | 0.0500 | 10.3 | 10.0 | 3.2 | 30.0 |
| 2,4,6-Trichlorophenol | Ave | 0.3696 | 0.3655 | 0.2000 | 9.89 | 10.0 | -1.1 | 30.0 |

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab Sample ID: ICV 240-51126/11 Calibration Date: 07/18/2012 12:49

Instrument ID: A4HP9 Calib Start Date: 07/18/2012 09:54

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 07/18/2012 12:29

Lab File ID: 20718011.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 2,4,5-Trichlorophenol | Ave | 0.3921 | 0.4027 | 0.2000 | 10.3 | 10.0 | 2.7 | 30.0 |
| 2,4-Toluene diamine | Ave | 0.2444 | 0.1701 | | 6.96 | 10.0 | -30.4* | 30.0 |
| 1,1'-Biphenyl | Ave | 1.539 | 1.491 | 0.0100 | 9.69 | 10.0 | -3.1 | 30.0 |
| 1,2,3,4 -Tetrachlorobenzene | Ave | 0.6000 | 0.5984 | | 9.97 | 10.0 | -0.3 | 30.0 |
| 2-Chloronaphthalene | Ave | 1.299 | 1.238 | 0.8000 | 9.53 | 10.0 | -4.7 | 30.0 |
| 2-Nitroaniline | Ave | 0.6809 | 0.6960 | 0.0100 | 10.2 | 10.0 | 2.2 | 30.0 |
| Dimethyl phthalate | Ave | 1.317 | 1.343 | 0.0100 | 10.2 | 10.0 | 1.9 | 30.0 |
| 2,6-Dinitrotoluene | Ave | 0.3500 | 0.3591 | | 10.3 | 10.0 | 2.6 | 30.0 |
| 1,2-Dinitrobenzene | Ave | 0.1696 | 0.1692 | | 9.97 | 10.0 | -0.3 | 30.0 |
| Acenaphthylene | Ave | 1.895 | 1.877 | 0.9000 | 9.91 | 10.0 | -0.9 | 30.0 |
| 3-Nitroaniline | Ave | 0.3481 | 0.3458 | 0.0100 | 9.93 | 10.0 | -0.7 | 30.0 |
| 2,4-Dinitrophenol | Qua | | 0.2131 | 0.0100 | 18.9 | 20.0 | -5.5 | 30.0 |
| Acenaphthene | Ave | 1.245 | 1.220 | 0.9000 | 9.80 | 10.0 | -2.0 | 30.0 |
| 4-Nitrophenol | Ave | 0.3159 | 0.3261 | | 10.3 | 10.0 | 3.3 | 30.0 |
| 2,4-Dinitrotoluene | Ave | 0.4767 | 0.4757 | 0.2000 | 9.98 | 10.0 | -0.2 | 30.0 |
| Dibenzofuran | Ave | 1.605 | 1.591 | 0.8000 | 9.91 | 10.0 | -0.9 | 30.0 |
| 2,3,5,6-Tetrachlorophenol | Ave | 0.3217 | 0.3115 | | 9.68 | 10.0 | -3.2 | 30.0 |
| Diethyl phthalate | Ave | 1.396 | 1.388 | 0.0100 | 9.94 | 10.0 | -0.6 | 30.0 |
| 4-Chlorophenyl phenyl ether | Ave | 0.7485 | 0.7297 | 0.4000 | 9.75 | 10.0 | -2.5 | 30.0 |
| 4-Nitroaniline | Ave | 0.3791 | 0.3846 | 0.0100 | 10.1 | 10.0 | 1.4 | 30.0 |
| Fluorene | Ave | 1.390 | 1.391 | 0.9000 | 10.0 | 10.0 | 0.0 | 30.0 |
| 4,6-Dinitro-2-methylphenol | Ave | 0.1535 | 0.1514 | 0.0100 | 9.86 | 10.0 | -1.4 | 30.0 |
| N-Nitrosodiphenylamine | Ave | 0.6038 | 0.6028 | 0.0100 | 9.98 | 10.0 | -0.2 | 30.0 |
| 1,2-Diphenylhydrazine(as Azobenzene) | Ave | 1.540 | 1.593 | | 10.3 | 10.0 | 3.4 | 30.0 |
| Azobenzene | Ave | 1.540 | 1.593 | | 10.3 | 10.0 | 3.4 | 30.0 |
| 4-Bromophenyl phenyl ether | Ave | 0.2258 | 0.2266 | 0.1000 | 10.0 | 10.0 | 0.4 | 30.0 |
| Hexachlorobenzene | Ave | 0.1903 | 0.1862 | 0.1000 | 9.79 | 10.0 | -2.1 | 30.0 |
| Atrazine | Ave | 0.1973 | 0.2025 | 0.0100 | 10.3 | 10.0 | 2.7 | 30.0 |
| Pentachlorophenol | Ave | 0.1284 | 0.1355 | 0.0500 | 21.1 | 20.0 | 5.6 | 30.0 |
| Phenanthrene | Ave | 1.170 | 1.157 | 0.7000 | 9.89 | 10.0 | -1.1 | 30.0 |
| Anthracene | Ave | 1.210 | 1.206 | 0.7000 | 9.97 | 10.0 | -0.3 | 30.0 |
| Carbazole | Ave | 1.111 | 1.099 | 0.0100 | 9.89 | 10.0 | -1.1 | 30.0 |
| Di-n-butyl phthalate | Ave | 1.466 | 1.475 | 0.0100 | 10.1 | 10.0 | 0.6 | 30.0 |
| Fluoranthene | Ave | 1.306 | 1.311 | 0.6000 | 10.0 | 10.0 | 0.4 | 30.0 |
| Benzidine | Ave | 0.7729 | 0.8265 | | 10.7 | 10.0 | 6.9 | 30.0 |
| Pyrene | Ave | 1.481 | 1.524 | 0.6000 | 10.3 | 10.0 | 2.9 | 30.0 |
| Butyl benzyl phthalate | Ave | 0.7326 | 0.7565 | 0.0100 | 10.3 | 10.0 | 3.3 | 30.0 |
| 3,3'-Dimethoxybenzidine | Ave | 0.3514 | 0.3850 | | 11.0 | 10.0 | 9.5 | 30.0 |
| Bis(2-ethylhexyl) phthalate | Ave | 1.063 | 1.093 | 0.0100 | 10.3 | 10.0 | 2.9 | 30.0 |
| 4,4'-Methylene bis(2-chloroaniline) | Ave | 0.2734 | 0.2922 | | 10.7 | 10.0 | 6.9 | 30.0 |

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: ICV 240-51126/11  Calibration Date: 07/18/2012 12:49

Instrument ID: A4HP9  Calib Start Date: 07/18/2012 09:54

GC Column: RXI-5SILMS  ID: 0.45(mm)  Calib End Date: 07/18/2012 12:29

Lab File ID: 20718011.D  Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 3,3'-Dichlorobenzidine | Ave | 0.4863 | 0.4993 | 0.0100 | 10.3 | 10.0 | 2.7 | 30.0 |
| Benzo[a]anthracene | Ave | 1.366 | 1.349 | 0.8000 | 9.88 | 10.0 | -1.2 | 30.0 |
| Chrysene | Ave | 1.221 | 1.242 | 0.7000 | 10.2 | 10.0 | 1.7 | 30.0 |
| Di-n-octyl phthalate | Ave | 2.471 | 2.499 | 0.0100 | 10.1 | 10.0 | 1.1 | 30.0 |
| Benzo[b]fluoranthene | Ave | 1.714 | 1.704 | 0.7000 | 9.94 | 10.0 | -0.6 | 30.0 |
| Benzo[k]fluoranthene | Ave | 1.760 | 1.776 | 0.7000 | 10.1 | 10.0 | 0.9 | 30.0 |
| Benzo[a]pyrene | Ave | 1.592 | 1.607 | 0.7000 | 10.1 | 10.0 | 0.9 | 30.0 |
| Indeno[1,2,3-cd]pyrene | Ave | 1.693 | 1.696 | 0.5000 | 10.0 | 10.0 | 0.2 | 30.0 |
| Dibenzo(a,h)anthracene | Ave | 1.367 | 1.401 | 0.4000 | 10.3 | 10.0 | 2.5 | 30.0 |
| Benzo[g,h,i]perylene | Ave | 1.379 | 1.356 | 0.5000 | 9.84 | 10.0 | -1.6 | 30.0 |
| 2-Fluorophenol (Surr) | Ave | 1.765 | 1.783 | | 10.1 | 10.0 | 1.0 | 30.0 |
| Phenol-d5 (Surr) | Ave | 2.751 | 2.750 | | 10.0 | 10.0 | -0.0 | 30.0 |
| Nitrobenzene-d5 (Surr) | Ave | 0.8440 | 0.8375 | | 9.92 | 10.0 | -0.8 | 30.0 |
| 2-Fluorobiphenyl (Surr) | Ave | 1.543 | 1.513 | | 9.81 | 10.0 | -1.9 | 30.0 |
| 2,4,6-Tribromophenol (Surr) | Ave | 0.1173 | 0.1192 | | 10.2 | 10.0 | 1.6 | 30.0 |
| Terphenyl-d14 (Surr) | Ave | 0.8748 | 0.8816 | | 10.1 | 10.0 | 0.8 | 30.0 |

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab File ID: 20723001.D DFTPP Injection Date: 07/23/2012

Instrument ID: A4HP9 DFTPP Injection Time: 08:17

Analysis Batch No.: 51606

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 51 | 30.0- 80.0% of mass 198 | 48.2 | |
| 68 | Less than 2.0% of mass 69 | 0.0 | (0.0)1 |
| 69 | Mass 69 relative abundance | 76.5 | |
| 70 | Less than 2.0% of mass 69 | 0.3 | (0.4)1 |
| 127 | 25.0 - 75.0% of mass 198 | 52.6 | |
| 197 | Less than 1.0% of mass 198 | 0.0 | |
| 198 | Base Peak, 100% relative abundance | 100.0 | |
| 199 | 5.0 to 9.0% of mass 198 | 7.0 | |
| 275 | 10.0- 30.0% of mass 198 | 21.2 | |
| 365 | Greater than 0.75% of mass 198 | 2.0 | |
| 441 | Present, but less than mass 443 | 8.0 | |
| 442 | 40.0 - 110.0% of mass 198 | 43.2 | |
| 443 | 15.0 - 24.0% of mass 442 | 8.4 | (19.5)2 |

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | CCV 240-51606/2 | 20723002.D | 07/23/2012 | 08:38 |
| | MB 240-51373/21-A | 20723006.D | 07/23/2012 | 09:56 |
| | LCS 240-51373/22-A | 20723007.D | 07/23/2012 | 10:15 |
| MT-SS18-0-2 | 240-13070-2 | 20723018.D | 07/23/2012 | 13:44 |
| MT-SS18-8-10 | 240-13070-3 | 20723019.D | 07/23/2012 | 14:03 |
| MT-SB17-8-10 | 240-13070-6 | 20723020.D | 07/23/2012 | 14:22 |
| MT-SB17-0-2 | 240-13070-5 | 20723021.D | 07/23/2012 | 14:41 |
| MT-SB17-0-2 MS | 240-13070-5 MS | 20723022.D | 07/23/2012 | 15:00 |
| MT-SB17-0-2 MSD | 240-13070-5 MSD | 20723023.D | 07/23/2012 | 15:19 |

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCV 240-51606/2  Calibration Date: 07/23/2012 08:38

Instrument ID: A4HP9  Calib Start Date: 07/18/2012 09:54

GC Column: RXI-5SILMS  ID: 0.45(mm)  Calib End Date: 07/18/2012 12:29

Lab File ID: 20723002.D  Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | Ave | 0.9869 | 1.008 | | 10.2 | 10.0 | 2.1 | 20.0 |
| N-Nitrosodimethylamine | Ave | 1.758 | 1.859 | | 10.6 | 10.0 | 5.7 | 20.0 |
| Pyridine | Ave | 2.922 | 3.034 | | 10.4 | 10.0 | 3.8 | 20.0 |
| Ethyl methacrylate | Ave | 2.432 | 2.482 | | 10.2 | 10.0 | 2.0 | 20.0 |
| 3-Chloropropionitrile | Ave | 1.192 | 1.217 | | 10.2 | 10.0 | 2.1 | 20.0 |
| Malononitrile | Ave | 2.926 | 3.307 | | 11.3 | 10.0 | 13.0 | 20.0 |
| Benzaldehyde | Ave | 2.594 | 2.176 | 0.0100 | 8.39 | 10.0 | -16.1 | 20.0 |
| Phenol | Ave | 2.956 | 2.995 | 0.8000 | 10.1 | 10.0 | 1.3 | 20.0 |
| Aniline | Ave | 3.816 | 3.929 | | 10.3 | 10.0 | 3.0 | 20.0 |
| Bis(2-chloroethyl)ether | Ave | 2.802 | 2.792 | 0.7000 | 9.96 | 10.0 | -0.4 | 20.0 |
| 2-Chlorophenol | Ave | 1.511 | 1.497 | 0.8000 | 9.91 | 10.0 | -0.9 | 20.0 |
| 1,3-Dichlorobenzene | Ave | 1.774 | 1.794 | | 10.1 | 10.0 | 1.1 | 20.0 |
| 1,4-Dichlorobenzene | Ave | 1.622 | 1.648 | | 10.2 | 10.0 | 1.6 | 20.0 |
| Benzyl alcohol | Ave | 1.332 | 1.164 | | 8.74 | 10.0 | -12.6 | 20.0 |
| 1,2-Dichlorobenzene | Ave | 1.672 | 1.711 | | 10.2 | 10.0 | 2.3 | 20.0 |
| 2-Methylphenol | Ave | 1.863 | 1.814 | 0.7000 | 9.74 | 10.0 | -2.6 | 20.0 |
| 2,2'-oxybis[1-chloropropane] | Ave | 2.139 | 2.140 | | 10.0 | 10.0 | 0.0 | 20.0 |
| 3 & 4 Methylphenol | Ave | 1.974 | 1.981 | | 10.0 | 10.0 | 0.3 | 20.0 |
| Acetophenone | Ave | 2.951 | 3.005 | 0.0100 | 10.2 | 10.0 | 1.8 | 20.0 |
| N-Nitrosodi-n-propylamine | Ave | 2.246 | 2.225 | 0.5000 | 9.91 | 10.0 | -0.9 | 20.0 |
| Hexachloroethane | Ave | 0.8110 | 0.7976 | 0.3000 | 9.83 | 10.0 | -1.7 | 20.0 |
| Nitrobenzene | Ave | 0.8483 | 0.8824 | 0.2000 | 10.4 | 10.0 | 4.0 | 20.0 |
| Isophorone | Ave | 1.305 | 1.365 | 0.4000 | 10.5 | 10.0 | 4.6 | 20.0 |
| 2-Nitrophenol | Ave | 0.2170 | 0.2184 | 0.1000 | 10.1 | 10.0 | 0.6 | 20.0 |
| 1,3,5-Trichlorobenzene | Ave | 0.3768 | 0.3977 | | 10.6 | 10.0 | 5.6 | 20.0 |
| 2,4-Dimethylphenol | Ave | 0.5830 | 0.5987 | 0.2000 | 10.3 | 10.0 | 2.7 | 20.0 |
| Bis(2-chloroethoxy)methane | Ave | 0.7761 | 0.8099 | 0.3000 | 10.4 | 10.0 | 4.4 | 20.0 |
| Benzoic acid | Qua | | 0.2394 | | 19.0 | 20.0 | -5.0 | 20.0 |
| 2,4-Dichlorophenol | Ave | 0.2931 | 0.3077 | 0.2000 | 10.5 | 10.0 | 5.0 | 20.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.3706 | 0.3872 | | 10.4 | 10.0 | 4.5 | 20.0 |
| Naphthalene | Ave | 1.072 | 1.111 | 0.7000 | 10.4 | 10.0 | 3.6 | 20.0 |
| 4-Chloroaniline | Ave | 0.4919 | 0.4889 | 0.0100 | 9.94 | 10.0 | -0.6 | 20.0 |
| Hexachlorobutadiene | Ave | 0.2081 | 0.2194 | 0.0100 | 10.5 | 10.0 | 5.4 | 20.0 |
| 1,2,3-Trichlorobenzene | Ave | 0.3449 | 0.3549 | | 10.3 | 10.0 | 2.9 | 20.0 |
| Caprolactam | Ave | 0.1584 | 0.1649 | 0.0100 | 10.4 | 10.0 | 4.1 | 20.0 |
| 4-Chloro-3-methylphenol | Ave | 0.4923 | 0.5110 | 0.2000 | 10.4 | 10.0 | 3.8 | 20.0 |
| 2-Methylnaphthalene | Ave | 0.7210 | 0.7480 | 0.4000 | 10.4 | 10.0 | 3.7 | 20.0 |
| 1-Methylnaphthalene | Ave | 0.6969 | 0.7113 | | 10.2 | 10.0 | 2.1 | 20.0 |
| 1,2,3,5-Tetrachlorobenzene | Ave | 0.6194 | 0.6488 | | 10.5 | 10.0 | 4.7 | 20.0 |
| Hexachlorocyclopentadiene | Ave | 0.4098 | 0.3970 | 0.0500 | 9.69 | 10.0 | -3.1 | 20.0 |
| 2,4,6-Trichlorophenol | Ave | 0.3696 | 0.3800 | 0.2000 | 10.3 | 10.0 | 2.8 | 20.0 |

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCV 240-51606/2  Calibration Date: 07/23/2012 08:38

Instrument ID: A4HP9  Calib Start Date: 07/18/2012 09:54

GC Column: RXI-5SILMS  ID: 0.45(mm)  Calib End Date: 07/18/2012 12:29

Lab File ID: 20723002.D  Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 2,4,5-Trichlorophenol | Ave | 0.3921 | 0.4073 | 0.2000 | 10.4 | 10.0 | 3.9 | 20.0 |
| 2,4-Toluene diamine | Ave | 0.2444 | 0.1766 | | 7.23 | 10.0 | -27.7* | 20.0 |
| 1,1'-Biphenyl | Ave | 1.539 | 1.591 | 0.0100 | 10.3 | 10.0 | 3.4 | 20.0 |
| 1,2,3,4 -Tetrachlorobenzene | Ave | 0.6000 | 0.6252 | | 10.4 | 10.0 | 4.2 | 20.0 |
| 2-Chloronaphthalene | Ave | 1.299 | 1.300 | 0.8000 | 10.0 | 10.0 | 0.1 | 20.0 |
| 2-Nitroaniline | Ave | 0.6809 | 0.7060 | 0.0100 | 10.4 | 10.0 | 3.7 | 20.0 |
| Dimethyl phthalate | Ave | 1.317 | 1.386 | 0.0100 | 10.5 | 10.0 | 5.2 | 20.0 |
| 2,6-Dinitrotoluene | Ave | 0.3500 | 0.3738 | | 10.7 | 10.0 | 6.8 | 20.0 |
| 1,2-Dinitrobenzene | Ave | 0.1696 | 0.1812 | | 10.7 | 10.0 | 6.8 | 20.0 |
| Acenaphthylene | Ave | 1.895 | 1.945 | 0.9000 | 10.3 | 10.0 | 2.6 | 20.0 |
| 3-Nitroaniline | Ave | 0.3481 | 0.3590 | 0.0100 | 10.3 | 10.0 | 3.1 | 20.0 |
| 2,4-Dinitrophenol | Qua | | 0.1921 | 0.0100 | 17.3 | 20.0 | -13.5 | 20.0 |
| Acenaphthene | Ave | 1.245 | 1.261 | 0.9000 | 10.1 | 10.0 | 1.3 | 20.0 |
| 4-Nitrophenol | Ave | 0.3159 | 0.3171 | | 10.0 | 10.0 | 0.4 | 20.0 |
| 2,4-Dinitrotoluene | Ave | 0.4767 | 0.5054 | 0.2000 | 10.6 | 10.0 | 6.0 | 20.0 |
| Dibenzofuran | Ave | 1.605 | 1.662 | 0.8000 | 10.4 | 10.0 | 3.5 | 20.0 |
| 2,3,5,6-Tetrachlorophenol | Ave | 0.3217 | 0.3165 | | 9.84 | 10.0 | -1.6 | 20.0 |
| Diethyl phthalate | Ave | 1.396 | 1.440 | 0.0100 | 10.3 | 10.0 | 3.1 | 20.0 |
| 4-Chlorophenyl phenyl ether | Ave | 0.7485 | 0.7798 | 0.4000 | 10.4 | 10.0 | 4.2 | 20.0 |
| 4-Nitroaniline | Ave | 0.3791 | 0.4019 | 0.0100 | 10.6 | 10.0 | 6.0 | 20.0 |
| Fluorene | Ave | 1.390 | 1.418 | 0.9000 | 10.2 | 10.0 | 2.0 | 20.0 |
| 4,6-Dinitro-2-methylphenol | Ave | 0.1535 | 0.1451 | 0.0100 | 9.45 | 10.0 | -5.5 | 20.0 |
| N-Nitrosodiphenylamine | Ave | 0.6038 | 0.6374 | 0.0100 | 10.6 | 10.0 | 5.6 | 20.0 |
| 1,2-Diphenylhydrazine(as Azobenzene) | Ave | 1.540 | 1.576 | | 10.2 | 10.0 | 2.3 | 20.0 |
| Azobenzene | Ave | 1.540 | 1.578 | | 10.2 | 10.0 | 2.5 | 20.0 |
| 4-Bromophenyl phenyl ether | Ave | 0.2258 | 0.2308 | 0.1000 | 10.2 | 10.0 | 2.2 | 20.0 |
| Hexachlorobenzene | Ave | 0.1903 | 0.2013 | 0.1000 | 10.6 | 10.0 | 5.8 | 20.0 |
| Atrazine | Ave | 0.1973 | 0.2078 | 0.0100 | 10.5 | 10.0 | 5.3 | 20.0 |
| Pentachlorophenol | Ave | 0.1284 | 0.1255 | 0.0500 | 19.6 | 20.0 | -2.2 | 20.0 |
| Phenanthrene | Ave | 1.170 | 1.206 | 0.7000 | 10.3 | 10.0 | 3.1 | 20.0 |
| Anthracene | Ave | 1.210 | 1.245 | 0.7000 | 10.3 | 10.0 | 2.9 | 20.0 |
| Carbazole | Ave | 1.111 | 1.169 | 0.0100 | 10.5 | 10.0 | 5.2 | 20.0 |
| Di-n-butyl phthalate | Ave | 1.466 | 1.534 | 0.0100 | 10.5 | 10.0 | 4.7 | 20.0 |
| Fluoranthene | Ave | 1.306 | 1.383 | 0.6000 | 10.6 | 10.0 | 5.9 | 20.0 |
| Benzidine | Ave | 0.7729 | 0.7078 | | 9.16 | 10.0 | -8.4 | 20.0 |
| Pyrene | Ave | 1.481 | 1.529 | 0.6000 | 10.3 | 10.0 | 3.2 | 20.0 |
| Butyl benzyl phthalate | Ave | 0.7326 | 0.7446 | 0.0100 | 10.2 | 10.0 | 1.6 | 20.0 |
| 3,3'-Dimethoxybenzidine | Ave | 0.3514 | 0.3203 | | 9.12 | 10.0 | -8.8 | 20.0 |
| Bis(2-ethylhexyl) phthalate | Ave | 1.063 | 1.091 | 0.0100 | 10.3 | 10.0 | 2.6 | 20.0 |
| 4,4'-Methylene bis(2-chloroaniline) | Ave | 0.2734 | 0.2937 | | 10.7 | 10.0 | 7.4 | 20.0 |

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCV 240-51606/2 Calibration Date: 07/23/2012 08:38

Instrument ID: A4HP9 Calib Start Date: 07/18/2012 09:54

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 07/18/2012 12:29

Lab File ID: 20723002.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 3,3'-Dichlorobenzidine | Ave | 0.4863 | 0.4929 | 0.0100 | 10.1 | 10.0 | 1.4 | 20.0 |
| Benzo[a]anthracene | Ave | 1.366 | 1.379 | 0.8000 | 10.1 | 10.0 | 1.0 | 20.0 |
| Chrysene | Ave | 1.221 | 1.223 | 0.7000 | 10.0 | 10.0 | 0.1 | 20.0 |
| Di-n-octyl phthalate | Ave | 2.471 | 2.693 | 0.0100 | 10.9 | 10.0 | 9.0 | 20.0 |
| Benzo[b]fluoranthene | Ave | 1.714 | 1.910 | 0.7000 | 11.1 | 10.0 | 11.4 | 20.0 |
| Benzo[k]fluoranthene | Ave | 1.760 | 1.790 | 0.7000 | 10.2 | 10.0 | 1.7 | 20.0 |
| Benzo[a]pyrene | Ave | 1.592 | 1.689 | 0.7000 | 10.6 | 10.0 | 6.1 | 20.0 |
| Indeno[1,2,3-cd]pyrene | Ave | 1.693 | 1.830 | 0.5000 | 10.8 | 10.0 | 8.1 | 20.0 |
| Dibenzo(a,h)anthracene | Ave | 1.367 | 1.507 | 0.4000 | 11.0 | 10.0 | 10.3 | 20.0 |
| Benzo[g,h,i]perylene | Ave | 1.379 | 1.458 | 0.5000 | 10.6 | 10.0 | 5.7 | 20.0 |
| 2-Fluorophenol (Surr) | Ave | 1.765 | 1.816 | | 10.3 | 10.0 | 2.9 | 20.0 |
| Phenol-d5 (Surr) | Ave | 2.751 | 2.787 | | 10.1 | 10.0 | 1.3 | 20.0 |
| Nitrobenzene-d5 (Surr) | Ave | 0.8440 | 0.8683 | | 10.3 | 10.0 | 2.9 | 20.0 |
| 2-Fluorobiphenyl (Surr) | Ave | 1.543 | 1.583 | | 10.3 | 10.0 | 2.6 | 20.0 |
| 2,4,6-Tribromophenol (Surr) | Ave | 0.1173 | 0.1215 | | 10.4 | 10.0 | 3.6 | 20.0 |
| Terphenyl-d14 (Surr) | Ave | 0.8748 | 0.8956 | | 10.2 | 10.0 | 2.4 | 20.0 |

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab File ID: 20723006.D Lab Sample ID: MB 240-51373/21-A

Matrix: Solid Date Extracted: 07/19/2012 12:29

Instrument ID: A4HP9 Date Analyzed: 07/23/2012 09:56

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| | LCS 240-51373/22-A | 20723007.D | 07/23/2012 10:15 |
| MT-SS18-0-2 | 240-13070-2 | 20723018.D | 07/23/2012 13:44 |
| MT-SS18-8-10 | 240-13070-3 | 20723019.D | 07/23/2012 14:03 |
| MT-SB17-8-10 | 240-13070-6 | 20723020.D | 07/23/2012 14:22 |
| MT-SB17-0-2 | 240-13070-5 | 20723021.D | 07/23/2012 14:41 |
| MT-SB17-0-2 MS | 240-13070-5 MS | 20723022.D | 07/23/2012 15:00 |
| MT-SB17-0-2 MSD | 240-13070-5 MSD | 20723023.D | 07/23/2012 15:19 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13070-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-51373/21-A

Matrix: Solid | Lab File ID: 20723006.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3540C | Date Extracted: 07/19/2012 12:29

Sample wt/vol: 30.00(g) | Date Analyzed: 07/23/2012 09:56

Con. Extract Vol.: 2.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51606 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 50 | U | 50 | 27 |
| 123-91-1 | 1,4-Dioxane | 100 | U | 100 | 22 |
| 88-06-2 | 2,4,6-Trichlorophenol | 150 | U | 150 | 80 |
| 95-95-4 | 2,4,5-Trichlorophenol | 150 | U | 150 | 25 |
| 120-83-2 | 2,4-Dichlorophenol | 150 | U | 150 | 20 |
| 105-67-9 | 2,4-Dimethylphenol | 150 | U | 150 | 20 |
| 51-28-5 | 2,4-Dinitrophenol | 330 | U | 330 | 80 |
| 121-14-2 | 2,4-Dinitrotoluene | 200 | U | 200 | 27 |
| 91-58-7 | 2-Chloronaphthalene | 50 | U | 50 | 3.3 |
| 95-57-8 | 2-Chlorophenol | 50 | U | 50 | 27 |
| 91-57-6 | 2-Methylnaphthalene | 6.7 | U | 6.7 | 3.3 |
| 95-48-7 | 2-Methylphenol | 200 | U | 200 | 80 |
| 88-74-4 | 2-Nitroaniline | 200 | U | 200 | 9.1 |
| 88-75-5 | 2-Nitrophenol | 50 | U | 50 | 27 |
| 15831-10-4 | 3 & 4 Methylphenol | 400 | U | 400 | 20 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 100 | U | 100 | 18 |
| 99-09-2 | 3-Nitroaniline | 200 | U | 200 | 16 |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 150 | U | 150 | 80 |
| 101-55-3 | 4-Bromophenyl phenyl ether | 50 | U | 50 | 13 |
| 59-50-7 | 4-Chloro-3-methylphenol | 150 | U | 150 | 21 |
| 106-47-8 | 4-Chloroaniline | 150 | U | 150 | 17 |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 50 | U | 50 | 13 |
| 100-01-6 | 4-Nitroaniline | 200 | U | 200 | 26 |
| 83-32-9 | Acenaphthene | 6.7 | U | 6.7 | 3.3 |
| 208-96-8 | Acenaphthylene | 6.7 | U | 6.7 | 3.3 |
| 98-86-2 | Acetophenone | 100 | U | 100 | 9.2 |
| 120-12-7 | Anthracene | 6.7 | U | 6.7 | 3.3 |
| 1912-24-9 | Atrazine | 200 | U | 200 | 9.1 |
| 100-52-7 | Benzaldehyde | 100 | U | 100 | 12 |
| 56-55-3 | Benzo[a]anthracene | 6.7 | U | 6.7 | 3.3 |
| 50-32-8 | Benzo[a]pyrene | 6.7 | U | 6.7 | 3.3 |
| 205-99-2 | Benzo[b]fluoranthene | 6.7 | U | 6.7 | 3.3 |
| 191-24-2 | Benzo[g,h,i]perylene | 6.7 | U | 6.7 | 3.3 |
| 207-08-9 | Benzo[k]fluoranthene | 6.7 | U | 6.7 | 3.3 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13070-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-51373/21-A

Matrix: Solid | Lab File ID: 20723006.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3540C | Date Extracted: 07/19/2012 12:29

Sample wt/vol: 30.00(g) | Date Analyzed: 07/23/2012 09:56

Con. Extract Vol.: 2.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51606 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 111-91-1 | Bis(2-chloroethoxy)methane | 100 | U | 100 | 22 |
| 111-44-4 | Bis(2-chloroethyl)ether | 100 | U | 100 | 2.0 |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 50 | U | 50 | 19 |
| 85-68-7 | Butyl benzyl phthalate | 50 | U | 50 | 10 |
| 105-60-2 | Caprolactam | 330 | U | 330 | 37 |
| 86-74-8 | Carbazole | 50 | U | 50 | 27 |
| 218-01-9 | Chrysene | 6.7 | U | 6.7 | 1.1 |
| 84-74-2 | Di-n-butyl phthalate | 50 | U | 50 | 15 |
| 117-84-0 | Di-n-octyl phthalate | 50 | U | 50 | 27 |
| 53-70-3 | Dibenzo(a,h)anthracene | 6.7 | U | 6.7 | 3.3 |
| 132-64-9 | Dibenzofuran | 50 | U | 50 | 3.3 |
| 84-66-2 | Diethyl phthalate | 50 | U | 50 | 16 |
| 131-11-3 | Dimethyl phthalate | 50 | U | 50 | 17 |
| 206-44-0 | Fluoranthene | 6.7 | U | 6.7 | 3.3 |
| 86-73-7 | Fluorene | 6.7 | U | 6.7 | 3.3 |
| 118-74-1 | Hexachlorobenzene | 6.7 | U | 6.7 | 2.1 |
| 87-68-3 | Hexachlorobutadiene | 50 | U | 50 | 27 |
| 77-47-4 | Hexachlorocyclopentadiene | 330 | U | 330 | 27 |
| 67-72-1 | Hexachloroethane | 50 | U | 50 | 9.0 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 6.7 | U | 6.7 | 3.3 |
| 78-59-1 | Isophorone | 50 | U | 50 | 13 |
| 621-64-7 | N-Nitrosodi-n-propylamine | 50 | U | 50 | 27 |
| 62-75-9 | N-Nitrosodimethylamine | 100 | U | 100 | 16 |
| 86-30-6 | N-Nitrosodiphenylamine | 50 | U | 50 | 21 |
| 91-20-3 | Naphthalene | 6.7 | U | 6.7 | 3.3 |
| 98-95-3 | Nitrobenzene | 100 | U | 100 | 2.2 |
| 87-86-5 | Pentachlorophenol | 150 | U | 150 | 80 |
| 85-01-8 | Phenanthrene | 6.7 | U | 6.7 | 3.3 |
| 108-95-2 | Phenol | 50 | U | 50 | 27 |
| 129-00-0 | Pyrene | 6.7 | U | 6.7 | 3.3 |
| 108-60-1 | 2,2'-oxybis[1-chloropropane] | 100 | U | 100 | 9.5 |
| 606-20-2 | 2,6-Dinitrotoluene | 200 | U | 200 | 21 |
| 100-02-7 | 4-Nitrophenol | 330 | U | 330 | 80 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13070-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-51373/21-A

Matrix: Solid | Lab File ID: 20723006.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3540C | Date Extracted: 07/19/2012 12:29

Sample wt/vol: 30.00(g) | Date Analyzed: 07/23/2012 09:56

Con. Extract Vol.: 2.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51606 | Units: ug/Kg

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 1718-51-0 | Terphenyl-d14 (Surr) | 88 | | 41-119 |
| 4165-62-2 | Phenol-d5 (Surr) | 65 | | 28-110 |
| 4165-60-0 | Nitrobenzene-d5 (Surr) | 55 | | 24-112 |
| 367-12-4 | 2-Fluorophenol (Surr) | 65 | | 26-110 |
| 321-60-8 | 2-Fluorobiphenyl (Surr) | 52 | | 34-110 |
| 118-79-6 | 2,4,6-Tribromophenol (Surr) | 62 | | 10-118 |

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): RXI-5SILMS ID: 0.45 (mm)

| Client Sample ID | Lab Sample ID | 2FP # | PHL # | NBZ # | FBP # | TBP # | TPH # |
|---|---|---|---|---|---|---|---|
| MT-SS18-0-2 | 240-13070-2 | 68 | 71 | 54 | 46 | 68 | 84 |
| MT-SS18-8-10 | 240-13070-3 | 62 | 66 | 51 | 49 | 65 | 86 |
| MT-SB17-0-2 | 240-13070-5 | 69 | 75 | 58 | 58 | 81 | 85 |
| MT-SB17-8-10 | 240-13070-6 | 54 | 58 | 44 | 44 | 75 | 81 |
| | MB 240-51373/21-A | 65 | 65 | 55 | 52 | 62 | 88 |
| | LCS 240-51373/22-A | 61 | 63 | 51 | 49 | 67 | 84 |
| MT-SB17-0-2 MS | 240-13070-5 MS | 61 | 65 | 46 | 48 | 77 | 78 |
| MT-SB17-0-2 MSD | 240-13070-5 MSD | 56 | 63 | 50 | 53 | 76 | 80 |

| | QC LIMITS |
|---|---|
| 2FP = 2-Fluorophenol (Surr) | 26-110 |
| PHL = Phenol-d5 (Surr) | 28-110 |
| NBZ = Nitrobenzene-d5 (Surr) | 24-112 |
| FBP = 2-Fluorobiphenyl (Surr) | 34-110 |
| TBP = 2,4,6-Tribromophenol (Surr) | 10-118 |
| TPH = Terphenyl-dl4 (Surr) | 41-119 |

# Column to be used to flag recovery values

FORM II 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 20723007.D

Lab ID: LCS 240-51373/22-A Client ID:

| COMPOUND | SPIKE ADDED (ug/Kg) | LCS CONCENTRATION (ug/Kg) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| 1,1'-Biphenyl | 667 | 383 | 57 | 50-130 | |
| 1,4-Dioxane | 667 | 158 | 24 | 10-110 | |
| 2,4,6-Trichlorophenol | 667 | 415 | 62 | 37-110 | |
| 2,4,5-Trichlorophenol | 667 | 441 | 66 | 42-110 | |
| 2,4-Dichlorophenol | 667 | 418 | 63 | 40-110 | |
| 2,4-Dimethylphenol | 667 | 340 | 51 | 28-110 | |
| 2,4-Dinitrophenol | 667 | 354 | 53 | 10-110 | |
| 2,4-Dinitrotoluene | 667 | 475 | 71 | 55-116 | |
| 2-Chloronaphthalene | 667 | 345 | 52 | 46-110 | |
| 2-Chlorophenol | 667 | 395 | 59 | 39-110 | |
| 2-Methylnaphthalene | 667 | 385 | 58 | 46-110 | |
| 2-Methylphenol | 667 | 425 | 64 | 36-110 | |
| 2-Nitroaniline | 667 | 496 | 74 | 47-124 | |
| 2-Nitrophenol | 667 | 365 | 55 | 35-110 | |
| 3 & 4 Methylphenol | 1330 | 873 | 66 | 40-110 | |
| 3,3'-Dichlorobenzidine | 667 | 325 | 49 | 31-110 | |
| 3-Nitroaniline | 667 | 400 | 60 | 44-110 | |
| 4,6-Dinitro-2-methylphenol | 667 | 429 | 64 | 21-110 | |
| 4-Bromophenyl phenyl ether | 667 | 427 | 64 | 53-112 | |
| 4-Chloro-3-methylphenol | 667 | 466 | 70 | 42-110 | |
| 4-Chloroaniline | 667 | 305 | 46 | 25-110 | |
| 4-Chlorophenyl phenyl ether | 667 | 399 | 60 | 53-110 | |
| 4-Nitroaniline | 667 | 447 | 67 | 50-110 | |
| Acenaphthene | 667 | 394 | 59 | 46-110 | |
| Acenaphthylene | 667 | 412 | 62 | 47-110 | |
| Acetophenone | 667 | 406 | 61 | 50-130 | |
| Anthracene | 667 | 506 | 76 | 56-111 | |
| Atrazine | 667 | 700 | 105 | 50-130 | |
| Benzaldehyde | 667 | 333 | 50 | 10-130 | |
| Benzo[a]anthracene | 667 | 529 | 79 | 58-111 | |
| Benzo[a]pyrene | 667 | 480 | 72 | 44-115 | |
| Benzo[b]fluoranthene | 667 | 510 | 76 | 43-124 | |
| Benzo[g,h,i]perylene | 667 | 551 | 83 | 44-120 | |
| Benzo[k]fluoranthene | 667 | 550 | 82 | 38-122 | |
| Bis(2-chloroethoxy)methane | 667 | 348 | 52 | 42-110 | |
| Bis(2-chloroethyl)ether | 667 | 339 | 51 | 41-110 | |
| Bis(2-ethylhexyl) phthalate | 667 | 544 | 82 | 56-123 | |
| Butyl benzyl phthalate | 667 | 549 | 82 | 57-121 | |
| Caprolactam | 667 | 573 | 86 | 50-130 | |
| Carbazole | 667 | 535 | 80 | 56-115 | |
| Chrysene | 667 | 569 | 85 | 56-111 | |
| Di-n-butyl phthalate | 667 | 599 | 90 | 57-119 | |

# Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 20723007.D

Lab ID: LCS 240-51373/22-A Client ID:

| COMPOUND | SPIKE ADDED (ug/Kg) | LCS CONCENTRATION (ug/Kg) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| Di-n-octyl phthalate | 667 | 552 | 83 | 45-123 | |
| Dibenzo(a,h)anthracene | 667 | 564 | 85 | 45-122 | |
| Dibenzofuran | 667 | 444 | 67 | 50-110 | |
| Diethyl phthalate | 667 | 520 | 78 | 55-114 | |
| Dimethyl phthalate | 667 | 502 | 75 | 54-112 | |
| Fluoranthene | 667 | 563 | 84 | 55-118 | |
| Fluorene | 667 | 445 | 67 | 51-110 | |
| Hexachlorobenzene | 667 | 481 | 72 | 51-110 | |
| Hexachlorobutadiene | 667 | 339 | 51 | 39-110 | |
| Hexachlorocyclopentadiene | 667 | 235 J | 35 | 10-110 | |
| Hexachloroethane | 667 | 333 | 50 | 38-110 | |
| Indeno[1,2,3-cd]pyrene | 667 | 545 | 82 | 45-121 | |
| Isophorone | 667 | 396 | 59 | 46-117 | |
| N-Nitrosodi-n-propylamine | 667 | 405 | 61 | 40-114 | |
| N-Nitrosodimethylamine | 667 | 359 | 54 | 10-130 | |
| N-Nitrosodiphenylamine | 667 | 489 | 73 | 54-112 | |
| Naphthalene | 667 | 381 | 57 | 42-110 | |
| Nitrobenzene | 667 | 337 | 51 | 40-110 | |
| Pentachlorophenol | 667 | 383 | 57 | 10-110 | |
| Phenanthrene | 667 | 515 | 77 | 54-110 | |
| Phenol | 667 | 454 | 68 | 39-110 | |
| Pyrene | 667 | 532 | 80 | 58-113 | |
| 2,2'-oxybis[1-chloropropane] | 667 | 340 | 51 | 36-116 | |
| 2,6-Dinitrotoluene | 667 | 454 | 68 | 54-115 | |
| 4-Nitrophenol | 667 | 518 | 78 | 24-117 | |

# Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 20723022.D

Lab ID: 240-13070-5 MS Client ID: MT-SB17-0-2 MS

| COMPOUND | SPIKE ADDED (ug/Kg) | SAMPLE CONCENTRATION (ug/Kg) | MS CONCENTRATION (ug/Kg) | MS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|---|
| 1,1'-Biphenyl | 796 | 61 U | 462 | 58 | 50-130 | |
| 1,4-Dioxane | 796 | 120 U | 150 | 19 | 10-110 | |
| 2,4,6-Trichlorophenol | 796 | 180 U | 535 | 67 | 22-110 | |
| 2,4,5-Trichlorophenol | 796 | 180 U | 592 | 74 | 32-112 | |
| 2,4-Dichlorophenol | 796 | 180 U | 526 | 66 | 33-110 | |
| 2,4-Dimethylphenol | 796 | 25 J | 492 | 59 | 19-114 | |
| 2,4-Dinitrophenol | 796 | 400 U | 319 J | 40 | 10-110 | |
| 2,4-Dinitrotoluene | 796 | 240 U | 554 | 70 | 42-118 | |
| 2-Chloronaphthalene | 796 | 61 U | 416 | 52 | 40-110 | |
| 2-Chlorophenol | 796 | 61 U | 482 | 60 | 32-110 | |
| 2-Methylnaphthalene | 796 | 18 | 471 | 57 | 10-200 | |
| 2-Methylphenol | 796 | 240 U | 670 | 84 | 19-124 | |
| 2-Nitroaniline | 796 | 240 U | 635 | 80 | 31-141 | |
| 2-Nitrophenol | 796 | 61 U | 387 | 49 | 17-110 | |
| 3 & 4 Methylphenol | 1590 | 480 U | 1130 | 71 | 27-116 | |
| 3,3'-Dichlorobenzidine | 796 | 120 U | 188 | 24 | 10-110 | |
| 3-Nitroaniline | 796 | 240 U | 416 | 52 | 24-110 | |
| 4,6-Dinitro-2-methylphenol | 796 | 180 U | 339 | 43 | 10-110 | |
| 4-Bromophenyl phenyl ether | 796 | 61 U | 487 | 61 | 44-120 | |
| 4-Chloro-3-methylphenol | 796 | 180 U | 634 | 80 | 32-117 | |
| 4-Chloroaniline | 796 | 180 U | 276 | 35 | 11-110 | |
| 4-Chlorophenyl phenyl ether | 796 | 61 U | 497 | 62 | 47-116 | |
| 4-Nitroaniline | 796 | 240 U | 464 | 58 | 23-124 | |
| Acenaphthene | 796 | 8.1 U | 500 | 63 | 10-200 | |
| Acenaphthylene | 796 | 15 | 529 | 65 | 10-200 | |
| Acetophenone | 796 | 25 J | 495 | 59 | 50-130 | |
| Anthracene | 796 | 25 | 591 | 71 | 10-200 | |
| Atrazine | 796 | 240 U | 737 | 93 | 50-130 | |
| Benzaldehyde | 796 | 120 U | 411 | 52 | 10-130 | |
| Benzo[a]anthracene | 796 | 110 | 690 | 72 | 10-200 | |
| Benzo[a]pyrene | 796 | 150 | 662 | 64 | 10-200 | |
| Benzo[b]fluoranthene | 796 | 190 | 720 | 67 | 10-200 | |
| Benzo[g,h,i]perylene | 796 | 130 | 681 | 69 | 10-200 | |
| Benzo[k]fluoranthene | 796 | 99 | 711 | 77 | 10-200 | |
| Bis(2-chloroethoxy)methane | 796 | 120 U | 390 | 49 | 36-110 | |
| Bis(2-chloroethyl)ether | 796 | 120 U | 419 | 53 | 32-118 | |
| Bis(2-ethylhexyl) phthalate | 796 | 38 J | 641 | 76 | 10-200 | |
| Butyl benzyl phthalate | 796 | 61 U | 664 | 83 | 43-138 | |
| Caprolactam | 796 | 400 U | 722 | 91 | 50-130 | |
| Carbazole | 796 | 61 U | 575 | 72 | 10-162 | |
| Chrysene | 796 | 160 | 760 | 76 | 10-200 | |
| Di-n-butyl phthalate | 796 | 35 J | 635 | 75 | 31-145 | |

# Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 20723022.D

Lab ID: 240-13070-5 MS Client ID: MT-SB17-0-2 MS

| COMPOUND | SPIKE ADDED (ug/Kg) | SAMPLE CONCENTRATION (ug/Kg) | MS CONCENTRATION (ug/Kg) | MS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|---|
| Di-n-octyl phthalate | 796 | 61 U | 677 | 85 | 10-182 | |
| Dibenzo(a,h)anthracene | 796 | 28 | 664 | 80 | 10-200 | |
| Dibenzofuran | 796 | 61 U | 560 | 70 | 10-200 | |
| Diethyl phthalate | 796 | 61 U | 634 | 80 | 48-118 | |
| Dimethyl phthalate | 796 | 61 U | 595 | 75 | 47-116 | |
| Fluoranthene | 796 | 190 | 751 | 70 | 10-200 | |
| Fluorene | 796 | 8.1 U | 574 | 72 | 10-187 | |
| Hexachlorobenzene | 796 | 8.1 U | 563 | 71 | 37-122 | |
| Hexachlorobutadiene | 796 | 61 U | 352 | 44 | 30-110 | |
| Hexachlorocyclopentadiene | 796 | 400 U | 390 U | 0 | 10-110 | F |
| Hexachloroethane | 796 | 61 U | 367 | 46 | 13-110 | |
| Indeno[1,2,3-cd]pyrene | 796 | 98 | 675 | 73 | 10-200 | |
| Isophorone | 796 | 61 U | 452 | 57 | 32-129 | |
| N-Nitrosodi-n-propylamine | 796 | 61 U | 486 | 61 | 30-121 | |
| N-Nitrosodimethylamine | 797 | 120 U | 371 | 47 | 10-130 | |
| N-Nitrosodiphenylamine | 796 | 61 U | 558 | 70 | 10-169 | |
| Naphthalene | 796 | 30 | 445 | 52 | 10-200 | |
| Nitrobenzene | 796 | 120 U | 384 | 48 | 33-111 | |
| Pentachlorophenol | 796 | 180 U | 455 | 57 | 10-182 | |
| Phenanthrene | 796 | 65 | 621 | 70 | 10-200 | |
| Phenol | 796 | 37 J | 502 | 58 | 10-144 | |
| Pyrene | 796 | 210 | 749 | 67 | 10-200 | |
| 2,2'-oxybis[1-chloropropane] | 796 | 120 U | 392 | 49 | 25-124 | |
| 2,6-Dinitrotoluene | 796 | 240 U | 524 | 66 | 28-137 | |
| 4-Nitrophenol | 796 | 400 U | 720 | 90 | 10-125 | |

# Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 20723023.D

Lab ID: 240-13070-5 MSD Client ID: MT-SB17-0-2 MSD

| COMPOUND | SPIKE ADDED (ug/Kg) | MSD CONCENTRATION (ug/Kg) | MSD % REC | % RPD | QC LIMITS RPD | QC LIMITS REC | # |
|---|---|---|---|---|---|---|---|
| 1,1'-Biphenyl | 789 | 498 | 63 | 8 | 30 | 50-130 | |
| 1,4-Dioxane | 789 | 148 | 19 | 2 | 30 | 10-110 | |
| 2,4,6-Trichlorophenol | 789 | 537 | 68 | 0 | 30 | 22-110 | |
| 2,4,5-Trichlorophenol | 789 | 646 | 82 | 9 | 30 | 32-112 | |
| 2,4-Dichlorophenol | 789 | 548 | 69 | 4 | 30 | 33-110 | |
| 2,4-Dimethylphenol | 789 | 555 | 67 | 12 | 30 | 19-114 | |
| 2,4-Dinitrophenol | 789 | 328 J | 42 | 3 | 30 | 10-110 | |
| 2,4-Dinitrotoluene | 789 | 613 | 78 | 10 | 30 | 42-118 | |
| 2-Chloronaphthalene | 789 | 444 | 56 | 7 | 30 | 40-110 | |
| 2-Chlorophenol | 789 | 462 | 59 | 4 | 30 | 32-110 | |
| 2-Methylnaphthalene | 789 | 504 | 62 | 7 | 30 | 10-200 | |
| 2-Methylphenol | 789 | 605 | 77 | 10 | 30 | 19-124 | |
| 2-Nitroaniline | 789 | 670 | 85 | 5 | 30 | 31-141 | |
| 2-Nitrophenol | 789 | 414 | 52 | 7 | 30 | 17-110 | |
| 3 & 4 Methylphenol | 1580 | 1100 | 70 | 2 | 30 | 27-116 | |
| 3,3'-Dichlorobenzidine | 789 | 181 | 23 | 4 | 30 | 10-110 | |
| 3-Nitroaniline | 789 | 426 | 54 | 2 | 30 | 24-110 | |
| 4,6-Dinitro-2-methylphenol | 789 | 339 | 43 | 0 | 30 | 10-110 | |
| 4-Bromophenyl phenyl ether | 789 | 508 | 64 | 4 | 30 | 44-120 | |
| 4-Chloro-3-methylphenol | 789 | 675 | 86 | 6 | 30 | 32-117 | |
| 4-Chloroaniline | 789 | 280 | 36 | 1 | 30 | 11-110 | |
| 4-Chlorophenyl phenyl ether | 789 | 532 | 67 | 7 | 30 | 47-116 | |
| 4-Nitroaniline | 789 | 492 | 62 | 6 | 30 | 23-124 | |
| Acenaphthene | 789 | 543 | 69 | 8 | 30 | 10-200 | |
| Acenaphthylene | 789 | 559 | 69 | 5 | 30 | 10-200 | |
| Acetophenone | 789 | 476 | 57 | 4 | 30 | 50-130 | |
| Anthracene | 789 | 642 | 78 | 8 | 30 | 10-200 | |
| Atrazine | 789 | 783 | 99 | 6 | 30 | 50-130 | |
| Benzaldehyde | 789 | 380 | 48 | 8 | 30 | 10-130 | |
| Benzo[a]anthracene | 789 | 747 | 80 | 8 | 30 | 10-200 | |
| Benzo[a]pyrene | 789 | 745 | 75 | 12 | 30 | 10-200 | |
| Benzo[b]fluoranthene | 789 | 860 | 85 | 18 | 30 | 10-200 | |
| Benzo[g,h,i]perylene | 789 | 770 | 81 | 12 | 30 | 10-200 | |
| Benzo[k]fluoranthene | 789 | 782 | 87 | 10 | 30 | 10-200 | |
| Bis(2-chloroethoxy)methane | 789 | 421 | 53 | 8 | 30 | 36-110 | |
| Bis(2-chloroethyl)ether | 789 | 406 | 51 | 3 | 30 | 32-118 | |
| Bis(2-ethylhexyl) phthalate | 789 | 699 | 84 | 9 | 30 | 10-200 | |
| Butyl benzyl phthalate | 789 | 675 | 86 | 2 | 30 | 43-138 | |
| Caprolactam | 789 | 759 | 96 | 5 | 30 | 50-130 | |
| Carbazole | 789 | 587 | 74 | 2 | 30 | 10-162 | |
| Chrysene | 789 | 829 | 85 | 9 | 30 | 10-200 | |
| Di-n-butyl phthalate | 789 | 686 | 82 | 8 | 30 | 31-145 | |

# Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 20723023.D

Lab ID: 240-13070-5 MSD Client ID: MT-SB17-0-2 MSD

| COMPOUND | SPIKE ADDED (ug/Kg) | MSD CONCENTRATION (ug/Kg) | MSD % REC | % RPD | QC LIMITS RPD | QC LIMITS REC | # |
|---|---|---|---|---|---|---|---|
| Di-n-octyl phthalate | 789 | 687 | 87 | 1 | 30 | 10-182 | |
| Dibenzo(a,h)anthracene | 789 | 704 | 86 | 6 | 30 | 10-200 | |
| Dibenzofuran | 789 | 598 | 76 | 7 | 30 | 10-200 | |
| Diethyl phthalate | 789 | 665 | 84 | 5 | 30 | 48-118 | |
| Dimethyl phthalate | 789 | 632 | 80 | 6 | 30 | 47-116 | |
| Fluoranthene | 789 | 892 | 89 | 17 | 30 | 10-200 | |
| Fluorene | 789 | 612 | 78 | 6 | 30 | 10-187 | |
| Hexachlorobenzene | 789 | 577 | 73 | 2 | 30 | 37-122 | |
| Hexachlorobutadiene | 789 | 369 | 47 | 5 | 30 | 30-110 | |
| Hexachlorocyclopentadiene | 789 | 390 U | 0 | NC | 30 | 10-110 | F |
| Hexachloroethane | 789 | 347 | 44 | 6 | 30 | 13-110 | |
| Indeno[1,2,3-cd]pyrene | 789 | 757 | 84 | 11 | 30 | 10-200 | |
| Isophorone | 789 | 482 | 61 | 6 | 30 | 32-129 | |
| N-Nitrosodi-n-propylamine | 789 | 459 | 58 | 6 | 30 | 30-121 | |
| N-Nitrosodimethylamine | 790 | 313 | 40 | 17 | 30 | 10-130 | |
| N-Nitrosodiphenylamine | 789 | 594 | 75 | 6 | 30 | 10-169 | |
| Naphthalene | 789 | 466 | 55 | 5 | 30 | 10-200 | |
| Nitrobenzene | 789 | 404 | 51 | 5 | 30 | 33-111 | |
| Pentachlorophenol | 789 | 422 | 54 | 7 | 30 | 10-182 | |
| Phenanthrene | 789 | 690 | 79 | 11 | 30 | 10-200 | |
| Phenol | 789 | 493 | 58 | 2 | 30 | 10-144 | |
| Pyrene | 789 | 821 | 77 | 9 | 30 | 10-200 | |
| 2,2'-oxybis[1-chloropropane] | 789 | 383 | 49 | 2 | 30 | 25-124 | |
| 2,6-Dinitrotoluene | 789 | 575 | 73 | 9 | 30 | 28-137 | |
| 4-Nitrophenol | 789 | 736 | 93 | 2 | 30 | 10-125 | |

# Column to be used to flag recovery and RPD values

FORM III 8270D

FORM VIII

GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Sample No.: STD6 240-51126/10 Date Analyzed: 07/18/2012 12:29

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 20718010.D Heated Purge: (Y/N) N

Calibration ID: 10168

| | | DCB | | NPT | | ANT | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | | 125995 | 3.89 | 522239 | 4.85 | 307568 | 6.15 |
| UPPER LIMIT | | 251990 | 4.39 | 1044478 | 5.35 | 615136 | 6.65 |
| LOWER LIMIT | | 62998 | 3.39 | 261120 | 4.35 | 153784 | 5.65 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| ICV 240-51126/11 | | 121149 | 3.90 | 485431 | 4.85 | 288798 | 6.15 |
| CCV 240-51606/2 CCVIS | | 138824 | 3.68 | 539531 | 4.65 | 316845 | 5.94 |

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270D

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Sample No.: STD6 240-51126/10  Date Analyzed: 07/18/2012 12:29

Instrument ID: A4HP9  GC Column: RXI-5SILMS  ID: 0.45(mm)

Lab File ID (Standard): 20718010.D  Heated Purge: (Y/N) N

Calibration ID: 10168

| | | PHN | | CRY | | PRY | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | | 516084 | 7.24 | 470428 | 9.21 | 328489 | 10.62 |
| UPPER LIMIT | | 1032168 | 7.74 | 940856 | 9.71 | 656978 | 11.12 |
| LOWER LIMIT | | 258042 | 6.74 | 235214 | 8.71 | 164245 | 10.12 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| ICV 240-51126/11 | | 477640 | 7.24 | 428408 | 9.20 | 309480 | 10.62 |
| CCV 240-51606/2 CCVIS | | 527172 | 7.03 | 488380 | 8.98 | 340928 | 10.26 |

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270D

FORM VIII

GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Sample No.: CCV 240-51606/2 Date Analyzed: 07/23/2012 08:38

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 20723002.D Heated Purge: (Y/N) N

Calibration ID: 10172

| | | DCB | | NPT | | ANT | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 138824 | 3.68 | 539531 | 4.65 | 316845 | 5.94 |
| UPPER LIMIT | | 277648 | 4.18 | 1079062 | 5.15 | 633690 | 6.44 |
| LOWER LIMIT | | 69412 | 3.18 | 269766 | 4.15 | 158423 | 5.44 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| MB 240-51373/21-A | | 116559 | 3.68 | 489621 | 4.65 | 287780 | 5.94 |
| LCS 240-51373/22-A | | 106617 | 3.69 | 450970 | 4.65 | 272015 | 5.94 |
| 240-13070-2 | MT-SS18-0-2 | 90825 | 3.68 | 391554 | 4.65 | 263935 | 5.94 |
| 240-13070-3 | MT-SS18-8-10 | 94637 | 3.68 | 409176 | 4.64 | 259981 | 5.94 |
| 240-13070-6 | MT-SB17-8-10 | 93137 | 3.68 | 404810 | 4.65 | 262370 | 5.94 |
| 240-13070-5 | MT-SB17-0-2 | 97976 | 3.68 | 421859 | 4.64 | 270081 | 5.94 |
| 240-13070-5 MS | MT-SB17-0-2 MS | 84384 | 3.69 | 391920 | 4.65 | 252691 | 5.95 |
| 240-13070-5 MSD | MT-SB17-0-2 MSD | 87943 | 3.68 | 370857 | 4.65 | 242886 | 5.94 |

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270D

FORM VIII

GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Sample No.: CCV 240-51606/2 Date Analyzed: 07/23/2012 08:38

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 20723002.D Heated Purge: (Y/N) N

Calibration ID: 10172

| | | PHN | | CRY | | PRY | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 527172 | 7.03 | 488380 | 8.98 | 340928 | 10.26 |
| UPPER LIMIT | | 1054344 | 7.53 | 976760 | 9.48 | 681856 | 10.76 |
| LOWER LIMIT | | 263586 | 6.53 | 244190 | 8.48 | 170464 | 9.76 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| MB 240-51373/21-A | | 488312 | 7.02 | 427663 | 8.96 | 298803 | 10.23 |
| LCS 240-51373/22-A | | 443351 | 7.02 | 415436 | 8.96 | 299927 | 10.24 |
| 240-13070-2 | MT-SS18-0-2 | 443156 | 7.02 | 413955 | 8.97 | 296554 | 10.25 |
| 240-13070-3 | MT-SS18-8-10 | 457521 | 7.02 | 415615 | 8.96 | 297130 | 10.24 |
| 240-13070-6 | MT-SB17-8-10 | 456082 | 7.02 | 418388 | 8.96 | 309829 | 10.25 |
| 240-13070-5 | MT-SB17-0-2 | 463616 | 7.02 | 416782 | 8.97 | 294812 | 10.25 |
| 240-13070-5 MS | MT-SB17-0-2 MS | 452786 | 7.02 | 415638 | 8.97 | 296183 | 10.25 |
| 240-13070-5 MSD | MT-SB17-0-2 MSD | 432773 | 7.02 | 410815 | 8.97 | 290882 | 10.25 |

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270D

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Instrument ID: YPID Start Date: 06/29/2012 12:53

Analysis Batch Number: 49409 End Date: 06/29/2012 18:14

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| ZZZZZ | | 06/29/2012 12:53 | 1 | | RTX-VRX 0.45(mm) |
| STD1 240-49409/4 IC | | 06/29/2012 13:39 | 1 | YF062904.D | RTX-VRX 0.45(mm) |
| STD2 240-49409/5 IC | | 06/29/2012 14:26 | 1 | YF062905.D | RTX-VRX 0.45(mm) |
| STD3 240-49409/6 ICRT | | 06/29/2012 15:12 | 1 | YF062906.D | RTX-VRX 0.45(mm) |
| STD4 240-49409/7 IC | | 06/29/2012 15:59 | 1 | YF062907.D | RTX-VRX 0.45(mm) |
| STD5 240-49409/8 IC | | 06/29/2012 16:45 | 1 | YF062908.D | RTX-VRX 0.45(mm) |
| STD6 240-49409/9 IC | | 06/29/2012 17:30 | 1 | YF062909.D | RTX-VRX 0.45(mm) |
| ICV 240-49409/10 | | 06/29/2012 18:14 | 1 | YF062910.D | RTX-VRX 0.45(mm) |

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Instrument ID: YPID Start Date: 07/18/2012 15:29

Analysis Batch Number: 51212 End Date: 07/19/2012 05:57

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| CCV 240-51212/5 CCVRT | | 07/18/2012 15:29 | 1 | YF071805.D | RTX-VRX 0.45(mm) |
| MB 240-51212/6 | | 07/18/2012 16:09 | 1 | YF071806.D | RTX-VRX 0.45(mm) |
| LCS 240-51212/7 | | 07/18/2012 16:49 | 1 | YF071807.D | RTX-VRX 0.45(mm) |
| 240-13070-2 | MT-SS18-0-2 | 07/18/2012 20:06 | 2 | YF071812.D | RTX-VRX 0.45(mm) |
| 240-13070-3 | MT-SS18-8-10 | 07/18/2012 20:45 | 1 | YF071813.D | RTX-VRX 0.45(mm) |
| 240-13070-5 | MT-SB17-0-2 | 07/18/2012 21:23 | 1 | YF071814.D | RTX-VRX 0.45(mm) |
| 240-13070-6 | MT-SB17-8-10 | 07/18/2012 22:01 | 1 | YF071815.D | RTX-VRX 0.45(mm) |
| CCV 240-51212/16 | | 07/18/2012 22:42 | 1 | YF071816.D | RTX-VRX 0.45(mm) |
| ZZZZZ | | 07/19/2012 02:02 | 1 | | RTX-VRX 0.45(mm) |
| ZZZZZ | | 07/19/2012 02:41 | 1 | | RTX-VRX 0.45(mm) |
| ZZZZZ | | 07/19/2012 03:20 | 1 | | RTX-VRX 0.45(mm) |
| ZZZZZ | | 07/19/2012 04:00 | 1 | | RTX-VRX 0.45(mm) |
| ZZZZZ | | 07/19/2012 04:39 | 1 | | RTX-VRX 0.45(mm) |
| ZZZZZ | | 07/19/2012 05:18 | 1 | | RTX-VRX 0.45(mm) |
| CCV 240-51212/27 | | 07/19/2012 05:57 | 1 | | RTX-VRX 0.45(mm) |

FORM VI
GC VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-13070-1  Analy Batch No.: 49409

SDG No.:

Instrument ID: YPID  GC Column: RTX-VRX  ID: 0.45(mm)  Heated Purge: (Y/N) N

Calibration Start Date: 06/29/2012 13:39  Calibration End Date: 06/29/2012 17:30  Calibration ID: 9879

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-49409/4 | YF062904.D |
| Level 2 | STD2 240-49409/5 | YF062905.D |
| Level 3 | STD3 240-49409/6 | YF062906.D |
| Level 4 | STD4 240-49409/7 | YF062907.D |
| Level 5 | STD5 240-49409/8 | YF062908.D |
| Level 6 | STD6 240-49409/9 | YF062909.D |

| ANALYTE | CF | | | | CURVE TYPE | COEFFICIENT | | | # | MIN CF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1 LVL 5 | LVL 2 LVL 6 | LVL 3 | LVL 4 | | B | M1 | M2 | | | | | | | | |
| Total Petroleum Hydrocarbons (C6-C10) | 396398 309079 | 363256 311555 | 337661 | 315467 | Ave | | 338902.687 | | | | 10.0 | | 20.0 | | | |
| C6-C12 | 482905 340285 | 415902 342255 | 378953 | 348850 | Ave | | 384858.436 | | | | 15.0 | | 20.0 | | | |
| Trifluorotoluene (Surr) | 284961 354937 | 292193 411371 | 314695 | 335646 | Ave | | 332300.483 | | | | 14.0 | | 20.0 | | | |

Note: The ml coefficient is the same as Ave CF for an Ave curve type.

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab Sample ID: ICV 240-49409/10 Calibration Date: 06/29/2012 18:14

Instrument ID: YPID Calib Start Date: 06/29/2012 13:39

GC Column: RTX-VRX ID: 0.45(mm) Calib End Date: 06/29/2012 17:30

Lab File ID: YF062910.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C6-C10) | Ave | 338903 | 340389 | | 804 | 800 | 0.4 | 20.0 |
| C6-C12 | Ave | 384858 | 387501 | | 806 | 800 | 0.7 | 20.0 |
| Trifluorotoluene (Surr) | Ave | 332300 | 330492 | | 9.95 | 10.0 | -0.5 | 20.0 |

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab Sample ID: ICV 240-49409/10 Calibration Date: 06/29/2012 18:14

Instrument ID: YPID Calib Start Date: 06/29/2012 13:39

GC Column: RTX-VRX ID: 0.45(mm) Calib End Date: 06/29/2012 17:30

Lab File ID: YF062910.D Heated Purge: (Y/N) N

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | TO | FROM |
| Total Petroleum Hydrocarbons (C6-C10) | 11.79 | 4.77 | 18.80 |
| C6-C12 | 13.38 | 4.87 | 21.89 |
| Trifluorotoluene (Surr) | 9.75 | 9.49 | 9.99 |

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCV 240-51212/5  Calibration Date: 07/18/2012 15:29

Instrument ID: YPID  Calib Start Date: 06/29/2012 13:39

GC Column: RTX-VRX  ID: 0.45(mm)  Calib End Date: 06/29/2012 17:30

Lab File ID: YF071805.D  Conc. Units: ug/L  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C6-C10) | Ave | 338903 | 308811 | | 729 | 800 | -8.9 | 20.0 |
| C6-C12 | Ave | 384858 | 343108 | | 713 | 800 | -10.8 | 20.0 |
| Trifluorotoluene (Surr) | Ave | 332300 | 353218 | | 10.6 | 10.0 | 6.3 | 20.0 |

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCV 240-51212/5 Calibration Date: 07/18/2012 15:29

Instrument ID: YPID Calib Start Date: 06/29/2012 13:39

GC Column: RTX-VRX ID: 0.45(mm) Calib End Date: 06/29/2012 17:30

Lab File ID: YF071805.D Heated Purge: (Y/N) N

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | TO | FROM |
| Total Petroleum Hydrocarbons (C6-C10) | 11.79 | 4.79 | 18.79 |
| C6-C12 | 13.46 | 4.89 | 22.02 |
| Trifluorotoluene (Surr) | 9.75 | 9.50 | 10.00 |

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCV 240-51212/16 Calibration Date: 07/18/2012 22:42

Instrument ID: YPID Calib Start Date: 06/29/2012 13:39

GC Column: RTX-VRX ID: 0.45(mm) Calib End Date: 06/29/2012 17:30

Lab File ID: YF071816.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C6-C10) | Ave | 338903 | 277442 | | 655 | 800 | -18.1 | 20.0 |
| C6-C12 | Ave | 384858 | 308426 | | 641 | 800 | -19.9 | 20.0 |
| Trifluorotoluene (Surr) | Ave | 332300 | 315730 | | 9.50 | 10.0 | -5.0 | 20.0 |

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCV 240-51212/16 Calibration Date: 07/18/2012 22:42

Instrument ID: YPID Calib Start Date: 06/29/2012 13:39

GC Column: RTX-VRX ID: 0.45(mm) Calib End Date: 06/29/2012 17:30

Lab File ID: YF071816.D Heated Purge: (Y/N) N

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | TO | FROM |
| Total Petroleum Hydrocarbons (C6-C10) | 11.79 | 4.79 | 18.79 |
| C6-C12 | 13.46 | 4.89 | 22.02 |
| Trifluorotoluene (Surr) | 9.75 | 9.50 | 10.00 |

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab Sample ID: MB 240-51212/6

Matrix: Solid Date Extracted: 07/18/2012 16:09

Lab File ID:(1) YF071806.D Lab File ID:(2)

Date Analyzed:(1) 07/18/2012 16:09 Date Analyzed:(2)

Instrument ID:(1) YPID Instrument ID:(2)

GC Column:(1) RTX-VRX ID: 0.45(mm) GC Column:(2) ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | DATE ANALYZED 1 | DATE ANALYZED 2 |
|---|---|---|---|
| | LCS 240-51212/7 | 07/18/2012 16:49 | |
| MT-SS18-0-2 | 240-13070-2 | 07/18/2012 20:06 | |
| MT-SS18-8-10 | 240-13070-3 | 07/18/2012 20:45 | |
| MT-SB17-0-2 | 240-13070-5 | 07/18/2012 21:23 | |
| MT-SB17-8-10 | 240-13070-6 | 07/18/2012 22:01 | |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Client Sample ID:  Lab Sample ID: MB 240-51212/6

Matrix: Solid  Lab File ID: YF071806.D

Analysis Method: 8015C  Date Collected:

Sample wt/vol: 5(g)  Date Analyzed: 07/18/2012 16:09

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-VRX  ID: 0.45(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 51212  Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 8006-61-9 | Total Petroleum Hydrocarbons (C6-C10) | 100 | U | 100 | 46 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 98-08-8 | Trifluorotoluene (Surr) | 88 | | 10-150 |

FORM II
GC VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): RTX-VRX ID: 0.45 (mm)

| Client Sample ID | Lab Sample ID | TFT1 # |
|---|---|---|
| MT-SS18-0-2 | 240-13070-2 | 78 |
| MT-SS18-8-10 | 240-13070-3 | 83 |
| MT-SB17-0-2 | 240-13070-5 | 74 |
| MT-SB17-8-10 | 240-13070-6 | 85 |
| | MB 240-51212/6 | 88 |
| | LCS 240-51212/7 | 99 |

| | QC LIMITS |
|---|---|
| TFT = Trifluorotoluene (Surr) | 10-150 |

# Column to be used to flag recovery values

FORM II 8015C

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: YF071807.D

Lab ID: LCS 240-51212/7 Client ID:

| COMPOUND | SPIKE ADDED (ug/Kg) | LCS CONCENTRATION (ug/Kg) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C6-C10) | 800 | 799 | 100 | 60-142 | |

# Column to be used to flag recovery and RPD values

FORM III 8015C

FORM VIII
GC VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Sample No.: CCV 240-51212/5  Date Analyzed: 07/18/2012 15:29

Instrument ID: YPID  GC Column: RTX-VRX  ID: 0.45(mm)

Lab File ID (Standard): YF071805.D  Heated Purge: (Y/N) N

Calibration ID: 9879

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

| | | | | TFT RT # | | |
|---|---|---|---|---|---|---|
| CONTINUING CALIBRATION SURROGATE | | | | 9.75 | | |
| UPPER LIMIT | | | | 9.85 | | |
| LOWER LIMIT | | | | 9.65 | | |
| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | LAB FILE ID | | | |
| CCV 240-51212/5 CCVRT | | 07/18/2012 15:29 | YF071805.D | 9.75 | | |
| MB 240-51212/6 | | 07/18/2012 16:09 | YF071806.D | 9.75 | | |
| LCS 240-51212/7 | | 07/18/2012 16:49 | YF071807.D | 9.76 | | |
| 240-13070-2 | MT-SS18-0-2 | 07/18/2012 20:06 | YF071812.D | 9.75 | | |
| 240-13070-3 | MT-SS18-8-10 | 07/18/2012 20:45 | YF071813.D | 9.75 | | |
| 240-13070-5 | MT-SB17-0-2 | 07/18/2012 21:23 | YF071814.D | 9.75 | | |
| 240-13070-6 | MT-SB17-8-10 | 07/18/2012 22:01 | YF071815.D | 9.75 | | |
| CCV 240-51212/16 | | 07/18/2012 22:42 | YF071816.D | 9.75 | | |

TFT = Trifluorotoluene (Surr)

TFT RT Limit = ± 0.1 minutes of surrogate RT

# Column used to flag values outside QC limits

FORM VIII 8015C

DIESEL RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Instrument ID: A2HP5R Start Date: 06/12/2012 10:28

Analysis Batch Number: 47065 End Date: 06/12/2012 15:37

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| STD1 240-47065/4 IC | | 06/12/2012 10:28 | 1 | P5B61204.D | |
| STD2 240-47065/5 IC | | 06/12/2012 10:58 | 1 | P5B61205.D | |
| STD3 240-47065/6 ICRT | | 06/12/2012 11:30 | 1 | P5B61206.D | |
| STD4 240-47065/7 IC | | 06/12/2012 12:01 | 1 | P5B61207.D | |
| STD5 240-47065/8 IC | | 06/12/2012 12:32 | 1 | P5B61208.D | |
| ICV 240-47065/9 | | 06/12/2012 13:03 | 1 | P5B61209.D | |
| STD1 240-47065/10 IC | | 06/12/2012 13:34 | 1 | | |
| STD2 240-47065/11 IC | | 06/12/2012 14:05 | 1 | | |
| STD3 240-47065/12 IC | | 06/12/2012 14:35 | 1 | | |
| STD4 240-47065/13 IC | | 06/12/2012 15:06 | 1 | | |
| STD5 240-47065/14 IC | | 06/12/2012 15:37 | 1 | | |

DIESEL RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Instrument ID: A2HP5R Start Date: 07/25/2012 13:32

Analysis Batch Number: 51968 End Date: 07/25/2012 19:38

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| CCV 240-51968/4 CCVRT | | 07/25/2012 13:32 | 1 | P5B72504.D | |
| CCV 240-51968/7 | | 07/25/2012 15:03 | 1 | P5B72507.D | |
| 240-13070-2 | MT-SS18-0-2 | 07/25/2012 15:34 | 1 | P5B72508.D | |
| 240-13070-2 MS | MT-SS18-0-2 MS | 07/25/2012 16:04 | 1 | P5B72509.D | |
| 240-13070-2 MSD | MT-SS18-0-2 MSD | 07/25/2012 16:35 | 1 | P5B72510.D | |
| 240-13070-3 | MT-SS18-8-10 | 07/25/2012 17:05 | 1 | P5B72511.D | |
| ZZZZZ | | 07/25/2012 17:36 | 10 | | |
| ZZZZZ | | 07/25/2012 18:07 | 5 | | |
| LCS 240-51519/8-A | | 07/25/2012 18:37 | 1 | P5B72514.D | |
| MB 240-51519/7-A | | 07/25/2012 19:08 | 1 | P5B72515.D | |
| CCV 240-51968/16 | | 07/25/2012 19:38 | 1 | P5B72516.D | |

DIESEL RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Instrument ID: A2HP5R Start Date: 07/26/2012 15:38

Analysis Batch Number: 52120 End Date: 07/26/2012 17:11

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| CCV 240-52120/4 CCVRT | | 07/26/2012 15:38 | 1 | P5B72604.D | |
| 240-13070-5 | MT-SB17-0-2 | 07/26/2012 16:09 | 1 | P5B72605.D | |
| 240-13070-6 | MT-SB17-8-10 | 07/26/2012 16:40 | 1 | P5B72606.D | |
| CCV 240-52120/7 | | 07/26/2012 17:11 | 1 | P5B72607.D | |

FORM VI
DIESEL RANGE ORGANICS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-13070-1  Analy Batch No.: 47065

SDG No.:

Instrument ID: A2HP5R  GC Column:  ID:  Heated Purge: (Y/N) N

Calibration Start Date: 06/12/2012 10:28  Calibration End Date: 06/12/2012 12:32  Calibration ID: 9252

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-47065/4 | P5B61204.D |
| Level 2 | STD2 240-47065/5 | P5B61205.D |
| Level 3 | STD3 240-47065/6 | P5B61206.D |
| Level 4 | STD4 240-47065/7 | P5B61207.D |
| Level 5 | STD5 240-47065/8 | P5B61208.D |

| ANALYTE | CF | | | | CURVE TYPE | COEFFICIENT | | | # | MIN CF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 5 | LVL 2 | LVL 3 | LVL 4 | | B | M1 | M2 | | | | | | | | |
| Diesel | 165734<br>158267 | 149495 | 178830 | 126631 | Ave | | 155791.354 | | | | 13.0 | | 20.0 | | | |
| n-Nonane | 196545<br>186321 | 175458 | 192406 | 151130 | Ave | | 180372.163 | | | | 10.0 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab Sample ID: ICV 240-47065/9 Calibration Date: 06/12/2012 13:03

Instrument ID: A2HP5R Calib Start Date: 06/12/2012 10:28

GC Column: ID: Calib End Date: 06/12/2012 12:32

Lab File ID: P5B61209.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Diesel | Ave | 155791 | 145132 | | 466 | 500 | -6.8 | 20.0 |

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCV 240-51968/4  Calibration Date: 07/25/2012 13:32

Instrument ID: A2HP5R  Calib Start Date: 06/12/2012 10:28

GC Column:  ID:  Calib End Date: 06/12/2012 12:32

Lab File ID: P5B72504.D  Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Diesel | Ave | 155791 | 118823 | | 381 | 500 | -23.7* | 20.0 |
| n-Nonane | Ave | 180372 | 159572 | | 44.2 | 50.0 | -11.5 | 20.0 |

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCV 240-51968/7 Calibration Date: 07/25/2012 15:03

Instrument ID: A2HP5R Calib Start Date: 06/12/2012 10:28

GC Column: ID: Calib End Date: 06/12/2012 12:32

Lab File ID: P5B72507.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Diesel | Ave | 155791 | 148651 | | 477 | 500 | -4.6 | 20.0 |
| n-Nonane | Ave | 180372 | 194707 | | 54.0 | 50.0 | 7.9 | 20.0 |

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCV 240-51968/16 Calibration Date: 07/25/2012 19:38

Instrument ID: A2HP5R Calib Start Date: 06/12/2012 10:28

GC Column: ID: Calib End Date: 06/12/2012 12:32

Lab File ID: P5B72516.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Diesel | Ave | 155791 | 163062 | | 523 | 500 | 4.7 | 20.0 |
| n-Nonane | Ave | 180372 | 207720 | | 57.6 | 50.0 | 15.2 | 20.0 |

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCV 240-52120/4 Calibration Date: 07/26/2012 15:38

Instrument ID: A2HP5R Calib Start Date: 06/12/2012 10:28

GC Column: ID: Calib End Date: 06/12/2012 12:32

Lab File ID: P5B72604.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Diesel | Ave | 155791 | 149375 | | 479 | 500 | -4.1 | 20.0 |
| n-Nonane | Ave | 180372 | 195336 | | 54.1 | 50.0 | 8.3 | 20.0 |

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCV 240-52120/7  Calibration Date: 07/26/2012 17:11

Instrument ID: A2HP5R  Calib Start Date: 06/12/2012 10:28

GC Column:  ID:  Calib End Date: 06/12/2012 12:32

Lab File ID: P5B72607.D  Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Diesel | Ave | 155791 | 141082 | | 453 | 500 | -9.4 | 20.0 |
| n-Nonane | Ave | 180372 | 193232 | | 53.6 | 50.0 | 7.1 | 20.0 |

FORM IV
DIESEL RANGE ORGANICS METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab Sample ID: MB 240-51519/7-A

Matrix: Solid Date Extracted: 07/20/2012 11:12

Lab File ID:(1) P5B72515.D Lab File ID:(2)

Date Analyzed:(1) 07/25/2012 19:08 Date Analyzed:(2)

Instrument ID:(1) A2HP5R Instrument ID:(2)

GC Column:(1) ID: GC Column:(2) ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | DATE ANALYZED 1 | DATE ANALYZED 2 |
|---|---|---|---|
| MT-SS18-0-2 | 240-13070-2 | 07/25/2012 15:34 | |
| MT-SS18-0-2 MS | 240-13070-2 MS | 07/25/2012 16:04 | |
| MT-SS18-0-2 MSD | 240-13070-2 MSD | 07/25/2012 16:35 | |
| MT-SS18-8-10 | 240-13070-3 | 07/25/2012 17:05 | |
| | LCS 240-51519/8-A | 07/25/2012 18:37 | |
| MT-SB17-0-2 | 240-13070-5 | 07/26/2012 16:09 | |
| MT-SB17-8-10 | 240-13070-6 | 07/26/2012 16:40 | |

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13070-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-51519/7-A

Matrix: Solid | Lab File ID: P5B72515.D

Analysis Method: 8015C | Date Collected:

Extraction Method: 3540C | Date Extracted: 07/20/2012 11:12

Sample wt/vol: 30.00(g) | Date Analyzed: 07/25/2012 19:08

Con. Extract Vol.: 5.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: | ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51968 | Units: mg/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| STL00141 | Total Petroleum Hydrocarbons (C10-C32) | 17 | U | 17 | 9.3 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 111-84-2 | n-Nonane | 41 | | 10-110 |

FORM II
DIESEL RANGE ORGANICS SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): ID:

| Client Sample ID | Lab Sample ID | C91 # |
|---|---|---|
| MT-SS18-0-2 | 240-13070-2 | 36 |
| MT-SS18-8-10 | 240-13070-3 | 32 |
| MT-SB17-0-2 | 240-13070-5 | 35 |
| MT-SB17-8-10 | 240-13070-6 | 38 |
| | MB 240-51519/7-A | 41 |
| | LCS 240-51519/8-A | 32 |
| MT-SS18-0-2 MS | 240-13070-2 MS | 38 |
| MT-SS18-0-2 MSD | 240-13070-2 MSD | 39 |

| | QC LIMITS |
|---|---|
| C9 = n-Nonane | 10-110 |

# Column to be used to flag recovery values

FORM II 8015C

FORM III
DIESEL RANGE ORGANICS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: P5B72514.D

Lab ID: LCS 240-51519/8-A Client ID:

| COMPOUND | SPIKE ADDED (mg/Kg) | LCS CONCENTRATION (mg/Kg) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| Diesel | 83.3 | 52.1 | 63 | 47-138 | |

# Column to be used to flag recovery and RPD values

FORM III 8015C

FORM III
DIESEL RANGE ORGANICS MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: P5B72509.D

Lab ID: 240-13070-2 MS Client ID: MT-SS18-0-2 MS

| COMPOUND | SPIKE ADDED (mg/Kg) | SAMPLE CONCENTRATION (mg/Kg) | MS CONCENTRATION (mg/Kg) | MS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|---|
| Diesel | 100 | 20 U | 69.1 | 69 | 10-199 | |

# Column to be used to flag recovery and RPD values

FORM III 8015C

FORM III
DIESEL RANGE ORGANICS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: P5B72510.D

Lab ID: 240-13070-2 MSD Client ID: MT-SS18-0-2 MSD

| COMPOUND | SPIKE ADDED (mg/Kg) | MSD CONCENTRATION (mg/Kg) | MSD % REC | % RPD | QC LIMITS RPD | QC LIMITS REC | # |
|---|---|---|---|---|---|---|---|
| Diesel | 98.5 | 71.1 | 72 | 3 | 30 | 10-199 | |

# Column to be used to flag recovery and RPD values

FORM III 8015C

FORM VIII
DIESEL RANGE ORGANICS ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Sample No.: CCV 240-51968/4  Date Analyzed: 07/25/2012 13:32

Instrument ID: A2HP5R  GC Column:  ID: ()

Lab File ID (Standard): P5B72504.D  Heated Purge: (Y/N) N

Calibration ID: 9252

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

| | | | | C9 RT # | | |
|---|---|---|---|---|---|---|
| CONTINUING CALIBRATION SURROGATE | | | | 3.59 | | |
| UPPER LIMIT | | | | 3.69 | | |
| LOWER LIMIT | | | | 3.49 | | |
| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | LAB FILE ID | | | |
| CCV 240-51968/4 CCVRT | | 07/25/2012 13:32 | P5B72504.D | 3.59 | | |
| CCV 240-51968/7 | | 07/25/2012 15:03 | P5B72507.D | 3.60 | | |
| 240-13070-2 | MT-SS18-0-2 | 07/25/2012 15:34 | P5B72508.D | 3.58 | | |
| 240-13070-2 MS | MT-SS18-0-2 MS | 07/25/2012 16:04 | P5B72509.D | 3.58 | | |
| 240-13070-2 MSD | MT-SS18-0-2 MSD | 07/25/2012 16:35 | P5B72510.D | 3.59 | | |
| 240-13070-3 | MT-SS18-8-10 | 07/25/2012 17:05 | P5B72511.D | 3.58 | | |
| LCS 240-51519/8-A | | 07/25/2012 18:37 | P5B72514.D | 3.59 | | |
| MB 240-51519/7-A | | 07/25/2012 19:08 | P5B72515.D | 3.58 | | |
| CCV 240-51968/16 | | 07/25/2012 19:38 | P5B72516.D | 3.60 | | |

C9 = n-Nonane

C9 RT Limit = ± 0.1 minutes of surrogate RT

# Column used to flag values outside QC limits

FORM VIII 8015C

FORM VIII
DIESEL RANGE ORGANICS ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Sample No.: CCV 240-52120/4 Date Analyzed: 07/26/2012 15:38

Instrument ID: A2HP5R GC Column: ID: ()

Lab File ID (Standard): P5B72604.D Heated Purge: (Y/N) N

Calibration ID: 9252

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

| | | | | C9 RT # | | |
|---|---|---|---|---|---|---|
| CONTINUING CALIBRATION SURROGATE | | | | 3.60 | | |
| UPPER LIMIT | | | | 3.70 | | |
| LOWER LIMIT | | | | 3.50 | | |
| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | LAB FILE ID | | | |
| CCV 240-52120/4 CCVRT | | 07/26/2012 15:38 | P5B72604.D | 3.60 | | |
| 240-13070-5 | MT-SB17-0-2 | 07/26/2012 16:09 | P5B72605.D | 3.57 | | |
| 240-13070-6 | MT-SB17-8-10 | 07/26/2012 16:40 | P5B72606.D | 3.59 | | |
| CCV 240-52120/7 | | 07/26/2012 17:11 | P5B72607.D | 3.60 | | |

C9 = n-Nonane

C9 RT Limit = ± 0.1 minutes of surrogate RT

# Column used to flag values outside QC limits

FORM VIII 8015C

PESTICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Instrument ID: A2HP9 Start Date: 07/07/2012 11:44

Analysis Batch Number: 50336 End Date: 07/09/2012 23:08

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| STD 240-50336/9 IC | | 07/07/2012 11:44 | 1 | P9707009.D | CLP-1 0.53(mm) |
| STD 240-50336/9 IC | | 07/07/2012 11:44 | 1 | P9707009.D | CLP-2 0.53(mm) |
| STD 240-50336/10 IC | | 07/07/2012 12:07 | 1 | P9707010.D | CLP-1 0.53(mm) |
| STD 240-50336/10 IC | | 07/07/2012 12:07 | 1 | P9707010.D | CLP-2 0.53(mm) |
| STD 240-50336/11 IC | | 07/07/2012 12:31 | 1 | P9707011.D | CLP-1 0.53(mm) |
| STD 240-50336/11 IC | | 07/07/2012 12:31 | 1 | P9707011.D | CLP-2 0.53(mm) |
| STD 240-50336/12 IC | | 07/07/2012 12:56 | 1 | P9707012.D | CLP-1 0.53(mm) |
| STD 240-50336/12 IC | | 07/07/2012 12:56 | 1 | P9707012.D | CLP-2 0.53(mm) |
| STD 240-50336/13 IC | | 07/07/2012 13:20 | 1 | P9707013.D | CLP-1 0.53(mm) |
| STD 240-50336/13 IC | | 07/07/2012 13:20 | 1 | P9707013.D | CLP-2 0.53(mm) |
| STD 240-50336/14 IC | | 07/07/2012 13:44 | 1 | P9707014.D | CLP-1 0.53(mm) |
| STD 240-50336/14 IC | | 07/07/2012 13:44 | 1 | P9707014.D | CLP-2 0.53(mm) |
| ICV 240-50336/15 | | 07/07/2012 14:09 | 1 | | CLP-1 0.53(mm) |
| ICV 240-50336/15 | | 07/07/2012 14:09 | 1 | | CLP-2 0.53(mm) |
| STD 240-50336/16 IC | | 07/07/2012 14:33 | 1 | | CLP-1 0.53(mm) |
| STD 240-50336/16 IC | | 07/07/2012 14:33 | 1 | | CLP-2 0.53(mm) |
| STD 240-50336/17 IC | | 07/07/2012 15:03 | 1 | | CLP-1 0.53(mm) |
| STD 240-50336/17 IC | | 07/07/2012 15:03 | 1 | | CLP-2 0.53(mm) |
| STD 240-50336/18 IC | | 07/07/2012 15:27 | 1 | | CLP-1 0.53(mm) |
| STD 240-50336/18 IC | | 07/07/2012 15:27 | 1 | | CLP-2 0.53(mm) |
| STD 240-50336/19 IC | | 07/07/2012 15:52 | 1 | | CLP-1 0.53(mm) |
| STD 240-50336/19 IC | | 07/07/2012 15:52 | 1 | | CLP-2 0.53(mm) |
| STD 240-50336/20 IC | | 07/07/2012 16:16 | 1 | | CLP-1 0.53(mm) |
| STD 240-50336/20 IC | | 07/07/2012 16:16 | 1 | | CLP-2 0.53(mm) |
| PEM 240-50336/21 | | 07/08/2012 19:27 | 1 | P9707021.D | CLP-1 0.53(mm) |
| PEM 240-50336/21 | | 07/08/2012 19:27 | 1 | P9707021.D | CLP-2 0.53(mm) |
| STD 240-50336/22 IC | | 07/08/2012 19:52 | 1 | P9707022.D | CLP-1 0.53(mm) |
| STD 240-50336/22 IC | | 07/08/2012 19:52 | 1 | P9707022.D | CLP-2 0.53(mm) |
| STD 240-50336/23 IC | | 07/08/2012 20:16 | 1 | P9707023.D | CLP-1 0.53(mm) |
| STD 240-50336/23 IC | | 07/08/2012 20:16 | 1 | P9707023.D | CLP-2 0.53(mm) |
| STD 240-50336/24 ICRT | | 07/08/2012 20:41 | 1 | P9707024.D | CLP-1 0.53(mm) |
| STD 240-50336/24 ICRT | | 07/08/2012 20:41 | 1 | P9707024.D | CLP-2 0.53(mm) |
| STD 240-50336/25 IC | | 07/08/2012 21:05 | 1 | P9707025.D | CLP-1 0.53(mm) |
| STD 240-50336/25 IC | | 07/08/2012 21:05 | 1 | P9707025.D | CLP-2 0.53(mm) |
| STD 240-50336/26 IC | | 07/08/2012 21:30 | 1 | P9707026.D | CLP-1 0.53(mm) |
| STD 240-50336/26 IC | | 07/08/2012 21:30 | 1 | P9707026.D | CLP-2 0.53(mm) |
| STD 240-50336/27 IC | | 07/08/2012 21:54 | 1 | P9707027.D | CLP-1 0.53(mm) |
| STD 240-50336/27 IC | | 07/08/2012 21:54 | 1 | P9707027.D | CLP-2 0.53(mm) |
| ICV 240-50336/28 | | 07/08/2012 22:19 | 1 | P9707028.D | CLP-1 0.53(mm) |
| ICV 240-50336/28 | | 07/08/2012 22:19 | 1 | P9707028.D | CLP-2 0.53(mm) |
| STD 240-50336/29 IC | | 07/08/2012 22:43 | 1 | P9707029.D | CLP-1 0.53(mm) |
| STD 240-50336/29 IC | | 07/08/2012 22:43 | 1 | P9707029.D | CLP-2 0.53(mm) |
| STD 240-50336/30 IC | | 07/08/2012 23:07 | 1 | P9707030.D | CLP-1 0.53(mm) |
| STD 240-50336/30 IC | | 07/08/2012 23:07 | 1 | P9707030.D | CLP-2 0.53(mm) |

PESTICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Instrument ID: A2HP9 Start Date: 07/07/2012 11:44

Analysis Batch Number: 50336 End Date: 07/09/2012 23:08

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| STD 240-50336/31 IC | | 07/08/2012 23:32 | 1 | P9707031.D | CLP-1 0.53(mm) |
| STD 240-50336/31 IC | | 07/08/2012 23:32 | 1 | P9707031.D | CLP-2 0.53(mm) |
| STD 240-50336/32 IC | | 07/08/2012 23:56 | 1 | P9707032.D | CLP-1 0.53(mm) |
| STD 240-50336/32 IC | | 07/08/2012 23:56 | 1 | P9707032.D | CLP-2 0.53(mm) |
| STD 240-50336/33 IC | | 07/09/2012 00:21 | 1 | P9707033.D | CLP-1 0.53(mm) |
| STD 240-50336/33 IC | | 07/09/2012 00:21 | 1 | P9707033.D | CLP-2 0.53(mm) |
| ICV 240-50336/34 | | 07/09/2012 00:45 | 1 | | CLP-1 0.53(mm) |
| ICV 240-50336/34 | | 07/09/2012 00:45 | 1 | | CLP-2 0.53(mm) |
| STD 240-50336/35 IC | | 07/09/2012 01:10 | 1 | P9707035.D | CLP-1 0.53(mm) |
| STD 240-50336/35 IC | | 07/09/2012 01:10 | 1 | P9707035.D | CLP-2 0.53(mm) |
| STD 240-50336/36 IC | | 07/09/2012 01:34 | 1 | P9707036.D | CLP-1 0.53(mm) |
| STD 240-50336/36 IC | | 07/09/2012 01:34 | 1 | P9707036.D | CLP-2 0.53(mm) |
| STD 240-50336/37 IC | | 07/09/2012 01:59 | 1 | P9707037.D | CLP-1 0.53(mm) |
| STD 240-50336/37 IC | | 07/09/2012 01:59 | 1 | P9707037.D | CLP-2 0.53(mm) |
| STD 240-50336/38 IC | | 07/09/2012 02:23 | 1 | P9707038.D | CLP-1 0.53(mm) |
| STD 240-50336/38 IC | | 07/09/2012 02:23 | 1 | P9707038.D | CLP-2 0.53(mm) |
| STD 240-50336/39 IC | | 07/09/2012 02:47 | 1 | P9707039.D | CLP-1 0.53(mm) |
| STD 240-50336/39 IC | | 07/09/2012 02:47 | 1 | P9707039.D | CLP-2 0.53(mm) |
| ICV 240-50336/40 | | 07/09/2012 03:12 | 1 | | CLP-1 0.53(mm) |
| ICV 240-50336/40 | | 07/09/2012 03:12 | 1 | | CLP-2 0.53(mm) |
| PEM 240-50336/41 | | 07/09/2012 03:36 | 1 | | CLP-1 0.53(mm) |
| PEM 240-50336/41 | | 07/09/2012 03:36 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/09/2012 04:00 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/09/2012 04:00 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/09/2012 04:25 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/09/2012 04:25 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/09/2012 04:49 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/09/2012 04:49 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/09/2012 05:13 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/09/2012 05:13 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/09/2012 05:38 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/09/2012 05:38 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/09/2012 06:02 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/09/2012 06:02 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/09/2012 06:27 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/09/2012 06:27 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/09/2012 06:51 | 100 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/09/2012 06:51 | 100 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/09/2012 08:03 | 20 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/09/2012 08:03 | 20 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/09/2012 08:27 | 10 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/09/2012 08:27 | 10 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/09/2012 08:50 | 50 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/09/2012 08:50 | 50 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/09/2012 09:15 | 50 | | CLP-1 0.53(mm) |

PESTICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Instrument ID: A2HP9 Start Date: 07/07/2012 11:44

Analysis Batch Number: 50336 End Date: 07/09/2012 23:08

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| ZZZZZ | | 07/09/2012 09:15 | 50 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/09/2012 09:38 | 50 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/09/2012 09:38 | 50 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/09/2012 10:02 | 100 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/09/2012 10:02 | 100 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/09/2012 10:26 | 100 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/09/2012 10:26 | 100 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/09/2012 10:49 | 100 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/09/2012 10:49 | 100 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/09/2012 11:12 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/09/2012 11:12 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/09/2012 11:36 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/09/2012 11:36 | 1 | | CLP-2 0.53(mm) |
| CCV 240-50336/62 | | 07/09/2012 12:00 | 1 | | CLP-1 0.53(mm) |
| CCV 240-50336/62 | | 07/09/2012 12:00 | 1 | | CLP-2 0.53(mm) |
| CCV 240-50336/63 | | 07/09/2012 12:24 | 1 | | CLP-1 0.53(mm) |
| CCV 240-50336/63 | | 07/09/2012 12:24 | 1 | | CLP-2 0.53(mm) |
| PEM 240-50336/64 | | 07/09/2012 12:47 | 1 | | CLP-1 0.53(mm) |
| PEM 240-50336/64 | | 07/09/2012 12:47 | 1 | | CLP-2 0.53(mm) |
| CCV 240-50336/65 | | 07/09/2012 13:11 | 1 | | CLP-1 0.53(mm) |
| CCV 240-50336/65 | | 07/09/2012 13:11 | 1 | | CLP-2 0.53(mm) |
| CCV 240-50336/66 | | 07/09/2012 13:35 | 1 | | CLP-1 0.53(mm) |
| CCV 240-50336/66 | | 07/09/2012 13:35 | 1 | | CLP-2 0.53(mm) |
| CCV 240-50336/67 | | 07/09/2012 13:58 | 1 | | CLP-1 0.53(mm) |
| CCV 240-50336/67 | | 07/09/2012 13:58 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/09/2012 14:28 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/09/2012 14:28 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/09/2012 14:57 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/09/2012 14:57 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/09/2012 15:27 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/09/2012 15:27 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/09/2012 15:56 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/09/2012 15:56 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/09/2012 16:25 | 2 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/09/2012 16:25 | 2 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/09/2012 16:55 | 5 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/09/2012 16:55 | 5 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/09/2012 17:24 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/09/2012 17:24 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/09/2012 17:54 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/09/2012 17:54 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/09/2012 18:18 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/09/2012 18:18 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/09/2012 18:42 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/09/2012 18:42 | 1 | | CLP-2 0.53(mm) |

PESTICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Instrument ID: A2HP9 Start Date: 07/07/2012 11:44

Analysis Batch Number: 50336 End Date: 07/09/2012 23:08

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| ZZZZZ | | 07/09/2012 19:06 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/09/2012 19:06 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/09/2012 19:31 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/09/2012 19:31 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/09/2012 19:55 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/09/2012 19:55 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/09/2012 20:20 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/09/2012 20:20 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/09/2012 20:43 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/09/2012 20:43 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/09/2012 21:07 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/09/2012 21:07 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/09/2012 21:31 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/09/2012 21:31 | 1 | | CLP-2 0.53(mm) |
| CCV 240-50336/85 | | 07/09/2012 21:54 | 1 | | CLP-1 0.53(mm) |
| CCV 240-50336/85 | | 07/09/2012 21:54 | 1 | | CLP-2 0.53(mm) |
| CCV 240-50336/86 | | 07/09/2012 22:19 | 1 | | CLP-1 0.53(mm) |
| CCV 240-50336/86 | | 07/09/2012 22:19 | 1 | | CLP-2 0.53(mm) |
| CCV 240-50336/87 | | 07/09/2012 22:43 | 1 | | CLP-1 0.53(mm) |
| CCV 240-50336/87 | | 07/09/2012 22:43 | 1 | | CLP-2 0.53(mm) |
| CCV 240-50336/88 | | 07/09/2012 23:08 | 1 | | CLP-1 0.53(mm) |
| CCV 240-50336/88 | | 07/09/2012 23:08 | 1 | | CLP-2 0.53(mm) |

PESTICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Instrument ID: A2HP9 Start Date: 07/16/2012 08:52

Analysis Batch Number: 50850 End Date: 07/17/2012 04:30

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| PEM 240-50850/4 | | 07/16/2012 08:52 | 1 | | CLP-1 0.53(mm) |
| PEM 240-50850/4 | | 07/16/2012 08:52 | 1 | | CLP-2 0.53(mm) |
| CCV 240-50850/6 CCVRT | | 07/16/2012 09:47 | 1 | P9701605.D | CLP-1 0.53(mm) |
| CCV 240-50850/6 CCVRT | | 07/16/2012 09:47 | 1 | P9701605.D | CLP-2 0.53(mm) |
| CCV 240-50850/7 | | 07/16/2012 10:12 | 1 | | CLP-1 0.53(mm) |
| CCV 240-50850/7 | | 07/16/2012 10:12 | 1 | | CLP-2 0.53(mm) |
| CCV 240-50850/8 | | 07/16/2012 10:36 | 1 | | CLP-1 0.53(mm) |
| CCV 240-50850/8 | | 07/16/2012 10:36 | 1 | | CLP-2 0.53(mm) |
| CCV 240-50850/9 | | 07/16/2012 11:07 | 1 | | CLP-1 0.53(mm) |
| CCV 240-50850/9 | | 07/16/2012 11:07 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/16/2012 11:32 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/16/2012 11:32 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/16/2012 11:57 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/16/2012 11:57 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/16/2012 12:27 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/16/2012 12:27 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/16/2012 12:57 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/16/2012 12:57 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/16/2012 13:22 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/16/2012 13:22 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/16/2012 13:47 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/16/2012 13:47 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/16/2012 14:17 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/16/2012 14:17 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/16/2012 14:41 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/16/2012 14:41 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/16/2012 15:06 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/16/2012 15:06 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/16/2012 15:36 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/16/2012 15:36 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/16/2012 16:00 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/16/2012 16:00 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/16/2012 16:30 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/16/2012 16:30 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/16/2012 16:59 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/16/2012 16:59 | 1 | | CLP-2 0.53(mm) |
| CCV 240-50850/23 | | 07/16/2012 17:28 | 1 | P9701622.D | CLP-1 0.53(mm) |
| CCV 240-50850/23 | | 07/16/2012 17:28 | 1 | P9701622.D | CLP-2 0.53(mm) |
| CCV 240-50850/24 | | 07/16/2012 17:58 | 1 | P9701623.D | CLP-1 0.53(mm) |
| CCV 240-50850/24 | | 07/16/2012 17:58 | 1 | P9701623.D | CLP-2 0.53(mm) |
| CCV 240-50850/25 | | 07/16/2012 18:22 | 1 | P9701624.D | CLP-1 0.53(mm) |
| CCV 240-50850/25 | | 07/16/2012 18:22 | 1 | P9701624.D | CLP-2 0.53(mm) |
| CCV 240-50850/26 | | 07/16/2012 18:47 | 1 | P9701625.D | CLP-1 0.53(mm) |
| CCV 240-50850/26 | | 07/16/2012 18:47 | 1 | P9701625.D | CLP-2 0.53(mm) |

PESTICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Instrument ID: A2HP9 Start Date: 07/16/2012 08:52

Analysis Batch Number: 50850 End Date: 07/17/2012 04:30

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| PEM 240-50850/27 | | 07/16/2012 19:11 | 1 | P9701626.D | CLP-1 0.53(mm) |
| PEM 240-50850/27 | | 07/16/2012 19:11 | 1 | P9701626.D | CLP-2 0.53(mm) |
| 240-13070-4 | MT-TCLP-8-10 | 07/16/2012 19:35 | 1 | P9701627.D | CLP-1 0.53(mm) |
| 240-13070-4 | MT-TCLP-8-10 | 07/16/2012 19:35 | 1 | P9701627.D | CLP-2 0.53(mm) |
| 240-13070-4 MS | MT-TCLP-8-10 MS | 07/16/2012 19:59 | 5 | P9701628.D | CLP-1 0.53(mm) |
| 240-13070-4 MS | MT-TCLP-8-10 MS | 07/16/2012 19:59 | 5 | P9701628.D | CLP-2 0.53(mm) |
| MB 240-50725/3-A | | 07/16/2012 20:24 | 1 | P9701629.D | CLP-1 0.53(mm) |
| MB 240-50725/3-A | | 07/16/2012 20:24 | 1 | P9701629.D | CLP-2 0.53(mm) |
| LCS 240-50725/4-A | | 07/16/2012 20:48 | 5 | P9701630.D | CLP-1 0.53(mm) |
| LCS 240-50725/4-A | | 07/16/2012 20:48 | 5 | P9701630.D | CLP-2 0.53(mm) |
| ZZZZZ | | 07/16/2012 21:12 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/16/2012 21:12 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/16/2012 21:37 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/16/2012 21:37 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/16/2012 22:01 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/16/2012 22:01 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/16/2012 22:25 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/16/2012 22:25 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/16/2012 22:50 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/16/2012 22:50 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/16/2012 23:14 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/16/2012 23:14 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/16/2012 23:38 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/16/2012 23:38 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/17/2012 00:03 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/17/2012 00:03 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/17/2012 00:27 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/17/2012 00:27 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/17/2012 00:51 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/17/2012 00:51 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/17/2012 01:16 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/17/2012 01:16 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/17/2012 01:40 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/17/2012 01:40 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/17/2012 02:04 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/17/2012 02:04 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/17/2012 02:29 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/17/2012 02:29 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/17/2012 02:53 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/17/2012 02:53 | 1 | | CLP-2 0.53(mm) |
| CCV 240-50850/47 | | 07/17/2012 03:17 | 1 | P9701646.D | CLP-1 0.53(mm) |
| CCV 240-50850/47 | | 07/17/2012 03:17 | 1 | P9701646.D | CLP-2 0.53(mm) |
| CCV 240-50850/48 | | 07/17/2012 03:42 | 1 | P9701647.D | CLP-1 0.53(mm) |
| CCV 240-50850/48 | | 07/17/2012 03:42 | 1 | P9701647.D | CLP-2 0.53(mm) |
| CCV 240-50850/49 | | 07/17/2012 04:06 | 1 | P9701648.D | CLP-1 0.53(mm) |

# PESTICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Instrument ID: A2HP9  Start Date: 07/16/2012 08:52

Analysis Batch Number: 50850  End Date: 07/17/2012 04:30

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| CCV 240-50850/49 | | 07/17/2012 04:06 | 1 | P9701648.D | CLP-2 0.53(mm) |
| CCV 240-50850/50 | | 07/17/2012 04:30 | 1 | | CLP-1 0.53(mm) |
| CCV 240-50850/50 | | 07/17/2012 04:30 | 1 | | CLP-2 0.53(mm) |

FORM VI
PESTICIDES INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13070-1 Analy Batch No.: 50336

SDG No.:

Instrument ID: A2HP9 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2012 11:44 Calibration End Date: 07/07/2012 11:44 Calibration ID: 10048

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD 240-50336/9 | P9707009.D |
| Level 2 | STD 240-50336/10 | P9707010.D |
| Level 3 | STD 240-50336/11 | P9707011.D |
| Level 4 | STD 240-50336/12 | P9707012.D |
| Level 5 | STD 240-50336/13 | P9707013.D |
| Level 6 | STD 240-50336/14 | P9707014.D |

| ANALYTE | CF | | | | CURVE TYPE | COEFFICIENT | | | # | MIN CF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 5 | LVL 2<br>LVL 6 | LVL 3 | LVL 4 | | B | M1 | M2 | | | | | | | | |
| Hexachlorobenzene | 4914449700<br>3167596705 | 3656487500<br>3090115323 | 3475442825 | 3284805860 | Ave | | 3598149652 | | | | 19.0 | | 20.0 | | | |
| Isodrin | 3673955600<br>2402151730 | 2737916800<br>2313506890 | 2600023050 | 2445001500 | Ave | | 2695425928 | | | | 19.0 | | 20.0 | | | |
| Kepone | 479757638<br>410840695 | 260155350<br>466332436 | 359984700 | 323089964 | Qua | -3275787.4 | 331622674 | 42737837.6 | | | | | | 0.9990 | | 0.9900 |

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PESTICIDES INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13070-1 Analy Batch No.: 50336

SDG No.:

Instrument ID: A2HP9 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2012 11:44 Calibration End Date: 07/07/2012 11:44 Calibration ID: 10049

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD 240-50336/9 | P9707009.D |
| Level 2 | STD 240-50336/10 | P9707010.D |
| Level 3 | STD 240-50336/11 | P9707011.D |
| Level 4 | STD 240-50336/12 | P9707012.D |
| Level 5 | STD 240-50336/13 | P9707013.D |
| Level 6 | STD 240-50336/14 | P9707014.D |

| ANALYTE | CF | | | | CURVE TYPE | COEFFICIENT | | | # | MIN CF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 5 | LVL 2<br>LVL 6 | LVL 3 | LVL 4 | | B | M1 | M2 | | | | | | | | |
| Hexachlorobenzene | 1048221190<br>7533106066 | 7687986150<br>7834709255 | 7452083075 | 7368476730 | Ave | | 8059762196 | | | | 15.0 | | 20.0 | | | |
| Isodrin | 7265957400<br>4739293930 | 5278128100<br>4684412340 | 5005894200 | 4724620100 | Ave | | 5283051012 | | | | 19.0 | | 20.0 | | | |
| Kepone | 222078425<br>597534962 | 163859444<br>789706334 | 327964638 | 398803079 | Qua | -36267539 | 398258238 | 126372115 | | | | | | 0.9990 | | 0.9900 |

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PESTICIDES INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-13070-1  Analy Batch No.: 50336

SDG No.:

Instrument ID: A2HP9  GC Column: CLP-1  ID: 0.53(mm)  Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2012 19:52  Calibration End Date: 07/08/2012 19:52  Calibration ID: 10060

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD 240-50336/22 | P9707022.D |
| Level 2 | STD 240-50336/23 | P9707023.D |
| Level 3 | STD 240-50336/24 | P9707024.D |
| Level 4 | STD 240-50336/25 | P9707025.D |
| Level 5 | STD 240-50336/26 | P9707026.D |
| Level 6 | STD 240-50336/27 | P9707027.D |

| ANALYTE | CF | | | | CURVE TYPE | COEFFICIENT | | | # | MIN CF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 5 | LVL 2<br>LVL 6 | LVL 3 | LVL 4 | | B | M1 | M2 | | | | | | | | |
| alpha-BHC | 3213403200<br>3308197020 | 3472600800<br>3112527720 | 3454826200 | 3355188640 | Ave | | 3319457263 | | | | 4.2 | | 20.0 | | | |
| gamma-BHC (Lindane) | 2767992600<br>2804442420 | 2982373100<br>2631462890 | 2923759280 | 2812118400 | Ave | | 2820358115 | | | | 4.4 | | 20.0 | | | |
| beta-BHC | 1239039600<br>1112397150 | 1262323000<br>1023675430 | 1172347640 | 1127557000 | Ave | | 1156223303 | | | | 7.6 | | 20.0 | | | |
| delta-BHC | 2469199200<br>2829370380 | 2686253500<br>2636278530 | 2859793440 | 2753894760 | Ave | | 2705798302 | | | | 5.3 | | 20.0 | | | |
| Heptachlor | 2191889000<br>1997347070 | 2041538000<br>1935815655 | 2224392920 | 2149421440 | Ave | | 2090067348 | | | | 5.5 | | 20.0 | | | |
| Aldrin | 3046009800<br>2867641870 | 3182938200<br>2644215615 | 3026533120 | 2902330220 | Ave | | 2944944804 | | | | 6.3 | | 20.0 | | | |
| Heptachlor epoxide | 2518969000<br>2313987310 | 2515008700<br>2080557410 | 2468101200 | 2319427220 | Ave | | 2369341807 | | | | 7.1 | | 20.0 | | | |
| gamma-Chlordane | 2690842000<br>2586689840 | 2671337100<br>2371354270 | 2672876600 | 2534483900 | Ave | | 2587930618 | | | | 4.7 | | 20.0 | | | |
| alpha-Chlordane | 2771009600<br>2581365050 | 2785397600<br>2357028685 | 2731936280 | 2580119560 | Ave | | 2634476129 | | | | 6.2 | | 20.0 | | | |
| Endosulfan I | 2227652400<br>2094034070 | 2202952600<br>1894289005 | 2222729680 | 2100663320 | Ave | | 2123720179 | | | | 6.0 | | 20.0 | | | |
| 4,4'-DDE | 2760769000<br>2508915920 | 2569624200<br>2285916350 | 2692030560 | 2537351460 | Ave | | 2559101248 | | | | 6.4 | | 20.0 | | | |
| Dieldrin | 2159102000<br>2164043290 | 2123276700<br>1951483215 | 2229824160 | 2141294160 | Ave | | 2128170588 | | | | 4.4 | | 20.0 | | | |
| Endrin | 2072749200<br>1882603390 | 1899027300<br>1684445455 | 1928486160 | 1863046400 | Ave | | 1888392984 | | | | 6.6 | | 20.0 | | | |
| 4,4'-DDD | 1375179200<br>1497043680 | 1292398200<br>1369129090 | 1445795040 | 1353989160 | Ave | | 1388922395 | | | | 5.2 | | 20.0 | | | |
| Endosulfan II | 2104148400<br>1956624820 | 1937011300<br>1741211140 | 2087359840 | 1834489280 | Ave | | 1943474130 | | | | 7.3 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PESTICIDES INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13070-1 Analy Batch No.: 50336

SDG No.:

Instrument ID: A2HP9 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2012 19:52 Calibration End Date: 07/08/2012 19:52 Calibration ID: 10060

| ANALYTE | CF | | | | CURVE TYPE | COEFFICIENT | | | # | MIN CF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 5 | LVL 2<br>LVL 6 | LVL 3 | LVL 4 | | B | M1 | M2 | | | | | | | | |
| 4,4'-DDT | 1323412600<br>1410966060 | 1175629000<br>1303894190 | 1365064400 | 1266854320 | Ave | | 1307636762 | | | | 6.2 | | 20.0 | | | |
| Endrin aldehyde | 1360311800<br>1351533730 | 1251116800<br>1211800645 | 1366009960 | 1262393920 | Ave | | 1300527809 | | | | 5.1 | | 20.0 | | | |
| Methoxychlor | 635082200<br>581246450 | 536196800<br>527928230 | 611566080 | 534574580 | Ave | | 571099057 | | | | 7.9 | | 20.0 | | | |
| Endosulfan sulfate | 1780816800<br>1659814960 | 1542557400<br>1495953770 | 1743634160 | 1583359600 | Ave | | 1634356115 | | | | 6.9 | | 20.0 | | | |
| Endrin ketone | 1827298200<br>1768054860 | 1604898000<br>1580110355 | 1813073960 | 1638825580 | Ave | | 1705376826 | | | | 6.5 | | 20.0 | | | |
| Tetrachloro-m-xylene | 2229050000<br>2005739130 | 2316352000<br>1911242235 | 2186473400 | 2088459380 | Ave | | 2122886024 | | | | 7.1 | | 20.0 | | | |
| DCB Decachlorobiphenyl | 1897127200<br>1672043880 | 1668924900<br>1512090220 | 1783395400 | 1614141760 | Ave | | 1691287227 | | | | 7.9 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PESTICIDES INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13070-1 Analy Batch No.: 50336

SDG No.:

Instrument ID: A2HP9 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2012 19:52 Calibration End Date: 07/08/2012 19:52 Calibration ID: 10061

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD 240-50336/22 | P9707022.D |
| Level 2 | STD 240-50336/23 | P9707023.D |
| Level 3 | STD 240-50336/24 | P9707024.D |
| Level 4 | STD 240-50336/25 | P9707025.D |
| Level 5 | STD 240-50336/26 | P9707026.D |
| Level 6 | STD 240-50336/27 | P9707027.D |

| ANALYTE | CF | | | | CURVE TYPE | COEFFICIENT | | | # | MIN CF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 5 | LVL 2<br>LVL 6 | LVL 3 | LVL 4 | | B | M1 | M2 | | | | | | | | |
| alpha-BHC | 7070552800<br>7583374500 | 7527211500<br>7379454425 | 7438755000 | 7415447440 | Ave | | 7402465944 | | | | 2.4 | | 20.0 | | | |
| gamma-BHC (Lindane) | 6291085400<br>6278567740 | 6512248200<br>5955610710 | 6325238400 | 6132734420 | Ave | | 6249247478 | | | | 3.0 | | 20.0 | | | |
| beta-BHC | 3030235400<br>2439309940 | 2917973000<br>2232287090 | 2692330360 | 2448862820 | Ave | | 2626833102 | | | | 12.0 | | 20.0 | | | |
| delta-BHC | 5769112200<br>6160996310 | 5759880400<br>5885588175 | 5977738800 | 5810854620 | Ave | | 5894028418 | | | | 2.6 | | 20.0 | | | |
| Heptachlor | 5512454400<br>4381249730 | 4873386700<br>4286788845 | 4963795480 | 4682916600 | Ave | | 4783431959 | | | | 9.3 | | 20.0 | | | |
| Aldrin | 6441648400<br>5867411800 | 6552003400<br>5535614045 | 6073044120 | 5850163320 | Ave | | 6053314181 | | | | 6.4 | | 20.0 | | | |
| Heptachlor epoxide | 5289412600<br>4877580510 | 5266067100<br>4410380125 | 5032128920 | 4717681260 | Ave | | 4932208419 | | | | 6.8 | | 20.0 | | | |
| gamma-Chlordane | 5295446800<br>4836062100 | 5173113200<br>4515336050 | 5022876360 | 4741686460 | Ave | | 4930753495 | | | | 5.9 | | 20.0 | | | |
| alpha-Chlordane | 5231791600<br>4647408420 | 5107422200<br>4339464735 | 4865144560 | 4593063400 | Ave | | 4797382486 | | | | 7.0 | | 20.0 | | | |
| Endosulfan I | 4404094200<br>3910106320 | 4216531300<br>3562593975 | 4121413840 | 3849712920 | Ave | | 4010742093 | | | | 7.4 | | 20.0 | | | |
| 4,4'-DDE | 4440209600<br>4196164790 | 4205867500<br>3923150875 | 4391253880 | 4200017100 | Ave | | 4226110624 | | | | 4.3 | | 20.0 | | | |
| Dieldrin | 4359688200<br>4074384030 | 4213033900<br>3803490770 | 4300411720 | 4110635920 | Ave | | 4143607423 | | | | 4.8 | | 20.0 | | | |
| Endrin | 3771563200<br>3584838550 | 3501896300<br>3309344155 | 3659002520 | 3459985200 | Ave | | 3547771654 | | | | 4.6 | | 20.0 | | | |
| 4,4'-DDD | 2418803800<br>2740622010 | 2201331100<br>2667730645 | 2528612400 | 2445295780 | Ave | | 2500399289 | | | | 7.7 | | 20.0 | | | |
| Endosulfan II | 3862759200<br>3397821590 | 3478772500<br>3012433925 | 3617448960 | 3362686300 | Ave | | 3455320413 | | | | 8.2 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PESTICIDES INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13070-1 Analy Batch No.: 50336

SDG No.:

Instrument ID: A2HP9 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2012 19:52 Calibration End Date: 07/08/2012 19:52 Calibration ID: 10061

| ANALYTE | CF | | | | CURVE TYPE | COEFFICIENT | | | # | MIN CF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 5 | LVL 2<br>LVL 6 | LVL 3 | LVL 4 | | B | M1 | M2 | | | | | | | | |
| 4,4'-DDT | 2332631000<br>2424941600 | 2054629500<br>2303219750 | 2300927280 | 2136279620 | Ave | | 2258771458 | | | | 6.1 | | 20.0 | | | |
| Endrin aldehyde | 2501778800<br>2194311870 | 2171097000<br>2098265495 | 2360398200 | 2004747980 | Ave | | 2221766558 | | | | 8.1 | | 20.0 | | | |
| Endosulfan sulfate | 2895967800<br>2849519410 | 2553750100<br>2673113955 | 2786487280 | 2631342540 | Ave | | 2731696848 | | | | 4.9 | | 20.0 | | | |
| Methoxychlor | 1099216600<br>1051982400 | 955518800<br>974050160 | 1054166400 | 950284220 | Ave | | 1014203097 | | | | 6.1 | | 20.0 | | | |
| Endrin ketone | 2931573600<br>2963471780 | 2587992400<br>2730067080 | 2877560360 | 2685737980 | Ave | | 2796067200 | | | | 5.4 | | 20.0 | | | |
| Tetrachloro-m-xylene | 4713804200<br>4281349970 | 4806544600<br>4150055100 | 4484713800 | 4357600720 | Ave | | 4465678065 | | | | 5.7 | | 20.0 | | | |
| DCB Decachlorobiphenyl | 2962026800<br>2500589820 | 2513908000<br>2328601940 | 2609739680 | 2397156380 | Ave | | 2552003770 | | | | 8.8 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PESTICIDES INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13070-1 Analy Batch No.: 50336

SDG No.:

Instrument ID: A2HP9 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2012 22:43 Calibration End Date: 07/08/2012 22:43 Calibration ID: 10066

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD 240-50336/29 | P9707029.D |
| Level 2 | STD 240-50336/30 | P9707030.D |
| Level 3 | STD 240-50336/31 | P9707031.D |
| Level 4 | STD 240-50336/32 | P9707032.D |
| Level 5 | STD 240-50336/33 | P9707033.D |

| ANALYTE | CF | | | | CURVE TYPE | COEFFICIENT | | | # | MIN CF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1 LVL 5 | LVL 2 | LVL 3 | LVL 4 | | B | M1 | M2 | | | | | | | | |
| Toxaphene Peak 1 | 71023315 80495019 | 73005086 | 70207355 | 70654727 | Ave | | 73077100.4 | | | | 5.9 | | 20.0 | | | |
| Toxaphene Peak 2 | 91693815 87445040 | 95242012 | 93626688 | 75999417 | Ave | | 88801394.5 | | | | 8.7 | | 20.0 | | | |
| Toxaphene Peak 3 | 77429555 84547626 | 78299516 | 75011722 | 75154657 | Ave | | 78088615.1 | | | | 5.0 | | 20.0 | | | |
| Toxaphene Peak 4 | 72614090 85643103 | 74218858 | 73166040 | 74297670 | Ave | | 75987952.2 | | | | 7.2 | | 20.0 | | | |
| Toxaphene Peak 5 | 64981330 71475010 | 68877032 | 65418971 | 64664372 | Ave | | 67083343.0 | | | | 4.4 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PESTICIDES INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13070-1 Analy Batch No.: 50336

SDG No.:

Instrument ID: A2HP9 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2012 22:43 Calibration End Date: 07/08/2012 22:43 Calibration ID: 10067

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD 240-50336/29 | P9707029.D |
| Level 2 | STD 240-50336/30 | P9707030.D |
| Level 3 | STD 240-50336/31 | P9707031.D |
| Level 4 | STD 240-50336/32 | P9707032.D |
| Level 5 | STD 240-50336/33 | P9707033.D |

| ANALYTE | CF | | | | CURVE TYPE | COEFFICIENT | | | # | MIN CF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1 LVL 5 | LVL 2 | LVL 3 | LVL 4 | | B | M1 | M2 | | | | | | | | |
| Toxaphene Peak 1 | 146247835<br>156461381 | 145841188 | 138414217 | 135484291 | Ave | | 144489782 | | | | 5.6 | | 20.0 | | | |
| Toxaphene Peak 2 | 156584940<br>175884957 | 160542454 | 152637502 | 150156015 | Ave | | 159161174 | | | | 6.4 | | 20.0 | | | |
| Toxaphene Peak 3 | 130776895<br>141974919 | 130675012 | 122542856 | 120751300 | Ave | | 129344196 | | | | 6.5 | | 20.0 | | | |
| Toxaphene Peak 4 | 97367000<br>128630549 | 106415708 | 114103922 | 103839151 | Lin1 | -7890728.9 | 123801134 | | | | | | | 0.9920 | | 0.9900 |
| Toxaphene Peak 5 | 100245035<br>103561085 | 104484712 | 82706250 | 92483648 | Ave | | 96696145.9 | | | | 9.4 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PESTICIDES INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13070-1 Analy Batch No.: 50336

SDG No.:

Instrument ID: A2HP9 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2012 01:10 Calibration End Date: 07/09/2012 01:10 Calibration ID: 10072

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD 240-50336/35 | P9707035.D |
| Level 2 | STD 240-50336/36 | P9707036.D |
| Level 3 | STD 240-50336/37 | P9707037.D |
| Level 4 | STD 240-50336/38 | P9707038.D |
| Level 5 | STD 240-50336/39 | P9707039.D |

| ANALYTE | CF | | | | CURVE TYPE | COEFFICIENT | | | # | MIN CF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1 LVL 5 | LVL 2 | LVL 3 | LVL 4 | | B | M1 | M2 | | | | | | | | |
| Chlordane (technical) Peak 1 | 124028000 121244636 | 123940560 | 126311680 | 112698525 | Ave | | 121644680 | | | | 4.4 | | 20.0 | | | |
| Chlordane (technical) Peak 2 | 119963100 116569922 | 122014880 | 113795350 | 108656790 | Ave | | 116200008 | | | | 4.5 | | 20.0 | | | |
| Chlordane (technical) Peak 3 | 347250150 386253100 | 367461900 | 342462260 | 341547090 | Ave | | 356994900 | | | | 5.4 | | 20.0 | | | |
| Chlordane (technical) Peak 4 | 550583750 606767084 | 595082360 | 550812140 | 540942690 | Ave | | 568837605 | | | | 5.2 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PESTICIDES INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13070-1 Analy Batch No.: 50336

SDG No.:

Instrument ID: A2HP9 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2012 01:10 Calibration End Date: 07/09/2012 01:10 Calibration ID: 10073

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD 240-50336/35 | P9707035.D |
| Level 2 | STD 240-50336/36 | P9707036.D |
| Level 3 | STD 240-50336/37 | P9707037.D |
| Level 4 | STD 240-50336/38 | P9707038.D |
| Level 5 | STD 240-50336/39 | P9707039.D |

| ANALYTE | CF | | | | CURVE TYPE | COEFFICIENT | | | # | MIN CF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 5 | LVL 2 | LVL 3 | LVL 4 | | B | M1 | M2 | | | | | | | | |
| Chlordane (technical) Peak 1 | 299543550<br>260705702 | 289883720 | 266482050 | 253165125 | Ave | | 273956029 | | | | 7.2 | | 20.0 | | | |
| Chlordane (technical) Peak 2 | 289050450<br>220085524 | 275926180 | 236591400 | 217934665 | Lin1 | 1856598.65 | 215612827 | | | | | | | 0.9980 | | 0.9900 |
| Chlordane (technical) Peak 3 | 609364250<br>662371592 | 612861060 | 623339020 | 578563710 | Ave | | 617299926 | | | | 4.9 | | 20.0 | | | |
| Chlordane (technical) Peak 4 | 608839600<br>591176420 | 618528680 | 581200000 | 537426515 | Ave | | 587434243 | | | | 5.4 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VII
PESTICIDES PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab Sample ID: PEM 240-50336/21 Calibration Date: 07/08/2012 19:27

Instrument ID: A2HP9 Calib Start Date: 06/27/2012 15:48

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 06/27/2012 17:59

Lab File ID: P9707021.D Conc. Units: ng/uL

| ANALYTE | RT | RESPONSE | BREAKDOWN (%) | LIMIT | # |
|---|---|---|---|---|---|
| Endrin | 9.07 | 99984521 | 4.21 | 15 | |
| Endrin aldehyde | 10.30 | 181302 | | | |
| Endrin ketone | 11.40 | 4213651 | | | |

| ANALYTE | RT | RESPONSE | BREAKDOWN (%) | LIMIT | # |
|---|---|---|---|---|---|
| 4,4'-DDT | 9.93 | 158239429 | 5.11 | 15 | |
| 4,4'-DDD | 9.42 | 5529310 | | | |
| 4,4'-DDE | 8.19 | 2999719 | | | |

FORM VII
PESTICIDES PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab Sample ID: PEM 240-50336/21 Calibration Date: 07/08/2012 19:27

Instrument ID: A2HP9 Calib Start Date: 06/27/2012 15:48

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 06/27/2012 17:59

Lab File ID: P9707021.D Conc. Units: ng/uL

| ANALYTE | RT | RESPONSE | BREAKDOWN (%) | LIMIT | # |
|---|---|---|---|---|---|
| Endrin | 10.71 | 186941464 | 4.79 | 15 | |
| Endrin aldehyde | 11.63 | 1598126 | | | |
| Endrin ketone | 12.80 | 7804203 | | | |

| ANALYTE | RT | RESPONSE | BREAKDOWN (%) | LIMIT | # |
|---|---|---|---|---|---|
| 4,4'-DDT | 11.53 | 277360232 | 5.45 | 15 | |
| 4,4'-DDD | 11.04 | 10326647 | | | |
| 4,4'-DDE | 10.05 | 5646822 | | | |

FORM VII
PESTICIDES PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab Sample ID: PEM 240-50850/27 Calibration Date: 07/16/2012 19:11

Instrument ID: A2HP9 Calib Start Date: 07/08/2012 19:52

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 07/08/2012 19:52

Lab File ID: P9701626.D Conc. Units: ng/uL

| ANALYTE | RT | RESPONSE | BREAKDOWN (%) | LIMIT | # |
|---|---|---|---|---|---|
| Endrin | 9.07 | 126549723 | 4.87 | 15 | |
| Endrin aldehyde | 10.30 | 1839080 | | | |
| Endrin ketone | 11.40 | 4640556 | | | |

| ANALYTE | RT | RESPONSE | BREAKDOWN (%) | LIMIT | # |
|---|---|---|---|---|---|
| 4,4'-DDT | 9.92 | 174843513 | 6.93 | 15 | |
| 4,4'-DDD | 9.42 | 11508805 | | | |
| 4,4'-DDE | 8.17 | 1501946 | | | |

FORM VII
PESTICIDES PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab Sample ID: PEM 240-50850/27 Calibration Date: 07/16/2012 19:11

Instrument ID: A2HP9 Calib Start Date: 07/08/2012 19:52

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 07/08/2012 19:52

Lab File ID: P9701626.D Conc. Units: ng/uL

| ANALYTE | RT | RESPONSE | BREAKDOWN (%) | LIMIT | # |
|---|---|---|---|---|---|
| Endrin | 10.70 | 199826560 | 5.67 | 15 | |
| Endrin aldehyde | 11.62 | 814355 | | | |
| Endrin ketone | 12.78 | 11195177 | | | |

| ANALYTE | RT | RESPONSE | BREAKDOWN (%) | LIMIT | # |
|---|---|---|---|---|---|
| 4,4'-DDT | 11.52 | 268622292 | 7.08 | 15 | |
| 4,4'-DDD | 11.03 | 17973578 | | | |
| 4,4'-DDE | 10.04 | 2505078 | | | |

FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab Sample ID: ICV 240-50336/28 Calibration Date: 07/08/2012 22:19

Instrument ID: A2HP9 Calib Start Date: 07/08/2012 19:52

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 07/08/2012 19:52

Lab File ID: P9707028.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| alpha-BHC | Ave | 3319457263 | 3678229760 | | 0.0277 | 0.0250 | 10.8 | 20.0 |
| gamma-BHC (Lindane) | Ave | 2820358115 | 3127067280 | | 0.0277 | 0.0250 | 10.9 | 20.0 |
| beta-BHC | Ave | 1156223303 | 1299898160 | | 0.0281 | 0.0250 | 12.4 | 20.0 |
| delta-BHC | Ave | 2705798302 | 3061254320 | | 0.0283 | 0.0250 | 13.1 | 20.0 |
| Heptachlor | Ave | 2090067348 | 2235577320 | | 0.0267 | 0.0250 | 7.0 | 20.0 |
| Aldrin | Ave | 2944944804 | 3276140160 | | 0.0278 | 0.0250 | 11.2 | 20.0 |
| Heptachlor epoxide | Ave | 2369341807 | 2746122360 | | 0.0290 | 0.0250 | 15.9 | 20.0 |
| gamma-Chlordane | Ave | 2587930618 | 2902050120 | | 0.0280 | 0.0250 | 12.1 | 20.0 |
| alpha-Chlordane | Ave | 2634476129 | 2863524000 | | 0.0272 | 0.0250 | 8.7 | 20.0 |
| Endosulfan I | Ave | 2123720179 | 2427202120 | | 0.0286 | 0.0250 | 14.3 | 20.0 |
| 4,4'-DDE | Ave | 2559101248 | 2858225040 | | 0.0279 | 0.0250 | 11.7 | 20.0 |
| Dieldrin | Ave | 2128170588 | 2479848320 | | 0.0291 | 0.0250 | 16.5 | 20.0 |
| Endrin | Ave | 1888392984 | 2091300320 | | 0.0277 | 0.0250 | 10.7 | 20.0 |
| 4,4'-DDD | Ave | 1388922395 | 1553705520 | | 0.0280 | 0.0250 | 11.9 | 20.0 |
| Endosulfan II | Ave | 1943474130 | 2222041400 | | 0.0286 | 0.0250 | 14.3 | 20.0 |
| 4,4'-DDT | Ave | 1307636762 | 1391791320 | | 0.0266 | 0.0250 | 6.4 | 20.0 |
| Endrin aldehyde | Ave | 1300527809 | 1322491200 | | 0.0254 | 0.0250 | 1.7 | 20.0 |
| Methoxychlor | Ave | 571099057 | 600079720 | | 0.0263 | 0.0250 | 5.1 | 20.0 |
| Endosulfan sulfate | Ave | 1634356115 | 1760817160 | | 0.0269 | 0.0250 | 7.7 | 20.0 |
| Endrin ketone | Ave | 1705376826 | 1787903000 | | 0.0262 | 0.0250 | 4.8 | 20.0 |

FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab Sample ID: ICV 240-50336/28 Calibration Date: 07/08/2012 22:19

Instrument ID: A2HP9 Calib Start Date: 07/08/2012 19:52

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 07/08/2012 19:52

Lab File ID: P9707028.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| alpha-BHC | Ave | 7402465944 | 7980167400 | | 0.0270 | 0.0250 | 7.8 | 20.0 |
| gamma-BHC (Lindane) | Ave | 6249247478 | 6775370880 | | 0.0271 | 0.0250 | 8.4 | 20.0 |
| beta-BHC | Ave | 2626833102 | 2887161200 | | 0.0275 | 0.0250 | 9.9 | 20.0 |
| delta-BHC | Ave | 5894028418 | 6417975840 | | 0.0272 | 0.0250 | 8.9 | 20.0 |
| Heptachlor | Ave | 4783431959 | 4947495400 | | 0.0259 | 0.0250 | 3.4 | 20.0 |
| Aldrin | Ave | 6053314181 | 6565374320 | | 0.0271 | 0.0250 | 8.5 | 20.0 |
| Heptachlor epoxide | Ave | 4932208419 | 5450411680 | | 0.0276 | 0.0250 | 10.5 | 20.0 |
| gamma-Chlordane | Ave | 4930753495 | 5382550320 | | 0.0273 | 0.0250 | 9.2 | 20.0 |
| alpha-Chlordane | Ave | 4797382486 | 5086603360 | | 0.0265 | 0.0250 | 6.0 | 20.0 |
| Endosulfan I | Ave | 4010742093 | 4468851960 | | 0.0279 | 0.0250 | 11.4 | 20.0 |
| 4,4'-DDE | Ave | 4226110624 | 4805847920 | | 0.0284 | 0.0250 | 13.7 | 20.0 |
| Dieldrin | Ave | 4143607423 | 4696813760 | | 0.0283 | 0.0250 | 13.4 | 20.0 |
| Endrin | Ave | 3547771654 | 3867581280 | | 0.0273 | 0.0250 | 9.0 | 20.0 |
| 4,4'-DDD | Ave | 2500399289 | 2568829160 | | 0.0257 | 0.0250 | 2.7 | 20.0 |
| Endosulfan II | Ave | 3455320413 | 3864400880 | | 0.0280 | 0.0250 | 11.8 | 20.0 |
| 4,4'-DDT | Ave | 2258771458 | 2365702200 | | 0.0262 | 0.0250 | 4.7 | 20.0 |
| Endrin aldehyde | Ave | 2221766558 | 2254522400 | | 0.0254 | 0.0250 | 1.5 | 20.0 |
| Endosulfan sulfate | Ave | 2731696848 | 2900385760 | | 0.0265 | 0.0250 | 6.2 | 20.0 |
| Methoxychlor | Ave | 1014203097 | 1056096240 | | 0.0260 | 0.0250 | 4.1 | 20.0 |
| Endrin ketone | Ave | 2796067200 | 2799029200 | | 0.0250 | 0.0250 | 0.1 | 20.0 |

FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCV 240-50850/6  Calibration Date: 07/16/2012 09:47

Instrument ID: A2HP9  Calib Start Date: 07/08/2012 19:52

GC Column: CLP-1  ID: 0.53(mm)  Calib End Date: 07/08/2012 19:52

Lab File ID: P9701605.D  Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| alpha-BHC | Ave | 3319457263 | 3805280680 | | 0.0287 | 0.0250 | 14.6 | 15.0 |
| gamma-BHC (Lindane) | Ave | 2820358115 | 3254629600 | | 0.0288 | 0.0250 | 15.4* | 15.0 |
| beta-BHC | Ave | 1156223303 | 1359525360 | | 0.0294 | 0.0250 | 17.6* | 15.0 |
| delta-BHC | Ave | 2705798302 | 3212760600 | | 0.0297 | 0.0250 | 18.7* | 15.0 |
| Heptachlor | Ave | 2090067348 | 2641710400 | | 0.0316 | 0.0250 | 26.4* | 15.0 |
| Aldrin | Ave | 2944944804 | 3265543360 | | 0.0277 | 0.0250 | 10.9 | 15.0 |
| Heptachlor epoxide | Ave | 2369341807 | 2910543120 | | 0.0307 | 0.0250 | 22.8* | 15.0 |
| gamma-Chlordane | Ave | 2587930618 | 3018636720 | | 0.0292 | 0.0250 | 16.6* | 15.0 |
| alpha-Chlordane | Ave | 2634476129 | 3048915320 | | 0.0289 | 0.0250 | 15.7* | 15.0 |
| Endosulfan I | Ave | 2123720179 | 2636626080 | | 0.0310 | 0.0250 | 24.2* | 15.0 |
| 4,4'-DDE | Ave | 2559101248 | 2887495680 | | 0.0282 | 0.0250 | 12.8 | 15.0 |
| Dieldrin | Ave | 2128170588 | 2759032360 | | 0.0324 | 0.0250 | 29.6* | 15.0 |
| Endrin | Ave | 1888392984 | 2343255440 | | 0.0310 | 0.0250 | 24.1* | 15.0 |
| 4,4'-DDD | Ave | 1388922395 | 1650831680 | | 0.0297 | 0.0250 | 18.9* | 15.0 |
| Endosulfan II | Ave | 1943474130 | 2371285440 | | 0.0305 | 0.0250 | 22.0* | 15.0 |
| 4,4'-DDT | Ave | 1307636762 | 1323078360 | | 0.0253 | 0.0250 | 1.2 | 15.0 |
| Endrin aldehyde | Ave | 1300527809 | 1524448120 | | 0.0293 | 0.0250 | 17.2* | 15.0 |
| Methoxychlor | Ave | 571099057 | 594883200 | | 0.0260 | 0.0250 | 4.2 | 15.0 |
| Endosulfan sulfate | Ave | 1634356115 | 1836116040 | | 0.0281 | 0.0250 | 12.3 | 15.0 |
| Endrin ketone | Ave | 1705376826 | 1946489840 | | 0.0285 | 0.0250 | 14.1 | 15.0 |
| Tetrachloro-m-xylene | Ave | 2122886024 | 2325147600 | | 0.0274 | 0.0250 | 9.5 | 15.0 |
| DCB Decachlorobiphenyl | Ave | 1691287227 | 1750457800 | | 0.0259 | 0.0250 | 3.5 | 15.0 |

FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCV 240-50850/6 Calibration Date: 07/16/2012 09:47

Instrument ID: A2HP9 Calib Start Date: 07/08/2012 19:52

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 07/08/2012 19:52

Lab File ID: P9701605.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| alpha-BHC | Ave | 7402465944 | 7552845440 | | 0.0255 | 0.0250 | 2.0 | 15.0 |
| gamma-BHC (Lindane) | Ave | 6249247478 | 6436308640 | | 0.0257 | 0.0250 | 3.0 | 15.0 |
| beta-BHC | Ave | 2626833102 | 2736236200 | | 0.0260 | 0.0250 | 4.2 | 15.0 |
| delta-BHC | Ave | 5894028418 | 6152890160 | | 0.0261 | 0.0250 | 4.4 | 15.0 |
| Heptachlor | Ave | 4783431959 | 5217912000 | | 0.0273 | 0.0250 | 9.1 | 15.0 |
| Aldrin | Ave | 6053314181 | 6172741320 | | 0.0255 | 0.0250 | 2.0 | 15.0 |
| Heptachlor epoxide | Ave | 4932208419 | 5221874640 | | 0.0265 | 0.0250 | 5.9 | 15.0 |
| gamma-Chlordane | Ave | 4930753495 | 5089712680 | | 0.0258 | 0.0250 | 3.2 | 15.0 |
| alpha-Chlordane | Ave | 4797382486 | 4922729880 | | 0.0257 | 0.0250 | 2.6 | 15.0 |
| Endosulfan I | Ave | 4010742093 | 4315624160 | | 0.0269 | 0.0250 | 7.6 | 15.0 |
| 4,4'-DDE | Ave | 4226110624 | 4213969560 | | 0.0249 | 0.0250 | -0.3 | 15.0 |
| Dieldrin | Ave | 4143607423 | 4419637760 | | 0.0267 | 0.0250 | 6.7 | 15.0 |
| Endrin | Ave | 3547771654 | 3785168280 | | 0.0267 | 0.0250 | 6.7 | 15.0 |
| 4,4'-DDD | Ave | 2500399289 | 2270615920 | | 0.0227 | 0.0250 | -9.2 | 15.0 |
| Endosulfan II | Ave | 3455320413 | 3818447680 | | 0.0276 | 0.0250 | 10.5 | 15.0 |
| 4,4'-DDT | Ave | 2258771458 | 1952182360 | | 0.0216 | 0.0250 | -13.6 | 15.0 |
| Endrin aldehyde | Ave | 2221766558 | 2284755840 | | 0.0257 | 0.0250 | 2.8 | 15.0 |
| Endosulfan sulfate | Ave | 2731696848 | 2709042520 | | 0.0248 | 0.0250 | -0.8 | 15.0 |
| Methoxychlor | Ave | 1014203097 | 887375840 | | 0.0219 | 0.0250 | -12.5 | 15.0 |
| Endrin ketone | Ave | 2796067200 | 2672065240 | | 0.0239 | 0.0250 | -4.4 | 15.0 |
| Tetrachloro-m-xylene | Ave | 4465678065 | 4336142400 | | 0.0243 | 0.0250 | -2.9 | 15.0 |
| DCB Decachlorobiphenyl | Ave | 2552003770 | 2386773120 | | 0.0234 | 0.0250 | -6.5 | 15.0 |

FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCV 240-50850/23 Calibration Date: 07/16/2012 17:28

Instrument ID: A2HP9 Calib Start Date: 07/08/2012 22:43

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 07/08/2012 22:43

Lab File ID: P9701622.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Toxaphene Peak 1 | Ave | 73077100 | 83058526 | | 1.14 | 1.00 | 13.7 | 15.0 |
| Toxaphene Peak 2 | Ave | 88801394 | 103337193 | | 1.16 | 1.00 | 16.4* | 15.0 |
| Toxaphene Peak 3 | Ave | 78088615 | 82660293 | | 1.06 | 1.00 | 5.9 | 15.0 |
| Toxaphene Peak 4 | Ave | 75987952 | 82211464 | | 1.08 | 1.00 | 8.2 | 15.0 |
| Toxaphene Peak 5 | Ave | 67083343 | 63071260 | | 0.940 | 1.00 | -6.0 | 15.0 |

FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCV 240-50850/23 Calibration Date: 07/16/2012 17:28

Instrument ID: A2HP9 Calib Start Date: 07/08/2012 22:43

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 07/08/2012 22:43

Lab File ID: P9701622.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Toxaphene Peak 1 | Ave | 144489782 | 135854180 | | 0.940 | 1.00 | -6.0 | 15.0 |
| Toxaphene Peak 2 | Ave | 159161174 | 147502731 | | 0.927 | 1.00 | -7.3 | 15.0 |
| Toxaphene Peak 3 | Ave | 129344196 | 115797820 | | 0.895 | 1.00 | -10.5 | 15.0 |
| Toxaphene Peak 4 | Lin1 | | 91048209 | | 0.827 | 1.00 | -17.3* | 15.0 |
| Toxaphene Peak 5 | Ave | 96696146 | 85188652 | | 0.881 | 1.00 | -11.9 | 15.0 |

FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCV 240-50850/24 Calibration Date: 07/16/2012 17:58

Instrument ID: A2HP9 Calib Start Date: 07/09/2012 01:10

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 07/09/2012 01:10

Lab File ID: P9701623.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Chlordane (technical) Peak 1 | Ave | 121644680 | 115294350 | | 0.0948 | 0.100 | -5.2 | 15.0 |
| Chlordane (technical) Peak 2 | Ave | 116200008 | 118850350 | | 0.102 | 0.100 | 2.3 | 15.0 |
| Chlordane (technical) Peak 3 | Ave | 356994900 | 366992270 | | 0.103 | 0.100 | 2.8 | 15.0 |
| Chlordane (technical) Peak 4 | Ave | 568837605 | 591228710 | | 0.104 | 0.100 | 3.9 | 15.0 |

FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCV 240-50850/24 Calibration Date: 07/16/2012 17:58

Instrument ID: A2HP9 Calib Start Date: 07/09/2012 01:10

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 07/09/2012 01:10

Lab File ID: P9701623.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Chlordane (technical) Peak 1 | Ave | 273956029 | 253252580 | | 0.0924 | 0.100 | -7.6 | 15.0 |
| Chlordane (technical) Peak 2 | Lin1 | | 241587000 | | 0.0974 | 0.100 | -2.6 | 15.0 |
| Chlordane (technical) Peak 3 | Ave | 617299926 | 628049870 | | 0.102 | 0.100 | 1.7 | 15.0 |
| Chlordane (technical) Peak 4 | Ave | 587434243 | 551934340 | | 0.0940 | 0.100 | -6.0 | 15.0 |

FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCV 240-50850/25  Calibration Date: 07/16/2012 18:22

Instrument ID: A2HP9  Calib Start Date: 07/08/2012 19:52

GC Column: CLP-1  ID: 0.53(mm)  Calib End Date: 07/08/2012 19:52

Lab File ID: P9701624.D  Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| alpha-BHC | Ave | 3319457263 | 3753957760 | | 0.0283 | 0.0250 | 13.1 | 15.0 |
| gamma-BHC (Lindane) | Ave | 2820358115 | 3303904760 | | 0.0293 | 0.0250 | 17.1* | 15.0 |
| beta-BHC | Ave | 1156223303 | 1368383720 | | 0.0296 | 0.0250 | 18.3* | 15.0 |
| delta-BHC | Ave | 2705798302 | 3308551480 | | 0.0306 | 0.0250 | 22.3* | 15.0 |
| Heptachlor | Ave | 2090067348 | 2815524520 | | 0.0337 | 0.0250 | 34.7* | 15.0 |
| Aldrin | Ave | 2944944804 | 3158259320 | | 0.0268 | 0.0250 | 7.2 | 15.0 |
| Heptachlor epoxide | Ave | 2369341807 | 2939425320 | | 0.0310 | 0.0250 | 24.1* | 15.0 |
| gamma-Chlordane | Ave | 2587930618 | 3015172800 | | 0.0291 | 0.0250 | 16.5* | 15.0 |
| alpha-Chlordane | Ave | 2634476129 | 3025966600 | | 0.0287 | 0.0250 | 14.9 | 15.0 |
| Endosulfan I | Ave | 2123720179 | 2658389200 | | 0.0313 | 0.0250 | 25.2* | 15.0 |
| 4,4'-DDE | Ave | 2559101248 | 2895132840 | | 0.0283 | 0.0250 | 13.1 | 15.0 |
| Dieldrin | Ave | 2128170588 | 2811322120 | | 0.0330 | 0.0250 | 32.1* | 15.0 |
| Endrin | Ave | 1888392984 | 2489038760 | | 0.0330 | 0.0250 | 31.8* | 15.0 |
| 4,4'-DDD | Ave | 1388922395 | 1972633320 | | 0.0355 | 0.0250 | 42.0* | 15.0 |
| Endosulfan II | Ave | 1943474130 | 2363500480 | | 0.0304 | 0.0250 | 21.6* | 15.0 |
| 4,4'-DDT | Ave | 1307636762 | 1443121440 | | 0.0276 | 0.0250 | 10.4 | 15.0 |
| Endrin aldehyde | Ave | 1300527809 | 1440841920 | | 0.0277 | 0.0250 | 10.8 | 15.0 |
| Methoxychlor | Ave | 571099057 | 658872880 | | 0.0288 | 0.0250 | 15.4* | 15.0 |
| Endosulfan sulfate | Ave | 1634356115 | 1968964280 | | 0.0301 | 0.0250 | 20.5* | 15.0 |
| Endrin ketone | Ave | 1705376826 | 1987927640 | | 0.0291 | 0.0250 | 16.6* | 15.0 |
| Tetrachloro-m-xylene | Ave | 2122886024 | 2225223320 | | 0.0262 | 0.0250 | 4.8 | 15.0 |
| DCB Decachlorobiphenyl | Ave | 1691287227 | 1682682360 | | 0.0249 | 0.0250 | -0.5 | 15.0 |

FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCV 240-50850/25 Calibration Date: 07/16/2012 18:22

Instrument ID: A2HP9 Calib Start Date: 07/08/2012 19:52

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 07/08/2012 19:52

Lab File ID: P9701624.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| alpha-BHC | Ave | 7402465944 | 7659606760 | | 0.0259 | 0.0250 | 3.5 | 15.0 |
| gamma-BHC (Lindane) | Ave | 6249247478 | 6708015280 | | 0.0268 | 0.0250 | 7.3 | 15.0 |
| beta-BHC | Ave | 2626833102 | 2820609760 | | 0.0268 | 0.0250 | 7.4 | 15.0 |
| delta-BHC | Ave | 5894028418 | 6621596440 | | 0.0281 | 0.0250 | 12.3 | 15.0 |
| Heptachlor | Ave | 4783431959 | 5649364840 | | 0.0295 | 0.0250 | 18.1* | 15.0 |
| Aldrin | Ave | 6053314181 | 6132957600 | | 0.0253 | 0.0250 | 1.3 | 15.0 |
| Heptachlor epoxide | Ave | 4932208419 | 5254818440 | | 0.0266 | 0.0250 | 6.5 | 15.0 |
| gamma-Chlordane | Ave | 4930753495 | 5031840240 | | 0.0255 | 0.0250 | 2.1 | 15.0 |
| alpha-Chlordane | Ave | 4797382486 | 4909894920 | | 0.0256 | 0.0250 | 2.3 | 15.0 |
| Endosulfan I | Ave | 4010742093 | 4287777240 | | 0.0267 | 0.0250 | 6.9 | 15.0 |
| 4,4'-DDE | Ave | 4226110624 | 4230430160 | | 0.0250 | 0.0250 | 0.1 | 15.0 |
| Dieldrin | Ave | 4143607423 | 4403663880 | | 0.0266 | 0.0250 | 6.3 | 15.0 |
| Endrin | Ave | 3547771654 | 3933689920 | | 0.0277 | 0.0250 | 10.9 | 15.0 |
| 4,4'-DDD | Ave | 2500399289 | 2914577200 | | 0.0291 | 0.0250 | 16.6* | 15.0 |
| Endosulfan II | Ave | 3455320413 | 3442690320 | | 0.0249 | 0.0250 | -0.4 | 15.0 |
| 4,4'-DDT | Ave | 2258771458 | 2082263000 | | 0.0230 | 0.0250 | -7.8 | 15.0 |
| Endrin aldehyde | Ave | 2221766558 | 2077119920 | | 0.0234 | 0.0250 | -6.5 | 15.0 |
| Endosulfan sulfate | Ave | 2731696848 | 2908861840 | | 0.0266 | 0.0250 | 6.5 | 15.0 |
| Methoxychlor | Ave | 1014203097 | 910828200 | | 0.0225 | 0.0250 | -10.2 | 15.0 |
| Endrin ketone | Ave | 2796067200 | 2703883000 | | 0.0242 | 0.0250 | -3.3 | 15.0 |
| Tetrachloro-m-xylene | Ave | 4465678065 | 4251425840 | | 0.0238 | 0.0250 | -4.8 | 15.0 |
| DCB Decachlorobiphenyl | Ave | 2552003770 | 2470086560 | | 0.0242 | 0.0250 | -3.2 | 15.0 |

FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCV 240-50850/26 Calibration Date: 07/16/2012 18:47

Instrument ID: A2HP9 Calib Start Date: 07/07/2012 11:44

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 07/07/2012 11:44

Lab File ID: P9701625.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Hexachlorobenzene | Ave | 3598149652 | 3698122775 | | 0.0411 | 0.0400 | 2.8 | 15.0 |
| Isodrin | Ave | 2695425928 | 2896514300 | | 0.0215 | 0.0200 | 7.5 | 15.0 |
| Kepone | Qua | | 266085913 | | 0.258 | 0.320 | -19.3* | 15.0 |

FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCV 240-50850/26  Calibration Date: 07/16/2012 18:47

Instrument ID: A2HP9  Calib Start Date: 07/07/2012 11:44

GC Column: CLP-2  ID: 0.53(mm)  Calib End Date: 07/07/2012 11:44

Lab File ID: P9701625.D  Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Hexachlorobenzene | Ave | 8059762196 | 7592337800 | | 0.0377 | 0.0400 | -5.8 | 15.0 |
| Isodrin | Ave | 5283051012 | 5328995350 | | 0.0202 | 0.0200 | 0.9 | 15.0 |
| Kepone | Qua | | 300800506 | | 0.304 | 0.320 | -5.2 | 15.0 |

FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCV 240-50850/47  Calibration Date: 07/17/2012 03:17

Instrument ID: A2HP9  Calib Start Date: 07/08/2012 22:43

GC Column: CLP-1  ID: 0.53(mm)  Calib End Date: 07/08/2012 22:43

Lab File ID: P9701646.D  Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Toxaphene Peak 1 | Ave | 73077100 | 77065423 | | 1.05 | 1.00 | 5.5 | 15.0 |
| Toxaphene Peak 2 | Ave | 88801394 | 97082129 | | 1.09 | 1.00 | 9.3 | 15.0 |
| Toxaphene Peak 3 | Ave | 78088615 | 77445952 | | 0.990 | 1.00 | -0.8 | 15.0 |
| Toxaphene Peak 4 | Ave | 75987952 | 74463567 | | 0.980 | 1.00 | -2.0 | 15.0 |
| Toxaphene Peak 5 | Ave | 67083343 | 59007994 | | 0.880 | 1.00 | -12.0 | 15.0 |

FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCV 240-50850/47  Calibration Date: 07/17/2012 03:17

Instrument ID: A2HP9  Calib Start Date: 07/08/2012 22:43

GC Column: CLP-2  ID: 0.53(mm)  Calib End Date: 07/08/2012 22:43

Lab File ID: P9701646.D  Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Toxaphene Peak 1 | Ave | 144489782 | 132132251 | | 0.915 | 1.00 | -8.6 | 15.0 |
| Toxaphene Peak 2 | Ave | 159161174 | 142939650 | | 0.898 | 1.00 | -10.2 | 15.0 |
| Toxaphene Peak 3 | Ave | 129344196 | 111456012 | | 0.862 | 1.00 | -13.8 | 15.0 |
| Toxaphene Peak 4 | Lin1 | | 90573368 | | 0.823 | 1.00 | -17.7* | 15.0 |
| Toxaphene Peak 5 | Ave | 96696146 | 78630158 | | 0.813 | 1.00 | -18.7* | 15.0 |

13.8%

FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCV 240-50850/48 Calibration Date: 07/17/2012 03:42

Instrument ID: A2HP9 Calib Start Date: 07/09/2012 01:10

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 07/09/2012 01:10

Lab File ID: P9701647.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Chlordane (technical) Peak 1 | Ave | 121644680 | 113265100 | | 0.0931 | 0.100 | -6.9 | 15.0 |
| Chlordane (technical) Peak 2 | Ave | 116200008 | 120102920 | | 0.103 | 0.100 | 3.4 | 15.0 |
| Chlordane (technical) Peak 3 | Ave | 356994900 | 380750530 | | 0.107 | 0.100 | 6.7 | 15.0 |
| Chlordane (technical) Peak 4 | Ave | 568837605 | 597465080 | | 0.105 | 0.100 | 5.0 | 15.0 |

FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCV 240-50850/48  Calibration Date: 07/17/2012 03:42

Instrument ID: A2HP9  Calib Start Date: 07/09/2012 01:10

GC Column: CLP-2  ID: 0.53(mm)  Calib End Date: 07/09/2012 01:10

Lab File ID: P9701647.D  Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Chlordane (technical) Peak 1 | Ave | 273956029 | 246637630 | | 0.0900 | 0.100 | -10.0 | 15.0 |
| Chlordane (technical) Peak 2 | Lin1 | | 243155420 | | 0.0981 | 0.100 | -1.9 | 15.0 |
| Chlordane (technical) Peak 3 | Ave | 617299926 | 623119580 | | 0.101 | 0.100 | 0.9 | 15.0 |
| Chlordane (technical) Peak 4 | Ave | 587434243 | 542950840 | | 0.0924 | 0.100 | -7.6 | 15.0 |

FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCV 240-50850/49 Calibration Date: 07/17/2012 04:06

Instrument ID: A2HP9 Calib Start Date: 07/08/2012 19:52

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 07/08/2012 19:52

Lab File ID: P9701648.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| alpha-BHC | Ave | 3319457263 | 3834998320 | | 0.0289 | 0.0250 | 15.5* | 15.0 |
| gamma-BHC (Lindane) | Ave | 2820358115 | 3385571400 | | 0.0300 | 0.0250 | 20.0* | 15.0 |
| beta-BHC | Ave | 1156223303 | 1391026520 | | 0.0301 | 0.0250 | 20.3* | 15.0 |
| delta-BHC | Ave | 2705798302 | 3287444360 | | 0.0304 | 0.0250 | 21.5* | 15.0 |
| Heptachlor | Ave | 2090067348 | 3043472640 | | 0.0364 | 0.0250 | 45.6* | 15.0 |
| Aldrin | Ave | 2944944804 | 3237210840 | | 0.0275 | 0.0250 | 9.9 | 15.0 |
| Heptachlor epoxide | Ave | 2369341807 | 3028594600 | | 0.0320 | 0.0250 | 27.8* | 15.0 |
| gamma-Chlordane | Ave | 2587930618 | 3089240600 | | 0.0298 | 0.0250 | 19.4* | 15.0 |
| alpha-Chlordane | Ave | 2634476129 | 3100293600 | | 0.0294 | 0.0250 | 17.7* | 15.0 |
| Endosulfan I | Ave | 2123720179 | 2784171480 | | 0.0328 | 0.0250 | 31.1* | 15.0 |
| 4,4'-DDE | Ave | 2559101248 | 2966321920 | | 0.0290 | 0.0250 | 15.9* | 15.0 |
| Dieldrin | Ave | 2128170588 | 2935736720 | | 0.0345 | 0.0250 | 37.9* | 15.0 |
| Endrin | Ave | 1888392984 | 2664319600 | | 0.0353 | 0.0250 | 41.1* | 15.0 |
| 4,4'-DDD | Ave | 1388922395 | 2126528400 | | 0.0383 | 0.0250 | 53.1* | 15.0 |
| Endosulfan II | Ave | 1943474130 | 2466072160 | | 0.0317 | 0.0250 | 26.9* | 15.0 |
| 4,4'-DDT | Ave | 1307636762 | 1604860280 | | 0.0307 | 0.0250 | 22.7* | 15.0 |
| Endrin aldehyde | Ave | 1300527809 | 1682253720 | | 0.0323 | 0.0250 | 29.4* | 15.0 |
| Methoxychlor | Ave | 571099057 | 756953200 | | 0.0331 | 0.0250 | 32.5* | 15.0 |
| Endosulfan sulfate | Ave | 1634356115 | 2102504560 | | 0.0322 | 0.0250 | 28.6* | 15.0 |
| Endrin ketone | Ave | 1705376826 | 2239966680 | | 0.0328 | 0.0250 | 31.3* | 15.0 |
| Tetrachloro-m-xylene | Ave | 2122886024 | 2268981640 | | 0.0267 | 0.0250 | 6.9 | 15.0 |
| DCB Decachlorobiphenyl | Ave | 1691287227 | 1811951800 | | 0.0268 | 0.0250 | 7.1 | 15.0 |

FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCV 240-50850/49 Calibration Date: 07/17/2012 04:06

Instrument ID: A2HP9 Calib Start Date: 07/08/2012 19:52

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 07/08/2012 19:52

Lab File ID: P9701648.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| alpha-BHC | Ave | 7402465944 | 7906330040 | | 0.0267 | 0.0250 | 6.8 | 15.0 |
| gamma-BHC (Lindane) | Ave | 6249247478 | 6978224560 | | 0.0279 | 0.0250 | 11.7 | 15.0 |
| beta-BHC | Ave | 2626833102 | 2924685120 | | 0.0278 | 0.0250 | 11.3 | 15.0 |
| delta-BHC | Ave | 5894028418 | 6970506240 | | 0.0296 | 0.0250 | 18.3* | 15.0 |
| Heptachlor | Ave | 4783431959 | 6135999480 | | 0.0321 | 0.0250 | 28.3* | 15.0 |
| Aldrin | Ave | 6053314181 | 6312380040 | | 0.0261 | 0.0250 | 4.3 | 15.0 |
| Heptachlor epoxide | Ave | 4932208419 | 5470566240 | | 0.0277 | 0.0250 | 10.9 | 15.0 |
| gamma-Chlordane | Ave | 4930753495 | 5254399320 | | 0.0266 | 0.0250 | 6.6 | 15.0 |
| alpha-Chlordane | Ave | 4797382486 | 5080793920 | | 0.0265 | 0.0250 | 5.9 | 15.0 |
| Endosulfan I | Ave | 4010742093 | 4524121560 | | 0.0282 | 0.0250 | 12.8 | 15.0 |
| 4,4'-DDE | Ave | 4226110624 | 4427634120 | | 0.0262 | 0.0250 | 4.8 | 15.0 |
| Dieldrin | Ave | 4143607423 | 4612896080 | | 0.0278 | 0.0250 | 11.3 | 15.0 |
| Endrin | Ave | 3547771654 | 4201352880 | | 0.0296 | 0.0250 | 18.4* | 15.0 |
| 4,4'-DDD | Ave | 2500399289 | 3082261600 | | 0.0308 | 0.0250 | 23.3* | 15.0 |
| Endosulfan II | Ave | 3455320413 | 3832344600 | | 0.0277 | 0.0250 | 10.9 | 15.0 |
| 4,4'-DDT | Ave | 2258771458 | 2327251800 | | 0.0258 | 0.0250 | 3.0 | 15.0 |
| Endrin aldehyde | Ave | 2221766558 | 2494718080 | | 0.0281 | 0.0250 | 12.3 | 15.0 |
| Endosulfan sulfate | Ave | 2731696848 | 3170416680 | | 0.0290 | 0.0250 | 16.1* | 15.0 |
| Methoxychlor | Ave | 1014203097 | 1059980320 | | 0.0261 | 0.0250 | 4.5 | 15.0 |
| Endrin ketone | Ave | 2796067200 | 3109776040 | | 0.0278 | 0.0250 | 11.2 | 15.0 |
| Tetrachloro-m-xylene | Ave | 4465678065 | 4384502640 | | 0.0245 | 0.0250 | -1.8 | 15.0 |
| DCB Decachlorobiphenyl | Ave | 2552003770 | 2761879280 | | 0.0271 | 0.0250 | 8.2 | 15.0 |

FORM IV
PESTICIDES METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab Sample ID: MB 240-50725/3-A

Matrix: Water Date Extracted: 07/13/2012 10:01

Lab File ID:(1) P9701629.D Lab File ID:(2) P9701629.D

Date Analyzed:(1) 07/16/2012 20:24 Date Analyzed:(2) 07/16/2012 20:24

Instrument ID:(1) A2HP9 Instrument ID:(2) A2HP9

GC Column:(1) CLP-1 ID: 0.53(mm) GC Column:(2) CLP-2 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | DATE ANALYZED 1 | DATE ANALYZED 2 |
|---|---|---|---|
| MT-TCLP-8-10 | 240-13070-4 | 07/16/2012 19:35 | 07/16/2012 19:35 |
| MT-TCLP-8-10 MS | 240-13070-4 MS | 07/16/2012 19:59 | 07/16/2012 19:59 |
| | LCS 240-50725/4-A | 07/16/2012 20:48 | 07/16/2012 20:48 |

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13070-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-50725/3-A

Matrix: Solid | Lab File ID: P9701629.D

Analysis Method: 8081A | Date Collected:

Extraction Method: 3510C | Date Extracted: 07/13/2012 10:01

Sample wt/vol: 250(mL) | Date Analyzed: 07/16/2012 20:24

Con. Extract Vol.: 3(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 50850 | Units: mg/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 57-74-9 | Chlordane (technical) | 0.012 | U | 0.012 | 0.000079 |
| 72-20-8 | Endrin | 0.0012 | U | 0.0012 | 0.000026 |
| 58-89-9 | gamma-BHC (Lindane) | 0.0012 | U | 0.0012 | 0.000015 |
| 76-44-8 | Heptachlor | 0.0012 | U | 0.0012 | 0.000019 |
| 1024-57-3 | Heptachlor epoxide | 0.0012 | U | 0.0012 | 0.000017 |
| 72-43-5 | Methoxychlor | 0.0024 | U | 0.0024 | 0.000077 |
| 8001-35-2 | Toxaphene | 0.048 | U | 0.048 | 0.00077 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 2051-24-3 | DCB Decachlorobiphenyl | 92 | | 34-141 |
| 877-09-8 | Tetrachloro-m-xylene | 83 | | 46-122 |

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Client Sample ID:  Lab Sample ID: MB 240-50725/3-A

Matrix: Solid  Lab File ID: P9701629.D

Analysis Method: 8081A  Date Collected:

Extraction Method: 3510C  Date Extracted: 07/13/2012 10:01

Sample wt/vol: 250(mL)  Date Analyzed: 07/16/2012 20:24

Con. Extract Vol.: 3(mL)  Dilution Factor: 1

Injection Volume: 1(uL)  GC Column: CLP-1  ID: 0.53(mm)

% Moisture:  GPC Cleanup:(Y/N) N

Analysis Batch No.: 50850  Units: mg/L

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 2051-24-3 | DCB Decachlorobiphenyl | 107 | | 34-141 |
| 877-09-8 | Tetrachloro-m-xylene | 92 | | 46-122 |

FORM II
PESTICIDES SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Solid (TCLP) Level: Low

GC Column (1): CLP-1 ID: 0.53 (mm) GC Column (2): CLP-2 ID: 0.53 (mm)

| Client Sample ID | Lab Sample ID | TCX1 # | TCX2 # | DCB1 # | DCB2 # |
|---|---|---|---|---|---|
| MT-TCLP-8-10 | 240-13070-4 | 91 | 81 | 103 | 88 |
| | MB 240-50725/3-A | 92 | 83 | 107 | 92 |
| | LCS 240-50725/4-A | 104 | 91 | 141 | 106 |
| MT-TCLP-8-10 MS | 240-13070-4 MS | 97 | 87 | 101 | 93 |

| | QC LIMITS |
|---|---|
| TCX = Tetrachloro-m-xylene | 46-122 |
| DCB = DCB Decachlorobiphenyl | 34-141 |

# Column to be used to flag recovery values

FORM II 8081A

FORM III
PESTICIDES LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P9701630.D

Lab ID: LCS 240-50725/4-A Client ID:

| COMPOUND | SPIKE ADDED (mg/L) | LCS CONCENTRATION (mg/L) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| Endrin | 0.00200 | 0.00223 J | 111 | 59-136 | |
| gamma-BHC (Lindane) | 0.00200 | 0.00207 J | 104 | 59-137 | |
| Heptachlor | 0.00200 | 0.00245 J | 123 | 63-123 | |
| Heptachlor epoxide | 0.00200 | 0.00219 J | 110 | 59-141 | |
| Methoxychlor | 0.00400 | 0.00425 J | 106 | 42-141 | |

# Column to be used to flag recovery and RPD values

FORM III 8081A

FORM III
PESTICIDES MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Solid (TCLP) Level: Low Lab File ID: P9701628.D

Lab ID: 240-13070-4 MS Client ID: MT-TCLP-8-10 MS

| COMPOUND | SPIKE ADDED (mg/L) | SAMPLE CONCENTRATION (mg/L) | MS CONCENTRATION (mg/L) | MS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|---|
| Endrin | 0.00200 | 0.0012 U | 0.00223 J | 111 | 50-150 | |
| gamma-BHC (Lindane) | 0.00200 | 0.0012 U | 0.00196 J | 98 | 50-150 | |
| Heptachlor | 0.00200 | 0.0012 U | 0.00242 J | 121 | 50-150 | |
| Heptachlor epoxide | 0.00200 | 0.0012 U | 0.00215 J | 108 | 50-150 | |
| Methoxychlor | 0.00400 | 0.0024 U | 0.00409 J | 102 | 50-150 | |

# Column to be used to flag recovery and RPD values

FORM III 8081A

FORM VIII
PESTICIDES ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Sample No.: CCV 240-50850/6 Date Analyzed: 07/16/2012 09:47

Instrument ID: A2HP9 GC Column: CLP-1 ID: 0.53(mm)

Lab File ID (Standard): P9701605.D Heated Purge: (Y/N) N

Calibration ID: 10060

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

| | | | | TCX | DCB | |
|---|---|---|---|---|---|---|
| | | | | RT # | RT # | |
| CONTINUING CALIBRATION SURROGATE | | | | 3.62 | 12.98 | |
| UPPER LIMIT | | | | 3.65 | 13.01 | |
| LOWER LIMIT | | | | 3.59 | 12.95 | |
| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | LAB FILE ID | | | |
| CCV 240-50850/6 CCVRT | | 07/16/2012 09:47 | P9701605.D | 3.62 | 12.98 | |
| CCV 240-50850/25 | | 07/16/2012 18:22 | P9701624.D | 3.62 | 12.98 | |
| PEM 240-50850/27 | | 07/16/2012 19:11 | P9701626.D | 3.61 | | |
| 240-13070-4 | MT-TCLP-8-10 | 07/16/2012 19:35 | P9701627.D | 3.62 | 12.98 | |
| 240-13070-4 MS | MT-TCLP-8-10 MS | 07/16/2012 19:59 | P9701628.D | 3.62 | 12.98 | |
| MB 240-50725/3-A | | 07/16/2012 20:24 | P9701629.D | 3.62 | 12.98 | |
| LCS 240-50725/4-A | | 07/16/2012 20:48 | P9701630.D | 3.62 | 12.98 | |
| CCV 240-50850/49 | | 07/17/2012 04:06 | P9701648.D | 3.62 | 12.98 | |

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

TCX RT Limit = ± 0.03 minutes of surrogate RT
DCB RT Limit = ± 0.03 minutes of surrogate RT

# Column used to flag values outside QC limits

FORM VIII 8081A

FORM VIII
PESTICIDES ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Sample No.: CCV 240-50850/6  Date Analyzed: 07/16/2012 09:47

Instrument ID: A2HP9  GC Column: CLP-2  ID: 0.53(mm)

Lab File ID (Standard): P9701605.D  Heated Purge: (Y/N) N

Calibration ID: 10061

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

| | | | | TCX | DCB | |
|---|---|---|---|---|---|---|
| | | | | RT # | RT # | |
| CONTINUING CALIBRATION SURROGATE | | | | 4.27 | 14.54 | |
| UPPER LIMIT | | | | 4.30 | 14.57 | |
| LOWER LIMIT | | | | 4.24 | 14.51 | |
| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | LAB FILE ID | | | |
| CCV 240-50850/6 CCVRT | | 07/16/2012 09:47 | P9701605.D | 4.27 | 14.54 | |
| CCV 240-50850/25 | | 07/16/2012 18:22 | P9701624.D | 4.27 | 14.54 | |
| PEM 240-50850/27 | | 07/16/2012 19:11 | P9701626.D | 4.27 | | |
| 240-13070-4 | MT-TCLP-8-10 | 07/16/2012 19:35 | P9701627.D | 4.27 | 14.54 | |
| 240-13070-4 MS | MT-TCLP-8-10 MS | 07/16/2012 19:59 | P9701628.D | 4.27 | 14.54 | |
| MB 240-50725/3-A | | 07/16/2012 20:24 | P9701629.D | 4.27 | 14.54 | |
| LCS 240-50725/4-A | | 07/16/2012 20:48 | P9701630.D | 4.28 | 14.54 | |
| CCV 240-50850/49 | | 07/17/2012 04:06 | P9701648.D | 4.27 | 14.54 | |

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

TCX RT Limit = ± 0.03 minutes of surrogate RT
DCB RT Limit = ± 0.03 minutes of surrogate RT

# Column used to flag values outside QC limits

FORM VIII 8081A

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Instrument ID: A2HP11 Start Date: 07/01/2012 15:46

Analysis Batch Number: 49457 End Date: 07/03/2012 08:53

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| STD0025 240-49457/3 IC | | 07/01/2012 15:46 | 1 | | CLP-1 0.53(mm) |
| STD0025 240-49457/3 IC | | 07/01/2012 15:46 | 1 | P1100003.D | CLP-2 0.53(mm) |
| STD005 240-49457/4 IC | | 07/01/2012 15:59 | 1 | | CLP-1 0.53(mm) |
| STD005 240-49457/4 IC | | 07/01/2012 15:59 | 1 | P1100004.D | CLP-2 0.53(mm) |
| STD01 240-49457/5 IC | | 07/01/2012 16:13 | 1 | | CLP-1 0.53(mm) |
| STD01 240-49457/5 IC | | 07/01/2012 16:13 | 1 | P1100005.D | CLP-2 0.53(mm) |
| STD02 240-49457/6 IC | | 07/01/2012 16:27 | 1 | | CLP-1 0.53(mm) |
| STD02 240-49457/6 IC | | 07/01/2012 16:27 | 1 | P1100006.D | CLP-2 0.53(mm) |
| STD05 240-49457/7 IC | | 07/01/2012 16:40 | 1 | | CLP-1 0.53(mm) |
| STD05 240-49457/7 IC | | 07/01/2012 16:40 | 1 | P1100007.D | CLP-2 0.53(mm) |
| STD1 240-49457/8 IC | | 07/01/2012 16:54 | 1 | | CLP-1 0.53(mm) |
| STD1 240-49457/8 IC | | 07/01/2012 16:54 | 1 | P1100008.D | CLP-2 0.53(mm) |
| STD2 240-49457/9 IC | | 07/01/2012 17:08 | 1 | | CLP-1 0.53(mm) |
| STD2 240-49457/9 IC | | 07/01/2012 17:08 | 1 | P1100009.D | CLP-2 0.53(mm) |
| STD0025 240-49457/10 IC | | 07/01/2012 17:22 | 1 | | CLP-1 0.53(mm) |
| STD0025 240-49457/10 IC | | 07/01/2012 17:22 | 1 | P1100010.D | CLP-2 0.53(mm) |
| STD005 240-49457/11 IC | | 07/01/2012 17:35 | 1 | | CLP-1 0.53(mm) |
| STD005 240-49457/11 IC | | 07/01/2012 17:35 | 1 | P1100011.D | CLP-2 0.53(mm) |
| STD01 240-49457/12 IC | | 07/01/2012 17:49 | 1 | | CLP-1 0.53(mm) |
| STD01 240-49457/12 IC | | 07/01/2012 17:49 | 1 | P1100012.D | CLP-2 0.53(mm) |
| STD02 240-49457/13 IC | | 07/01/2012 18:03 | 1 | | CLP-1 0.53(mm) |
| STD02 240-49457/13 IC | | 07/01/2012 18:03 | 1 | P1100013.D | CLP-2 0.53(mm) |
| STD05 240-49457/14 IC | | 07/01/2012 18:16 | 1 | | CLP-1 0.53(mm) |
| STD05 240-49457/14 IC | | 07/01/2012 18:16 | 1 | P1100014.D | CLP-2 0.53(mm) |
| STD1 240-49457/15 IC | | 07/01/2012 18:30 | 1 | | CLP-1 0.53(mm) |
| STD1 240-49457/15 IC | | 07/01/2012 18:30 | 1 | P1100015.D | CLP-2 0.53(mm) |
| STD2 240-49457/16 IC | | 07/01/2012 18:44 | 1 | | CLP-1 0.53(mm) |
| STD2 240-49457/16 IC | | 07/01/2012 18:44 | 1 | P1100016.D | CLP-2 0.53(mm) |
| STD025 240-49457/17 IC | | 07/01/2012 18:57 | 1 | | CLP-1 0.53(mm) |
| STD025 240-49457/17 IC | | 07/01/2012 18:57 | 1 | P1100017.D | CLP-2 0.53(mm) |
| STD005 240-49457/18 IC | | 07/01/2012 19:11 | 1 | | CLP-1 0.53(mm) |
| STD005 240-49457/18 IC | | 07/01/2012 19:11 | 1 | P1100018.D | CLP-2 0.53(mm) |
| STD01 240-49457/19 IC | | 07/01/2012 19:25 | 1 | | CLP-1 0.53(mm) |
| STD01 240-49457/19 IC | | 07/01/2012 19:25 | 1 | P1100019.D | CLP-2 0.53(mm) |
| STD02 240-49457/20 IC | | 07/01/2012 19:38 | 1 | | CLP-1 0.53(mm) |
| STD02 240-49457/20 IC | | 07/01/2012 19:38 | 1 | P1100020.D | CLP-2 0.53(mm) |

8082A

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Instrument ID: A2HP11 Start Date: 07/01/2012 15:46

Analysis Batch Number: 49457 End Date: 07/03/2012 08:53

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| STD05 240-49457/21 IC | | 07/01/2012 19:52 | 1 | | CLP-1 0.53(mm) |
| STD05 240-49457/21 IC | | 07/01/2012 19:52 | 1 | P1100021.D | CLP-2 0.53(mm) |
| STD1 240-49457/22 IC | | 07/01/2012 20:06 | 1 | | CLP-1 0.53(mm) |
| STD1 240-49457/22 IC | | 07/01/2012 20:06 | 1 | P1100022.D | CLP-2 0.53(mm) |
| STD2 240-49457/23 IC | | 07/01/2012 20:19 | 1 | | CLP-1 0.53(mm) |
| STD2 240-49457/23 IC | | 07/01/2012 20:19 | 1 | P1100023.D | CLP-2 0.53(mm) |
| STD0025 240-49457/24 IC | | 07/01/2012 20:33 | 1 | | CLP-1 0.53(mm) |
| STD0025 240-49457/24 IC | | 07/01/2012 20:33 | 1 | P1100024.D | CLP-2 0.53(mm) |
| STD005 240-49457/25 IC | | 07/01/2012 20:46 | 1 | | CLP-1 0.53(mm) |
| STD005 240-49457/25 IC | | 07/01/2012 20:46 | 1 | P1100025.D | CLP-2 0.53(mm) |
| STD01 240-49457/26 IC | | 07/01/2012 21:00 | 1 | | CLP-1 0.53(mm) |
| STD01 240-49457/26 IC | | 07/01/2012 21:00 | 1 | P1100026.D | CLP-2 0.53(mm) |
| STD02 240-49457/27 IC | | 07/01/2012 21:14 | 1 | | CLP-1 0.53(mm) |
| STD02 240-49457/27 IC | | 07/01/2012 21:14 | 1 | P1100027.D | CLP-2 0.53(mm) |
| STD05 240-49457/28 IC | | 07/01/2012 21:27 | 1 | | CLP-1 0.53(mm) |
| STD05 240-49457/28 IC | | 07/01/2012 21:27 | 1 | P1100028.D | CLP-2 0.53(mm) |
| STD1 240-49457/29 IC | | 07/01/2012 21:41 | 1 | | CLP-1 0.53(mm) |
| STD1 240-49457/29 IC | | 07/01/2012 21:41 | 1 | P1100029.D | CLP-2 0.53(mm) |
| STD2 240-49457/30 IC | | 07/01/2012 21:55 | 1 | | CLP-1 0.53(mm) |
| STD2 240-49457/30 IC | | 07/01/2012 21:55 | 1 | P1100030.D | CLP-2 0.53(mm) |
| STD0025 240-49457/38 IC | | 07/02/2012 07:13 | 1 | | CLP-1 0.53(mm) |
| STD0025 240-49457/38 IC | | 07/02/2012 07:13 | 1 | | CLP-2 0.53(mm) |
| STD005 240-49457/39 IC | | 07/02/2012 07:26 | 1 | | CLP-1 0.53(mm) |
| STD005 240-49457/39 IC | | 07/02/2012 07:26 | 1 | | CLP-2 0.53(mm) |
| STD01 240-49457/40 IC | | 07/02/2012 07:40 | 1 | | CLP-1 0.53(mm) |
| STD01 240-49457/40 IC | | 07/02/2012 07:40 | 1 | | CLP-2 0.53(mm) |
| STD02 240-49457/41 IC | | 07/02/2012 07:54 | 1 | | CLP-1 0.53(mm) |
| STD02 240-49457/41 IC | | 07/02/2012 07:54 | 1 | | CLP-2 0.53(mm) |
| STD05 240-49457/42 IC | | 07/02/2012 08:07 | 1 | | CLP-1 0.53(mm) |
| STD05 240-49457/42 IC | | 07/02/2012 08:07 | 1 | | CLP-2 0.53(mm) |
| STD1 240-49457/43 IC | | 07/02/2012 08:21 | 1 | | CLP-1 0.53(mm) |
| STD1 240-49457/43 IC | | 07/02/2012 08:21 | 1 | | CLP-2 0.53(mm) |
| STD2 240-49457/44 IC | | 07/02/2012 08:35 | 1 | | CLP-1 0.53(mm) |
| STD2 240-49457/44 IC | | 07/02/2012 08:35 | 1 | | CLP-2 0.53(mm) |
| STD0025 240-49457/45 IC | | 07/02/2012 08:48 | 1 | | CLP-1 0.53(mm) |

8082A

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Instrument ID: A2HP11 Start Date: 07/01/2012 15:46

Analysis Batch Number: 49457 End Date: 07/03/2012 08:53

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| STD0025 240-49457/45 IC | | 07/02/2012 08:48 | 1 | | CLP-2 0.53(mm) |
| STD005 240-49457/46 IC | | 07/02/2012 09:02 | 1 | | CLP-1 0.53(mm) |
| STD005 240-49457/46 IC | | 07/02/2012 09:02 | 1 | | CLP-2 0.53(mm) |
| STD01 240-49457/47 IC | | 07/02/2012 09:15 | 1 | | CLP-1 0.53(mm) |
| STD01 240-49457/47 IC | | 07/02/2012 09:15 | 1 | | CLP-2 0.53(mm) |
| STD02 240-49457/48 IC | | 07/02/2012 09:29 | 1 | | CLP-1 0.53(mm) |
| STD02 240-49457/48 IC | | 07/02/2012 09:29 | 1 | | CLP-2 0.53(mm) |
| STD05 240-49457/49 IC | | 07/02/2012 09:43 | 1 | | CLP-1 0.53(mm) |
| STD05 240-49457/49 IC | | 07/02/2012 09:43 | 1 | | CLP-2 0.53(mm) |
| STD1 240-49457/50 IC | | 07/02/2012 09:56 | 1 | | CLP-1 0.53(mm) |
| STD1 240-49457/50 IC | | 07/02/2012 09:56 | 1 | | CLP-2 0.53(mm) |
| STD2 240-49457/51 IC | | 07/02/2012 10:10 | 1 | | CLP-1 0.53(mm) |
| STD2 240-49457/51 IC | | 07/02/2012 10:10 | 1 | | CLP-2 0.53(mm) |
| STD0025 240-49457/54 IC | | 07/03/2012 06:54 | 1 | | CLP-1 0.53(mm) |
| STD0025 240-49457/54 IC | | 07/03/2012 06:54 | 1 | P1100053.D | CLP-2 0.53(mm) |
| STD005 240-49457/55 IC | | 07/03/2012 07:08 | 1 | | CLP-1 0.53(mm) |
| STD005 240-49457/55 IC | | 07/03/2012 07:08 | 1 | P1100054.D | CLP-2 0.53(mm) |
| STD01 240-49457/56 IC | | 07/03/2012 07:21 | 1 | | CLP-1 0.53(mm) |
| STD01 240-49457/56 IC | | 07/03/2012 07:21 | 1 | P1100055.D | CLP-2 0.53(mm) |
| STD02 240-49457/57 IC | | 07/03/2012 07:35 | 1 | | CLP-1 0.53(mm) |
| STD02 240-49457/57 IC | | 07/03/2012 07:35 | 1 | P1100056.D | CLP-2 0.53(mm) |
| STD05 240-49457/58 ICRT | | 07/03/2012 07:48 | 1 | | CLP-1 0.53(mm) |
| STD05 240-49457/58 ICRT | | 07/03/2012 07:48 | 1 | P1100057.D | CLP-2 0.53(mm) |
| STD1 240-49457/59 IC | | 07/03/2012 08:02 | 1 | | CLP-1 0.53(mm) |
| STD1 240-49457/59 IC | | 07/03/2012 08:02 | 1 | P1100058.D | CLP-2 0.53(mm) |
| STD2 240-49457/60 IC | | 07/03/2012 08:16 | 1 | | CLP-1 0.53(mm) |
| STD2 240-49457/60 IC | | 07/03/2012 08:16 | 1 | P1100059.D | CLP-2 0.53(mm) |
| ICV 240-49457/61 | | 07/03/2012 08:53 | 1 | | CLP-1 0.53(mm) |
| ICV 240-49457/61 | | 07/03/2012 08:53 | 1 | P1100060.D | CLP-2 0.53(mm) |

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Instrument ID: A2HP11 Start Date: 07/23/2012 13:40

Analysis Batch Number: 51690 End Date: 07/23/2012 19:35

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| CCV 240-51690/3 CCVRT | | 07/23/2012 13:40 | 1 | | CLP-1 0.53(mm) |
| CCV 240-51690/3 CCVRT | | 07/23/2012 13:40 | 1 | P1100003.D | CLP-2 0.53(mm) |
| ZZZZZ | | 07/23/2012 13:54 | 1 | | CLP-1 0.53(mm) |
| 240-13070-2 | MT-SS18-0-2 | 07/23/2012 13:54 | 1 | P1100004.D | CLP-2 0.53(mm) |
| ZZZZZ | | 07/23/2012 14:07 | 1 | | CLP-1 0.53(mm) |
| 240-13070-3 | MT-SS18-8-10 | 07/23/2012 14:07 | 1 | P1100005.D | CLP-2 0.53(mm) |
| ZZZZZ | | 07/23/2012 14:21 | 1 | | CLP-1 0.53(mm) |
| 240-13070-5 | MT-SB17-0-2 | 07/23/2012 14:21 | 1 | P1100006.D | CLP-2 0.53(mm) |
| ZZZZZ | | 07/23/2012 14:35 | 1 | | CLP-1 0.53(mm) |
| 240-13070-6 | MT-SB17-8-10 | 07/23/2012 14:35 | 1 | P1100007.D | CLP-2 0.53(mm) |
| ZZZZZ | | 07/23/2012 16:38 | 1 | | CLP-1 0.53(mm) |
| MB 240-51346/23-A | | 07/23/2012 16:38 | 1 | P1100016.D | CLP-2 0.53(mm) |
| CCV 240-51690/17 | | 07/23/2012 16:51 | 1 | | CLP-1 0.53(mm) |
| CCV 240-51690/17 | | 07/23/2012 16:51 | 1 | P1100017.D | CLP-2 0.53(mm) |
| ZZZZZ | | 07/23/2012 19:21 | 1 | | CLP-1 0.53(mm) |
| LCS 240-51346/24-A | | 07/23/2012 19:21 | 1 | P1100028.D | CLP-2 0.53(mm) |
| CCV 240-51690/29 | | 07/23/2012 19:35 | 1 | | CLP-1 0.53(mm) |
| CCV 240-51690/29 | | 07/23/2012 19:35 | 1 | P1100029.D | CLP-2 0.53(mm) |

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-13070-1  Analy Batch No.: 49457

SDG No.:

Instrument ID: A2HP11  GC Column: CLP-2  ID: 0.53(mm)  Heated Purge: (Y/N) N

Calibration Start Date: 07/01/2012 15:46  Calibration End Date: 07/01/2012 17:08  Calibration ID: 9797

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD0025 240-49457/3 | P1100003.D |
| Level 2 | STD005 240-49457/4 | P1100004.D |
| Level 3 | STD01 240-49457/5 | P1100005.D |
| Level 4 | STD02 240-49457/6 | P1100006.D |
| Level 5 | STD05 240-49457/7 | P1100007.D |
| Level 6 | STD1 240-49457/8 | P1100008.D |
| Level 7 | STD2 240-49457/9 | P1100009.D |

| ANALYTE | CF | | | | CURVE TYPE | COEFFICIENT | | | # | MIN CF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 5 | LVL 2<br>LVL 6 | LVL 3<br>LVL 7 | LVL 4 | | B | M1 | M2 | | | | | | | | |
| PCB-1232 Peak 1 | 27512760<br>24482178 | 26508000<br>23138768 | 24643590<br>21841984 | 22739490 | Ave | | 24409538.6 | | | | 8.4 | | 20.0 | | | |
| PCB-1232 Peak 2 | 25887600<br>20338714 | 22153900<br>18940628 | 20682280<br>17958006 | 20039225 | Ave | | 20857193.2 | | | | 12.0 | | 20.0 | | | |
| PCB-1232 Peak 3 | 46267200<br>42513178 | 47054620<br>39968034 | 44223570<br>39534192 | 41394760 | Ave | | 42993650.6 | | | | 6.9 | | 20.0 | | | |
| PCB-1232 Peak 4 | 22224480<br>18567764 | 20831960<br>16956273 | 22154450<br>17157435 | 18101110 | Ave | | 19427638.9 | | | | 12.0 | | 20.0 | | | |
| PCB-1232 Peak 5 | 15919600<br>14488644 | 15575840<br>13170654 | 15464840<br>13561156 | 13917865 | Ave | | 14585514.1 | | | | 7.4 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13070-1 Analy Batch No.: 49457

SDG No.:

Instrument ID: A2HP11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/01/2012 17:22 Calibration End Date: 07/01/2012 18:44 Calibration ID: 9803

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD0025 240-49457/10 | P1100010.D |
| Level 2 | STD005 240-49457/11 | P1100011.D |
| Level 3 | STD01 240-49457/12 | P1100012.D |
| Level 4 | STD02 240-49457/13 | P1100013.D |
| Level 5 | STD05 240-49457/14 | P1100014.D |
| Level 6 | STD1 240-49457/15 | P1100015.D |
| Level 7 | STD2 240-49457/16 | P1100016.D |

| ANALYTE | CF | | | | CURVE TYPE | COEFFICIENT | | | # | MIN CF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 5 | LVL 2<br>LVL 6 | LVL 3<br>LVL 7 | LVL 4 | | B | M1 | M2 | | | | | | | | |
| PCB-1242 Peak 1 | 22197400<br>17857898 | 21984580<br>17085477 | 19807500<br>16518962 | 18012675 | Ave | | 19066356.1 | | | | 12.0 | | 20.0 | | | |
| PCB-1242 Peak 2 | 48703480<br>33567950 | 48037680<br>31724819 | 41736380<br>30219997 | 36212370 | Ave | | 38600382.3 | | | | 20.0 | | 20.0 | | | |
| PCB-1242 Peak 3 | 99096960<br>71633866 | 98317300<br>71110388 | 84145300<br>66617570 | 74988570 | Ave | | 80844279.1 | | | | 16.0 | | 20.0 | | | |
| PCB-1242 Peak 4 | 43505000<br>29411372 | 42770260<br>30701173 | 36545750<br>26985500 | 31288535 | Ave | | 34458227.1 | | | | 19.0 | | 20.0 | | | |
| PCB-1242 Peak 5 | 23119920<br>16773648 | 23112000<br>16398859 | 19597790<br>15106897 | 17900365 | Ave | | 18858497.0 | | | | 17.0 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-13070-1  Analy Batch No.: 49457

SDG No.:

Instrument ID: A2HP11  GC Column: CLP-2  ID: 0.53(mm)  Heated Purge: (Y/N) N

Calibration Start Date: 07/01/2012 18:57  Calibration End Date: 07/01/2012 20:19  Calibration ID: 9809

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD025 240-49457/17 | P1100017.D |
| Level 2 | STD005 240-49457/18 | P1100018.D |
| Level 3 | STD01 240-49457/19 | P1100019.D |
| Level 4 | STD02 240-49457/20 | P1100020.D |
| Level 5 | STD05 240-49457/21 | P1100021.D |
| Level 6 | STD1 240-49457/22 | P1100022.D |
| Level 7 | STD2 240-49457/23 | P1100023.D |

| ANALYTE | CF | | | | CURVE TYPE | COEFFICIENT | | | # | MIN CF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 5 | LVL 2<br>LVL 6 | LVL 3<br>LVL 7 | LVL 4 | | B | M1 | M2 | | | | | | | | |
| PCB-1248 Peak 1 | 55222560<br>46573152 | 54685680<br>44381447 | 52917700<br>44474613 | 48623645 | Ave | | 49554113.9 | | | | 9.5 | | 20.0 | | | |
| PCB-1248 Peak 2 | 45503040<br>37942130 | 44215840<br>36133994 | 43437550<br>35991882 | 39880765 | Ave | | 40443600.1 | | | | 9.8 | | 20.0 | | | |
| PCB-1248 Peak 3 | 60520520<br>52048020 | 61852100<br>49321717 | 59130620<br>50386289 | 53448880 | Ave | | 55244020.8 | | | | 9.3 | | 20.0 | | | |
| PCB-1248 Peak 4 | 73823640<br>62025754 | 73699140<br>58709010 | 71428320<br>61494202 | 63634605 | Ave | | 66402095.8 | | | | 9.6 | | 20.0 | | | |
| PCB-1248 Peak 5 | 33138800<br>27520388 | 31560460<br>25907483 | 29286150<br>26481174 | 28709580 | Ave | | 28943433.6 | | | | 9.1 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-13070-1  Analy Batch No.: 49457

SDG No.:

Instrument ID: A2HP11  GC Column: CLP-2  ID: 0.53(mm)  Heated Purge: (Y/N) N

Calibration Start Date: 07/01/2012 20:33  Calibration End Date: 07/01/2012 21:55  Calibration ID: 9815

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD0025 240-49457/24 | P1100024.D |
| Level 2 | STD005 240-49457/25 | P1100025.D |
| Level 3 | STD01 240-49457/26 | P1100026.D |
| Level 4 | STD02 240-49457/27 | P1100027.D |
| Level 5 | STD05 240-49457/28 | P1100028.D |
| Level 6 | STD1 240-49457/29 | P1100029.D |
| Level 7 | STD2 240-49457/30 | P1100030.D |

| ANALYTE | CF | | | | CURVE TYPE | COEFFICIENT | | | # | MIN CF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 5 | LVL 2<br>LVL 6 | LVL 3<br>LVL 7 | LVL 4 | | B | M1 | M2 | | | | | | | | |
| PCB-1221 Peak 1 | 14370280<br>12537432 | 13299940<br>11289924 | 13310670<br>10828683 | 13423890 | Ave | | 12722974.1 | | | | 9.9 | | 20.0 | | | |
| PCB-1221 Peak 2 | 10198400<br>8095238 | 9665040<br>7239833 | 8479320<br>6758886 | 8641945 | Ave | | 8439808.79 | | | | 15.0 | | 20.0 | | | |
| PCB-1221 Peak 3 | 34474520<br>31087900 | 32828060<br>27928080 | 32297880<br>26190353 | 32437380 | Ave | | 31034881.9 | | | | 9.5 | | 20.0 | | | |
| PCB-1254 Peak 1 | 56543840<br>46882660 | 49832720<br>42724844 | 51682820<br>41479544 | 48812750 | Ave | | 48279882.5 | | | | 11.0 | | 20.0 | | | |
| PCB-1254 Peak 2 | 61999400<br>52397554 | 55473080<br>47509966 | 57154840<br>46153953 | 54786210 | Ave | | 53639286.1 | | | | 10.0 | | 20.0 | | | |
| PCB-1254 Peak 3 | 100966320<br>86529768 | 90768520<br>79198748 | 94511010<br>77307084 | 89259805 | Ave | | 88363036.4 | | | | 9.4 | | 20.0 | | | |
| PCB-1254 Peak 4 | 71707240<br>58476662 | 63071120<br>55667641 | 66478310<br>55077201 | 59423810 | Ave | | 61414569.1 | | | | 9.9 | | 20.0 | | | |
| PCB-1254 Peak 5 | 93609560<br>82289700 | 84594960<br>74871500 | 89039660<br>73703545 | 83962515 | Ave | | 83153062.9 | | | | 8.6 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13070-1 Analy Batch No.: 49457

SDG No.:

Instrument ID: A2HP11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/03/2012 06:54 Calibration End Date: 07/03/2012 08:16 Calibration ID: 9853

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD0025 240-49457/54 | P1100053.D |
| Level 2 | STD005 240-49457/55 | P1100054.D |
| Level 3 | STD01 240-49457/56 | P1100055.D |
| Level 4 | STD02 240-49457/57 | P1100056.D |
| Level 5 | STD05 240-49457/58 | P1100057.D |
| Level 6 | STD1 240-49457/59 | P1100058.D |
| Level 7 | STD2 240-49457/60 | P1100059.D |

| ANALYTE | CF | | | | CURVE TYPE | COEFFICIENT | | | # | MIN CF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 5 | LVL 2<br>LVL 6 | LVL 3<br>LVL 7 | LVL 4 | | B | M1 | M2 | | | | | | | | |
| PCB-1016 Peak 1 | 23046560<br>19738260 | 22835280<br>20574940 | 22561990<br>17687409 | 22631060 | Ave | | 21296499.8 | | | | 9.5 | | 20.0 | | | |
| PCB-1016 Peak 2 | 51685760<br>39807368 | 47994320<br>37615533 | 47618260<br>33377050 | 45496350 | Ave | | 43370662.9 | | | | 15.0 | | 20.0 | | | |
| PCB-1016 Peak 3 | 95776000<br>83293732 | 94890080<br>85350968 | 94402770<br>78592000 | 92896095 | Ave | | 89314520.7 | | | | 7.6 | | 20.0 | | | |
| PCB-1016 Peak 4 | 41442760<br>37009010 | 40014420<br>37466827 | 40973490<br>32141780 | 41889465 | Ave | | 38705393.1 | | | | 8.9 | | 20.0 | | | |
| PCB-1016 Peak 5 | 32162280<br>29200488 | 28341300<br>29516696 | 31216590<br>23231623 | 32698420 | Ave | | 29481056.7 | | | | 11.0 | | 20.0 | | | |
| PCB-1260 Peak 1 | 81620680<br>70576832 | 91434820<br>69742795 | 74821740<br>66292194 | 74531645 | Ave | | 75574386.6 | | | | 11.0 | | 20.0 | | | |
| PCB-1260 Peak 2 | 101845440<br>97888264 | 102341720<br>91684774 | 95056340<br>88169923 | 95725120 | Ave | | 96101654.4 | | | | 5.4 | | 20.0 | | | |
| PCB-1260 Peak 3 | 66537000<br>53144464 | 64669120<br>58281743 | 61670850<br>56036239 | 60659825 | Ave | | 60142748.7 | | | | 7.8 | | 20.0 | | | |
| PCB-1260 Peak 4 | 151539400<br>124673044 | 149175760<br>141171353 | 150705800<br>138039559 | 142960030 | Ave | | 142609278 | | | | 6.6 | | 20.0 | | | |
| PCB-1260 Peak 5 | 97911600<br>80411314 | 96735780<br>88399134 | 94482080<br>86975104 | 90170405 | Ave | | 90726488.1 | | | | 6.8 | | 20.0 | | | |
| Tetrachloro-m-xylene | 1341397600<br>1182157640 | 1356570400<br>1321677180 | 1401964800<br>1146487850 | 1390614600 | Ave | | 1305838581 | | | | 7.7 | | 20.0 | | | |
| Decachlorobipheny1 | 1136629600<br>1079713720 | 1176089200<br>1166604820 | 1219685400<br>1032751080 | 1180219900 | Ave | | 1141670531 | | | | 5.7 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab Sample ID: ICV 240-49457/61 Calibration Date: 07/03/2012 08:53

Instrument ID: A2HP11 Calib Start Date: 07/03/2012 06:54

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 07/03/2012 08:16

Lab File ID: P1100060.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| PCB-1016 Peak 1 | Ave | 21296500 | 21018322 | | 0.987 | 1.00 | -1.3 | 20.0 |
| PCB-1016 Peak 2 | Ave | 43370663 | 38560753 | | 0.889 | 1.00 | -11.1 | 20.0 |
| PCB-1016 Peak 3 | Ave | 89314521 | 86732335 | | 0.971 | 1.00 | -2.9 | 20.0 |
| PCB-1016 Peak 4 | Ave | 38705393 | 38414907 | | 0.990 | 1.00 | -0.8 | 20.0 |
| PCB-1016 Peak 5 | Ave | 29481057 | 30230060 | | 1.03 | 1.00 | 2.5 | 20.0 |
| PCB-1260 Peak 1 | Ave | 75574387 | 70397533 | | 0.932 | 1.00 | -6.9 | 20.0 |
| PCB-1260 Peak 2 | Ave | 96101654 | 89531434 | | 0.932 | 1.00 | -6.8 | 20.0 |
| PCB-1260 Peak 3 | Ave | 60142749 | 59238659 | | 0.985 | 1.00 | -1.5 | 20.0 |
| PCB-1260 Peak 4 | Ave | 142609278 | 145668473 | | 1.02 | 1.00 | 2.1 | 20.0 |
| PCB-1260 Peak 5 | Ave | 90726488 | 89611659 | | 0.988 | 1.00 | -1.2 | 20.0 |

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCV 240-51690/3 Calibration Date: 07/23/2012 13:40

Instrument ID: A2HP11 Calib Start Date: 07/03/2012 06:54

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 07/03/2012 08:16

Lab File ID: P1100003.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| PCB-1016 Peak 1 | Ave | 21296500 | 21607720 | | 0.507 | 0.500 | 1.5 | 20.0 |
| PCB-1016 Peak 2 | Ave | 43370663 | 39991888 | | 0.461 | 0.500 | -7.8 | 20.0 |
| PCB-1016 Peak 3 | Ave | 89314521 | 88850968 | | 0.497 | 0.500 | -0.5 | 20.0 |
| PCB-1016 Peak 4 | Ave | 38705393 | 38057658 | | 0.492 | 0.500 | -1.7 | 20.0 |
| PCB-1016 Peak 5 | Ave | 29481057 | 29732768 | | 0.504 | 0.500 | 0.9 | 20.0 |
| PCB-1260 Peak 1 | Ave | 75574387 | 74485762 | | 0.493 | 0.500 | -1.4 | 20.0 |
| PCB-1260 Peak 2 | Ave | 96101654 | 105659952 | | 0.550 | 0.500 | 9.9 | 20.0 |
| PCB-1260 Peak 3 | Ave | 60142749 | 57033252 | | 0.474 | 0.500 | -5.2 | 20.0 |
| PCB-1260 Peak 4 | Ave | 142609278 | 136441904 | | 0.478 | 0.500 | -4.3 | 20.0 |
| PCB-1260 Peak 5 | Ave | 90726488 | 89093212 | | 0.491 | 0.500 | -1.8 | 20.0 |
| Tetrachloro-m-xylene | Ave | 1305838581 | 1283113760 | | 0.0246 | 0.0250 | -1.7 | 20.0 |
| Decachlorobiphenyl | Ave | 1141670531 | 1178663920 | | 0.0258 | 0.0250 | 3.2 | 20.0 |

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCV 240-51690/17  Calibration Date: 07/23/2012 16:51

Instrument ID: A2HP11  Calib Start Date: 07/03/2012 06:54

GC Column: CLP-2  ID: 0.53(mm)  Calib End Date: 07/03/2012 08:16

Lab File ID: P1100017.D  Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| PCB-1016 Peak 1 | Ave | 21296500 | 22337402 | | 0.524 | 0.500 | 4.9 | 20.0 |
| PCB-1016 Peak 2 | Ave | 43370663 | 42049122 | | 0.485 | 0.500 | -3.0 | 20.0 |
| PCB-1016 Peak 3 | Ave | 89314521 | 93470942 | | 0.523 | 0.500 | 4.7 | 20.0 |
| PCB-1016 Peak 4 | Ave | 38705393 | 39487788 | | 0.510 | 0.500 | 2.0 | 20.0 |
| PCB-1016 Peak 5 | Ave | 29481057 | 30958866 | | 0.525 | 0.500 | 5.0 | 20.0 |
| PCB-1260 Peak 1 | Ave | 75574387 | 75800688 | | 0.502 | 0.500 | 0.3 | 20.0 |
| PCB-1260 Peak 2 | Ave | 96101654 | 107142606 | | 0.557 | 0.500 | 11.5 | 20.0 |
| PCB-1260 Peak 3 | Ave | 60142749 | 56515612 | | 0.470 | 0.500 | -6.0 | 20.0 |
| PCB-1260 Peak 4 | Ave | 142609278 | 133984706 | | 0.470 | 0.500 | -6.0 | 20.0 |
| PCB-1260 Peak 5 | Ave | 90726488 | 86576378 | | 0.477 | 0.500 | -4.6 | 20.0 |
| Tetrachloro-m-xylene | Ave | 1305838581 | 1348685040 | | 0.0258 | 0.0250 | 3.3 | 20.0 |
| Decachlorobiphenyl | Ave | 1141670531 | 1104419200 | | 0.0242 | 0.0250 | -3.3 | 20.0 |

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCV 240-51690/29  Calibration Date: 07/23/2012 19:35

Instrument ID: A2HP11  Calib Start Date: 07/03/2012 06:54

GC Column: CLP-2  ID: 0.53(mm)  Calib End Date: 07/03/2012 08:16

Lab File ID: P1100029.D  Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| PCB-1016 Peak 1 | Ave | 21296500 | 20975568 | | 0.493 | 0.500 | -1.5 | 20.0 |
| PCB-1016 Peak 2 | Ave | 43370663 | 39536432 | | 0.456 | 0.500 | -8.8 | 20.0 |
| PCB-1016 Peak 3 | Ave | 89314521 | 87064240 | | 0.487 | 0.500 | -2.5 | 20.0 |
| PCB-1016 Peak 4 | Ave | 38705393 | 35423162 | | 0.458 | 0.500 | -8.5 | 20.0 |
| PCB-1016 Peak 5 | Ave | 29481057 | 26038506 | | 0.442 | 0.500 | -11.7 | 20.0 |
| PCB-1260 Peak 1 | Ave | 75574387 | 71456608 | | 0.473 | 0.500 | -5.4 | 20.0 |
| PCB-1260 Peak 2 | Ave | 96101654 | 101176704 | | 0.526 | 0.500 | 5.3 | 20.0 |
| PCB-1260 Peak 3 | Ave | 60142749 | 53343430 | | 0.444 | 0.500 | -11.3 | 20.0 |
| PCB-1260 Peak 4 | Ave | 142609278 | 128840580 | | 0.452 | 0.500 | -9.7 | 20.0 |
| PCB-1260 Peak 5 | Ave | 90726488 | 83231728 | | 0.459 | 0.500 | -8.3 | 20.0 |
| Tetrachloro-m-xylene | Ave | 1305838581 | 1286410400 | | 0.0246 | 0.0250 | -1.5 | 20.0 |
| Decachlorobiphenyl | Ave | 1141670531 | 1089907720 | | 0.0239 | 0.0250 | -4.5 | 20.0 |

FORM IV
GC SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab Sample ID: MB 240-51346/23-A

Matrix: Solid Date Extracted: 07/19/2012 10:47

Lab File ID:(1) P1100016.D Lab File ID:(2)

Date Analyzed:(1) 07/23/2012 16:38 Date Analyzed:(2)

Instrument ID:(1) A2HP11 Instrument ID:(2)

GC Column:(1) CLP-2 ID: 0.53(mm) GC Column:(2) ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | DATE ANALYZED 1 | DATE ANALYZED 2 |
|---|---|---|---|
| MT-SS18-0-2 | 240-13070-2 | 07/23/2012 13:54 | |
| MT-SS18-8-10 | 240-13070-3 | 07/23/2012 14:07 | |
| MT-SB17-0-2 | 240-13070-5 | 07/23/2012 14:21 | |
| MT-SB17-8-10 | 240-13070-6 | 07/23/2012 14:35 | |
| | LCS 240-51346/24-A | 07/23/2012 19:21 | |

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13070-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-51346/23-A

Matrix: Solid | Lab File ID: P1100016.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3540C | Date Extracted: 07/19/2012 10:47

Sample wt/vol: 30.00(g) | Date Analyzed: 07/23/2012 16:38

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(mL) | GC Column: CLP-2 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51690 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 33 | U | 33 | 21 |
| 11104-28-2 | Aroclor-1221 | 33 | U | 33 | 16 |
| 11141-16-5 | Aroclor-1232 | 33 | U | 33 | 14 |
| 53469-21-9 | Aroclor-1242 | 33 | U | 33 | 13 |
| 12672-29-6 | Aroclor-1248 | 33 | U | 33 | 17 |
| 11097-69-1 | Aroclor-1254 | 33 | U | 33 | 17 |
| 11096-82-5 | Aroclor-1260 | 33 | U | 33 | 17 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 877-09-8 | Tetrachloro-m-xylene | 74 | | 29-151 |
| 2051-24-3 | Decachlorobiphenyl | 81 | | 14-163 |

FORM II
GC SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): CLP-2 ID: 0.53 (mm)

| Client Sample ID | Lab Sample ID | TCX1 # | DCB1 # |
|---|---|---|---|
| MT-SS18-0-2 | 240-13070-2 | 69 | 83 |
| MT-SS18-8-10 | 240-13070-3 | 85 | 97 |
| MT-SB17-0-2 | 240-13070-5 | 76 | 90 |
| MT-SB17-8-10 | 240-13070-6 | 75 | 108 |
| | MB 240-51346/23-A | 74 | 81 |
| | LCS 240-51346/24-A | 55 | 86 |

| | QC LIMITS |
|---|---|
| TCX = Tetrachloro-m-xylene | 29-151 |
| DCB = Decachlorobiphenyl | 14-163 |

# Column to be used to flag recovery values

FORM II 8082A

FORM III
GC SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: P1100028.D

Lab ID: LCS 240-51346/24-A Client ID:

| COMPOUND | SPIKE ADDED (ug/Kg) | LCS CONCENTRATION (ug/Kg) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| Aroclor-1016 | 333 | 228 | 68 | 62-120 | |
| Aroclor-1260 | 333 | 278 | 83 | 56-122 | |

# Column to be used to flag recovery and RPD values

FORM III 8082A

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Sample No.: CCV 240-51690/3  Date Analyzed: 07/23/2012 13:40

Instrument ID: A2HP11  GC Column: CLP-2  ID: 0.53(mm)

Lab File ID (Standard): P1100003.D  Heated Purge: (Y/N) N

Calibration ID: 9853

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

| | | | | TCX | DCB | |
|---|---|---|---|---|---|---|
| | | | | RT # | RT # | |
| CONTINUING CALIBRATION SURROGATE | | | | 2.32 | 8.06 | |
| UPPER LIMIT | | | | 2.42 | 8.16 | |
| LOWER LIMIT | | | | 2.22 | 7.96 | |
| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | LAB FILE ID | | | |
| CCV 240-51690/3 CCVRT | | 07/23/2012 13:40 | P1100003.D | 2.32 | 8.06 | |
| 240-13070-2 | MT-SS18-0-2 | 07/23/2012 13:54 | P1100004.D | 2.32 | 8.06 | |
| 240-13070-3 | MT-SS18-8-10 | 07/23/2012 14:07 | P1100005.D | 2.32 | 8.06 | |
| 240-13070-5 | MT-SB17-0-2 | 07/23/2012 14:21 | P1100006.D | 2.32 | 8.06 | |
| 240-13070-6 | MT-SB17-8-10 | 07/23/2012 14:35 | P1100007.D | 2.32 | 8.06 | |
| MB 240-51346/23-A | | 07/23/2012 16:38 | P1100016.D | 2.32 | 8.06 | |
| CCV 240-51690/17 | | 07/23/2012 16:51 | P1100017.D | 2.32 | 8.06 | |
| LCS 240-51346/24-A | | 07/23/2012 19:21 | P1100028.D | 2.31 | 8.06 | |
| CCV 240-51690/29 | | 07/23/2012 19:35 | P1100029.D | 2.31 | 8.06 | |

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

TCX RT Limit = ± 0.1 minutes of surrogate RT
DCB RT Limit = ± 0.1 minutes of surrogate RT

# Column used to flag values outside QC limits

FORM VIII 8082A

# HERBICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Instrument ID: A2HP1  Start Date: 07/23/2012 11:46

Analysis Batch Number: 51638  End Date: 07/23/2012 23:36

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| STD 240-51638/4 IC | | 07/23/2012 11:46 | 1 | P1000004.D | CLP-1 0.53(mm) |
| STD 240-51638/4 IC | | 07/23/2012 11:46 | 1 | P1000004.D | CLP-2 0.53(mm) |
| STD 240-51638/5 IC | | 07/23/2012 12:09 | 1 | P1000005.D | CLP-1 0.53(mm) |
| STD 240-51638/5 IC | | 07/23/2012 12:09 | 1 | P1000005.D | CLP-2 0.53(mm) |
| STD 240-51638/6 ICRT | | 07/23/2012 12:33 | 1 | P1000006.D | CLP-1 0.53(mm) |
| STD 240-51638/6 ICRT | | 07/23/2012 12:33 | 1 | P1000006.D | CLP-2 0.53(mm) |
| STD 240-51638/7 IC | | 07/23/2012 12:57 | 1 | P1000007.D | CLP-1 0.53(mm) |
| STD 240-51638/7 IC | | 07/23/2012 12:57 | 1 | P1000007.D | CLP-2 0.53(mm) |
| STD 240-51638/8 IC | | 07/23/2012 13:21 | 1 | P1000008.D | CLP-1 0.53(mm) |
| STD 240-51638/8 IC | | 07/23/2012 13:21 | 1 | P1000008.D | CLP-2 0.53(mm) |
| STD 240-51638/9 IC | | 07/23/2012 13:45 | 1 | P1000009.D | CLP-1 0.53(mm) |
| STD 240-51638/9 IC | | 07/23/2012 13:45 | 1 | P1000009.D | CLP-2 0.53(mm) |
| ICV 240-51638/10 | | 07/23/2012 14:08 | 1 | P1000010.D | CLP-1 0.53(mm) |
| ICV 240-51638/10 | | 07/23/2012 14:08 | 1 | P1000010.D | CLP-2 0.53(mm) |
| ZZZZZ | | 07/23/2012 15:42 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/23/2012 15:42 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/23/2012 16:05 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/23/2012 16:05 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/23/2012 16:29 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/23/2012 16:29 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/23/2012 16:53 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/23/2012 16:53 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/23/2012 17:17 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/23/2012 17:17 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/23/2012 17:40 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/23/2012 17:40 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/23/2012 18:04 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/23/2012 18:04 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/23/2012 18:28 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/23/2012 18:28 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/23/2012 18:51 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/23/2012 18:51 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/23/2012 19:15 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/23/2012 19:15 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/23/2012 19:39 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/23/2012 19:39 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/23/2012 20:02 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/23/2012 20:02 | 1 | | CLP-2 0.53(mm) |
| 240-13070-4 | MT-TCLP-8-10 | 07/23/2012 20:26 | 1 | P1000023.D | CLP-1 0.53(mm) |
| 240-13070-4 | MT-TCLP-8-10 | 07/23/2012 20:26 | 1 | P1000023.D | CLP-2 0.53(mm) |
| 240-13070-4 MS | MT-TCLP-8-10 MS | 07/23/2012 20:50 | 1 | P1000024.D | CLP-1 0.53(mm) |
| 240-13070-4 MS | MT-TCLP-8-10 MS | 07/23/2012 20:50 | 1 | P1000024.D | CLP-2 0.53(mm) |
| MB 240-50727/3-A | | 07/23/2012 21:13 | 1 | P1000025.D | CLP-1 0.53(mm) |
| MB 240-50727/3-A | | 07/23/2012 21:13 | 1 | P1000025.D | CLP-2 0.53(mm) |
| LCS 240-50727/4-A | | 07/23/2012 21:37 | 1 | P1000026.D | CLP-1 0.53(mm) |

8151A

# HERBICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Instrument ID: A2HP1  Start Date: 07/23/2012 11:46

Analysis Batch Number: 51638  End Date: 07/23/2012 23:36

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| LCS 240-50727/4-A | | 07/23/2012 21:37 | 1 | P1000026.D | CLP-2 0.53(mm) |
| ZZZZZ | | 07/23/2012 22:01 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/23/2012 22:01 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/23/2012 22:24 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/23/2012 22:24 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/23/2012 22:48 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/23/2012 22:48 | 1 | | CLP-2 0.53(mm) |
| ZZZZZ | | 07/23/2012 23:12 | 1 | | CLP-1 0.53(mm) |
| ZZZZZ | | 07/23/2012 23:12 | 1 | | CLP-2 0.53(mm) |
| CCV 240-51638/31 | | 07/23/2012 23:36 | 1 | P1000031.D | CLP-1 0.53(mm) |
| CCV 240-51638/31 | | 07/23/2012 23:36 | 1 | P1000031.D | CLP-2 0.53(mm) |

FORM VI
HERBICIDES INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13070-1 Analy Batch No.: 51638

SDG No.:

Instrument ID: A2HP1 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/23/2012 11:46 Calibration End Date: 07/23/2012 13:45 Calibration ID: 10269

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD 240-51638/4 | P1000004.D |
| Level 2 | STD 240-51638/5 | P1000005.D |
| Level 3 | STD 240-51638/6 | P1000006.D |
| Level 4 | STD 240-51638/7 | P1000007.D |
| Level 5 | STD 240-51638/8 | P1000008.D |
| Level 6 | STD 240-51638/9 | P1000009.D |

| ANALYTE | CF | | | | CURVE TYPE | COEFFICIENT | | | # | MIN CF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 5 | LVL 2<br>LVL 6 | LVL 3 | LVL 4 | | B | M1 | M2 | | | | | | | | |
| Dalapon | 429653100<br>307195394 | 382440100<br>282066119 | 360115000 | 323090625 | | 1858605.76 | 286441221 | | | | | | | 0.9970 | | 0.9900 |
| Dicamba | 490473800<br>464953238 | 517477850<br>438463256 | 503520325 | 474386900 | Ave | | 481545895 | | | | 5.9 | | 20.0 | | | |
| MCPP | 341021<br>362624 | 469013<br>327060 | 456409 | 405499 | Ave | | 393604.276 | | | | 15.0 | | 20.0 | | | |
| MCPA | 507949<br>440565 | 671990<br>396802 | 596104 | 497282 | Ave | | 518448.578 | | | | 19.0 | | 20.0 | | | |
| Dichlorprop | 80658550<br>82662081 | 96501525<br>78287245 | 91194650 | 85547338 | Ave | | 85808564.8 | | | | 8.0 | | 20.0 | | | |
| 2,4-D | 59481000<br>79230147 | 73311625<br>78862086 | 73354313 | 74249588 | | -382575.97 | 79358096.7 | | | | | | | 1.0000 | | 0.9900 |
| Silvex (2,4,5-TP) | 415755600<br>477128538 | 434340700<br>474170706 | 452011800 | 450315600 | | -379446.15 | 475521644 | | | | | | | 1.0000 | | 0.9900 |
| 2,4,5-T | 219734200<br>289726188 | 223969100<br>313061406 | 241349600 | 246662700 | Qua | -492679.57 | 262698962 | 337162969 | | | | | | 1.0000 | | 0.9900 |
| 2,4-DB | 16167200<br>23260075 | 18088925<br>24058195 | 18977363 | 19827038 | Qua | -224586.83 | 22265737.3 | 3425965.15 | | | | | | 0.9990 | | 0.9900 |
| Dinoseb | 263805333<br>251861313 | 253056500<br>244165031 | 253175000 | 235322750 | | 52404.3248 | 244499265 | | | | | | | 0.9990 | | 0.9900 |
| 2,4-Dichlorophenylacetic acid | 121325100<br>101947769 | 121826350<br>94937444 | 117905450 | 105695206 | Ave | | 110606220 | | | | 10.0 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HERBICIDES INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13070-1 Analy Batch No.: 51638

SDG No.:

Instrument ID: A2HP1 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/23/2012 11:46 Calibration End Date: 07/23/2012 13:45 Calibration ID: 10270

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD 240-51638/4 | P1000004.D |
| Level 2 | STD 240-51638/5 | P1000005.D |
| Level 3 | STD 240-51638/6 | P1000006.D |
| Level 4 | STD 240-51638/7 | P1000007.D |
| Level 5 | STD 240-51638/8 | P1000008.D |
| Level 6 | STD 240-51638/9 | P1000009.D |

| ANALYTE | CF | | | | CURVE TYPE | COEFFICIENT | | | # | MIN CF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 5 | LVL 2<br>LVL 6 | LVL 3 | LVL 4 | | B | M1 | M2 | | | | | | | | |
| Dalapon | 177650200<br>141638606 | 165269100<br>136575963 | 157454500 | 147449525 | | 524232.100 | 137138283 | | | | | | | 0.9990 | | 0.9900 |
| Dicamba | 275854700<br>275188306 | 285712850<br>264715988 | 286822150 | 271753588 | Ave | | 276674597 | | | | 3.0 | | 20.0 | | | |
| MCPP | 297204<br>215387 | 327722<br>193025 | 301173 | 244933 | Ave | | 263240.797 | | | | 20.0 | | 20.0 | | | |
| MCPA | 439059<br>280734 | 433318<br>256840 | 391041 | 319893 | Qua | 567850.300 | 289034.633 | -649.48307 | | | | | | 0.9990 | | 0.9900 |
| Dichlorprop | 46858550<br>50344381 | 50073250<br>48695717 | 50937113 | 48782675 | Ave | | 49281947.7 | | | | 3.0 | | 20.0 | | | |
| 2,4-D | 39911550<br>51374544 | 43257575<br>52688622 | 45819450 | 47010663 | | -345099.95 | 52338863.3 | | | | | | | 0.9990 | | 0.9900 |
| Silvex (2,4,5-TP) | 246489600<br>290123963 | 252196200<br>291447369 | 266995250 | 268952550 | | -330097.83 | 291030159 | | | | | | | 0.9990 | | 0.9900 |
| 2,4,5-T | 150308800<br>199908675 | 151787200<br>212351719 | 164474350 | 168974700 | | -495988.02 | 207183454 | | | | | | | 0.9940 | | 0.9900 |
| 2,4-DB | 14695350<br>16990988 | 14295000<br>17988239 | 15081638 | 15151575 | Ave | | 15700464.8 | | | | 9.3 | | 20.0 | | | |
| Dinoseb | 140917333<br>141977438 | 142157667<br>143561865 | 142284833 | 132580375 | Ave | | 140579918 | | | | 2.9 | | 20.0 | | | |
| 2,4-Dichlorophenylacetic acid | 71013450<br>63579959 | 71895725<br>61215541 | 69288200 | 64227050 | Ave | | 66869987.5 | | | | 6.6 | | 20.0 | | | |

Note: The ml coefficient is the same as Ave CF for an Ave curve type.

FORM VII
HERBICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab Sample ID: ICV 240-51638/10 Calibration Date: 07/23/2012 14:08

Instrument ID: A2HP1 Calib Start Date: 07/23/2012 11:46

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 07/23/2012 13:45

Lab File ID: P1000010.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dalapon | | | 328693409 | | 0.0393 | 0.0399 | -1.5 | 20.0 |
| Dicamba | Ave | 481545895 | 481045075 | | 0.0400 | 0.0400 | -0.1 | 20.0 |
| MCPP | Ave | 393604 | 450271 | | 9.15 | 8.00 | 14.4 | 20.0 |
| MCPA | Ave | 518449 | 584993 | | 9.03 | 8.00 | 12.8 | 20.0 |
| Dichlorprop | Ave | 85808565 | 96648700 | | 0.0901 | 0.0800 | 12.6 | 20.0 |
| 2,4-D | | | 73615500 | | 0.0790 | 0.0800 | -1.3 | 20.0 |
| Silvex (2,4,5-TP) | | | 438621750 | | 0.0192 | 0.0200 | -4.0 | 20.0 |
| 2,4,5-T | Qua | | 243310450 | | 0.0199 | 0.0200 | -0.5 | 20.0 |
| 2,4-DB | Qua | | 18241688 | | 0.0748 | 0.0800 | -6.5 | 20.0 |
| Dinoseb | | | 294337167 | | 0.0142 | 0.0120 | 18.3 | 20.0 |
| 2,4-Dichlorophenylacetic acid | Ave | 110606220 | 111169800 | | 0.0804 | 0.0800 | 0.5 | 20.0 |

FORM VII
HERBICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: ICV 240-51638/10  Calibration Date: 07/23/2012 14:08

Instrument ID: A2HP1  Calib Start Date: 07/23/2012 11:46

GC Column: CLP-2  ID: 0.53(mm)  Calib End Date: 07/23/2012 13:45

Lab File ID: P1000010.D  Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dalapon | | | 140921253 | | 0.0372 | 0.0399 | -6.8 | 20.0 |
| Dicamba | Ave | 276674597 | 270758475 | | 0.0391 | 0.0400 | -2.1 | 20.0 |
| MCPP | Ave | 263241 | 285163 | | 8.67 | 8.00 | 8.3 | 20.0 |
| MCPA | Qua | | 368461 | | 8.39 | 8.00 | 4.9 | 20.0 |
| Dichlorprop | Ave | 49281948 | 53252250 | | 0.0864 | 0.0800 | 8.1 | 20.0 |
| 2,4-D | | | 45935325 | | 0.0768 | 0.0800 | -4.0 | 20.0 |
| Silvex (2,4,5-TP) | | | 257134000 | | 0.0188 | 0.0200 | -6.0 | 20.0 |
| 2,4,5-T | | | 165680300 | | 0.0184 | 0.0200 | -8.0 | 20.0 |
| 2,4-DB | Ave | 15700465 | 14123488 | | 0.0720 | 0.0800 | -10.0 | 20.0 |
| Dinoseb | Ave | 140579918 | 133328667 | | 0.0114 | 0.0120 | -5.2 | 20.0 |
| 2,4-Dichlorophenylacetic acid | Ave | 66869988 | 64439550 | | 0.0771 | 0.0800 | -3.6 | 20.0 |

FORM VII
HERBICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCV 240-51638/31  Calibration Date: 07/23/2012 23:36

Instrument ID: A2HP1  Calib Start Date: 07/23/2012 11:46

GC Column: CLP-1  ID: 0.53(mm)  Calib End Date: 07/23/2012 13:45

Lab File ID: P1000031.D  Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dalapon | | | 358179850 | | 0.0435 | 0.0400 | 8.8 | 15.0 |
| Dicamba | Ave | 481545895 | 494240250 | | 0.0411 | 0.0400 | 2.6 | 15.0 |
| MCPP | Ave | 393604 | 452354 | | 9.19 | 8.00 | 14.9 | 15.0 |
| MCPA | Ave | 518449 | 559601 | | 8.64 | 8.00 | 7.9 | 15.0 |
| Dichlorprop | Ave | 85808565 | 87957113 | | 0.0820 | 0.0800 | 2.5 | 15.0 |
| 2,4-D | | | 68111138 | | 0.0735 | 0.0800 | -8.1 | 15.0 |
| Silvex (2,4,5-TP) | | | 423774250 | | 0.0186 | 0.0200 | -7.0 | 15.0 |
| 2,4,5-T | Qua | | 208601750 | | 0.0174 | 0.0200 | -13.0 | 15.0 |
| 2,4-DB | Qua | | 15442613 | | 0.0649 | 0.0800 | -18.9* | 15.0 |
| Dinoseb | | | 218696500 | | 0.0105 | 0.0120 | -12.5 | 15.0 |
| 2,4-Dichlorophenylacetic acid | Ave | 110606220 | 117845888 | | 0.0852 | 0.0800 | 6.5 | 15.0 |

FORM VII
HERBICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCV 240-51638/31  Calibration Date: 07/23/2012 23:36

Instrument ID: A2HP1  Calib Start Date: 07/23/2012 11:46

GC Column: CLP-2  ID: 0.53(mm)  Calib End Date: 07/23/2012 13:45

Lab File ID: P1000031.D  Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dalapon | | | 152857175 | | 0.0408 | 0.0400 | 2.0 | 15.0 |
| Dicamba | Ave | 276674597 | 277714125 | | 0.0402 | 0.0400 | 0.4 | 15.0 |
| MCPP | Ave | 263241 | 286858 | | 8.72 | 8.00 | 9.0 | 15.0 |
| MCPA | Qua | | 376697 | | 8.63 | 8.00 | 7.9 | 15.0 |
| Dichlorprop | Ave | 49281948 | 46561325 | | 0.0756 | 0.0800 | -5.5 | 15.0 |
| 2,4-D | | | 39979038 | | 0.0677 | 0.0800 | -15.4* | 15.0 |
| Silvex (2,4,5-TP) | | | 237811200 | | 0.0175 | 0.0200 | -12.5 | 15.0 |
| 2,4,5-T | | | 138313900 | | 0.0157 | 0.0200 | -21.5* | 15.0 |
| 2,4-DB | Ave | 15700465 | 11825225 | | 0.0603 | 0.0800 | -24.7* | 15.0 |
| Dinoseb | Ave | 140579918 | 115522167 | | 0.00986 | 0.0120 | -17.8* | 15.0 |
| 2,4-Dichlorophenylacetic acid | Ave | 66869988 | 67766275 | | 0.0811 | 0.0800 | 1.3 | 15.0 |

FORM IV
HERBICIDES METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab Sample ID: MB 240-50727/3-A

Matrix: Water Date Extracted: 07/13/2012 10:04

Lab File ID:(1) P1000025.D Lab File ID:(2) P1000025.D

Date Analyzed:(1) 07/23/2012 21:13 Date Analyzed:(2) 07/23/2012 21:13

Instrument ID:(1) A2HP1 Instrument ID:(2) A2HP1

GC Column:(1) CLP-1 ID: 0.53(mm) GC Column:(2) CLP-2 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | DATE ANALYZED 1 | DATE ANALYZED 2 |
|---|---|---|---|
| MT-TCLP-8-10 | 240-13070-4 | 07/23/2012 20:26 | 07/23/2012 20:26 |
| MT-TCLP-8-10 MS | 240-13070-4 MS | 07/23/2012 20:50 | 07/23/2012 20:50 |
| | LCS 240-50727/4-A | 07/23/2012 21:37 | 07/23/2012 21:37 |

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13070-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-50727/3-A

Matrix: Solid | Lab File ID: P1000025.D

Analysis Method: 8151A | Date Collected:

Extraction Method: 8151A | Date Extracted: 07/13/2012 10:04

Sample wt/vol: 100(mL) | Date Analyzed: 07/23/2012 21:13

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51638 | Units: mg/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 94-75-7 | 2,4-D | 0.0020 | U | 0.0020 | 0.00021 |
| 93-72-1 | Silvex (2,4,5-TP) | 0.00050 | U | 0.00050 | 0.00010 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 19719-28-9 | 2,4-Dichlorophenylacetic acid | 56 | | 37-116 |

FORM II
HERBICIDES SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Solid (TCLP) Level: Low

GC Column (1): CLP-1 ID: 0.53 (mm) GC Column (2): CLP-2 ID: 0.53 (mm)

| Client Sample ID | Lab Sample ID | DCPA1 # | DCPA2 # |
|---|---|---|---|
| MT-TCLP-8-10 | 240-13070-4 | 48 | 67 |
| | MB 240-50727/3-A | 56 | 74 |
| | LCS 240-50727/4-A | 61 | 80 |
| MT-TCLP-8-10 MS | 240-13070-4 MS | 55 | 75 |

| | QC LIMITS |
|---|---|
| DCPA = 2,4-Dichlorophenylacetic acid | 37-116 |

# Column to be used to flag recovery values

FORM II 8151A

FORM III
HERBICIDES LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P1000026.D

Lab ID: LCS 240-50727/4-A Client ID:

| COMPOUND | SPIKE ADDED (mg/L) | LCS CONCENTRATION (mg/L) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| 2,4-D | 0.0200 | 0.0159 | 79 | 35-136 | |
| Silvex (2,4,5-TP) | 0.00500 | 0.00390 | 78 | 46-112 | |

# Column to be used to flag recovery and RPD values

FORM III 8151A

FORM III
HERBICIDES MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Matrix: Solid (TCLP) Level: Low Lab File ID: P1000024.D

Lab ID: 240-13070-4 MS Client ID: MT-TCLP-8-10 MS

| COMPOUND | SPIKE ADDED (mg/L) | SAMPLE CONCENTRATION (mg/L) | MS CONCENTRATION (mg/L) | MS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|---|
| 2,4-D | 0.0200 | 0.0020 U | 0.0153 | 76 | 54-114 | |
| Silvex (2,4,5-TP) | 0.00500 | 0.00050 U | 0.00373 | 75 | 52-124 | |

# Column to be used to flag recovery and RPD values

FORM III 8151A

FORM VIII
HERBICIDES ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Sample No.: STD 240-51638/6 Date Analyzed: 07/23/2012 12:33

Instrument ID: A2HP1 GC Column: CLP-1 ID: 0.53(mm)

Lab File ID (Standard): P1000006.D Heated Purge: (Y/N) N

Calibration ID: 10269

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

| | | | | DCPA RT # | | |
|---|---|---|---|---|---|---|
| INITIAL CALIBRATION SURROGATE | | | | 6.96 | | |
| UPPER LIMIT | | | | 6.98 | | |
| LOWER LIMIT | | | | 6.94 | | |
| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | LAB FILE ID | | | |
| STD 240-51638/6 ICRT | | 07/23/2012 12:33 | P1000006.D | 6.96 | | |
| 240-13070-4 | MT-TCLP-8-10 | 07/23/2012 20:26 | P1000023.D | 6.97 | | |
| 240-13070-4 MS | MT-TCLP-8-10 MS | 07/23/2012 20:50 | P1000024.D | 6.97 | | |
| MB 240-50727/3-A | | 07/23/2012 21:13 | P1000025.D | 6.97 | | |
| LCS 240-50727/4-A | | 07/23/2012 21:37 | P1000026.D | 6.97 | | |
| CCV 240-51638/31 | | 07/23/2012 23:36 | P1000031.D | 6.96 | | |

DCPA = 2,4-Dichlorophenylacetic acid

DCPA RT Limit = ± 0.02 minutes of surrogate RT

# Column used to flag values outside QC limits

FORM VIII 8151A

FORM VIII
HERBICIDES ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Sample No.: STD 240-51638/6  Date Analyzed: 07/23/2012 12:33

Instrument ID: A2HP1  GC Column: CLP-2  ID: 0.53(mm)

Lab File ID (Standard): P1000006.D  Heated Purge: (Y/N) N

Calibration ID: 10270

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

| | | | | DCPA RT # | | |
|---|---|---|---|---|---|---|
| INITIAL CALIBRATION SURROGATE | | | | 7.53 | | |
| UPPER LIMIT | | | | 7.55 | | |
| LOWER LIMIT | | | | 7.51 | | |
| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | LAB FILE ID | | | |
| STD 240-51638/6 ICRT | | 07/23/2012 12:33 | P1000006.D | 7.53 | | |
| 240-13070-4 | MT-TCLP-8-10 | 07/23/2012 20:26 | P1000023.D | 7.54 | | |
| 240-13070-4 MS | MT-TCLP-8-10 MS | 07/23/2012 20:50 | P1000024.D | 7.54 | | |
| MB 240-50727/3-A | | 07/23/2012 21:13 | P1000025.D | 7.54 | | |
| LCS 240-50727/4-A | | 07/23/2012 21:37 | P1000026.D | 7.54 | | |
| CCV 240-51638/31 | | 07/23/2012 23:36 | P1000031.D | 7.53 | | |

DCPA = 2,4-Dichlorophenylacetic acid

DCPA RT Limit = ± 0.02 minutes of surrogate RT

# Column used to flag values outside QC limits

FORM VIII 8151A

**TETRA TECH NUS, INC.** **CALCULATION WORKSHEET** PAGE 1 OF 1

| CLIENT | JOB NUMBER |
|---|---|
| Lockheed-MSA | SDG 240-13070-1 |
| SUBJECT: Sample Calculations | |
| BASED ON | DRAWING NUMBER |
| BY: Cam Cognetta / CHECKED BY | APPROVED BY / DATE: Aug 20, 2012 |

I. VOC, Sample MT-SS18-8-10; chloroform

$$\frac{491622}{1596172} * \frac{50\ ug/L}{0.4764} * \frac{1}{0.859} * \frac{5}{5.823g} = 32.3\ ug/kg$$

II. SVOC, Sample MT-SB17-0-2; Cpyrene

$$\frac{409748}{416782} * \frac{4\ mg/uL}{1.4809} * \frac{1}{0.859} * \frac{2}{29.65} * 1000 = 208.5\ ug/kg$$

III GRO, Sample MT-SS18-0-2

$$\frac{53453394}{338902.687} * 2 * \frac{1}{0.839} = 376.0\ ug/kg$$

IV DRO, Sample MT-SB17-0-2

$$\frac{185485652}{155791.354} * \frac{5}{29.95} * \frac{1}{0.859} = 231.4\ mg/kg$$

Sample Calculation

FORM I

GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-SS18-8-10  Lab Sample ID: 240-13070-3

Matrix: Solid  Lab File ID: 146770.D

Analysis Method: 8260B  Date Collected: 07/10/2012 09:20

Sample wt/vol: 5.823(g)  Date Analyzed: 07/17/2012 19:06

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture: 14.1  Level: (low/med) Low

Analysis Batch No.: 51061  Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 56-23-5 | Carbon tetrachloride | 78 | | 5.0 | 0.37 |
| 108-90-7 | Chlorobenzene | 5.0 | U | 5.0 | 0.33 |
| 75-00-3 | Chloroethane | 5.0 | U | 5.0 | 0.86 |
| 67-66-3 | Chloroform | 32 | | 5.0 | 0.29 |
| 74-87-3 | Chloromethane | 5.0 | U | 5.0 | 0.41 |
| 156-59-2 | cis-1,2-Dichloroethene | 5.0 | U | 5.0 | 0.36 |
| 10061-01-5 | cis-1,3-Dichloropropene | 5.0 | U | 5.0 | 0.34 |
| 124-48-1 | Dibromochloromethane | 5.0 | U | 5.0 | 0.55 |
| 74-95-3 | Dibromomethane | 5.0 | U | 5.0 | 0.63 |
| 75-71-8 | Dichlorodifluoromethane | 5.0 | U | 5.0 | 0.50 |
| 108-20-3 | Diisopropyl ether | 10 | U | 10 | 1.5 |
| 100-41-4 | Ethylbenzene | 5.0 | U | 5.0 | 0.26 |
| 637-92-3 | Ethyl-t-butyl ether (ETBE) | 5.0 | U | 5.0 | 0.22 |
| 87-68-3 | Hexachlorobutadiene | 5.0 | U | 5.0 | 1.2 |
| 98-82-8 | Isopropylbenzene | 0.95 | J | 5.0 | 0.16 |
| 1634-04-4 | Methyl tert-butyl ether | 20 | U | 20 | 0.43 |
| 75-09-2 | Methylene Chloride | 0.71 | J | 5.0 | 0.67 |
| 179601-23-1 | m-Xylene & p-Xylene | 10 | U | 10 | 1.2 |
| 91-20-3 | Naphthalene | 1.1 | J | 5.0 | 0.19 |
| 104-51-8 | n-Butylbenzene | 0.46 | J | 5.0 | 0.23 |
| 103-65-1 | n-Propylbenzene | 5.0 | U | 5.0 | 0.40 |
| 95-47-6 | o-Xylene | 2.5 | J | 5.0 | 0.35 |
| 99-87-6 | p-Isopropyltoluene | 5.0 | U | 5.0 | 0.21 |
| 135-98-8 | sec-Butylbenzene | 0.54 | J | 5.0 | 0.18 |
| 100-42-5 | Styrene | 5.0 | U | 5.0 | 0.15 |
| 994-05-8 | Tert-amyl-methyl ether (TAME) | 5.0 | U | 5.0 | 0.37 |
| 75-65-0 | tert-Butyl alcohol | 200 | U | 200 | 7.6 |
| 98-06-6 | tert-Butylbenzene | 0.45 | J | 5.0 | 0.29 |
| 127-18-4 | Tetrachloroethene | 5.0 | U | 5.0 | 0.52 |
| 108-88-3 | Toluene | 0.48 | J | 5.0 | 0.27 |
| 156-60-5 | trans-1,2-Dichloroethene | 5.0 | U | 5.0 | 0.41 |
| 10061-02-6 | trans-1,3-Dichloropropene | 5.0 | U | 5.0 | 0.54 |
| 79-01-6 | Trichloroethene | 5.0 | U | 5.0 | 0.42 |
| 75-69-4 | Trichlorofluoromethane | 5.0 | U | 5.0 | 0.34 |
| 108-05-4 | Vinyl acetate | 10 | U | 10 | 0.25 |
| 75-01-4 | Vinyl chloride | 5.0 | U | 5.0 | 0.39 |

Report Date: 18-Jul-2012 23:28:13 Chrom Revision: 2.0 08-Feb-2012 11:07:54

Sample Calculation

TestAmerica Laboratories
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\NCChrom\ChromData\A3UX14\20120717-11608.b\146770.D | | |
| Lims ID: | 240-13070-C-3-A | Client ID: | MT-SS18-8-10 |
| Inject. Date: | 17-Jul-2012 19:06:30 | Dil. Factor: | 1.0000 |
| Sample Type: | Client | | |
| Sample ID: | 240-13070-c-3-a | | |
| Misc. Info.: | 240-0011608-022 =240-0011608-022 | | |
| Operator: | 002808 | Instrument ID: | A3UX14 |
| Vol. Injected: | 1.0000 | ALS Bottle#: | 20 |
| Lims Batch ID: | 51061 | Lims Sample ID: | 22 |
| Detector: | MS SCAN | | |
| Method: | \\NCChrom\ChromData\A3UX14\20120717-11608.b\8260_14.m | | |
| Last Update: | 18-Jul-2012 23:27:55 | Calib Date: | 28-Jun-2012 20:31:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\NCChrom\ChromData\A3UX14\20120628-11194.b\146460.D | | |
| Limit Group: | MSV 8260B ICAL | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Process Host: | CORP-CTX-18 | | |
| First Level Reviewer: latat | | Date: | 18-Jul-2012 20:54:38 |

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 6.884 | 6.885 | -0.001 | 98 | 1596172 | 50.0 | |
| * 2 Chlorobenzene-d5 | 117 | 9.594 | 9.594 | 0.0 | 92 | 931785 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 11.570 | 11.571 | -0.001 | 98 | 436528 | 50.0 | |
| $ 5 Dibromofluoromethane (Surr) | 113 | 6.210 | 6.210 | 0.0 | 57 | 376637 | 44.5 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 6.553 | 6.542 | 0.011 | 92 | 496538 | 49.2 | |
| $ 7 Toluene-d8 (Surr) | 98 | 8.352 | 8.352 | 0.0 | 96 | 1385004 | 51.8 | |
| $ 131 4-Bromofluorobenzene (Surr) | 95 | 10.588 | 10.588 | 0.0 | 84 | 426054 | 50.8 | |
| 12 Dichlorodifluoromethane | 85 | | 1.442 | | | | | |
| 13 Chloromethane | 50 | | 1.607 | | | | | |
| 14 Vinyl chloride | 62 | | 1.737 | | | | | |
| 15 Bromomethane | 94 | | 2.069 | | | | | |
| 16 Chloroethane | 64 | | 2.187 | | | | | |
| 18 Trichlorofluoromethane | 101 | | 2.507 | | | | | |
| 21 1,1-Dichloroethene | 96 | | 3.157 | | | | | |
| 23 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | | 3.193 | | | | | |
| 22 Acetone | 43 | 3.275 | 3.264 | 0.011 | 89 | 29347 | 0.9759 | |
| 26 Carbon disulfide | 76 | 3.429 | 3.441 | -0.012 | 96 | 21673 | 4.22 | |
| 30 Methylene Chloride | 84 | 3.891 | 3.903 | -0.012 | 81 | 61874 | 0.7117 | |
| 31 2-Methyl-2-propanol | 59 | | 4.199 | | | | | |
| 33 trans-1,2-Dichloroethene | 96 | | 4.317 | | | | | |
| 34 Methyl tert-butyl ether | 73 | | 4.353 | | | | | |
| 36 1,1-Dichloroethane | 63 | | 4.921 | | | | | |
| 37 Vinyl acetate | 86 | | 5.039 | | | | | |
| 38 Isopropyl ether | 87 | | 5.074 | | | | | |
| 40 Tert-butyl ethyl ether | 59 | | 5.524 | | | | | |
| 43 2,2-Dichloropropane | 77 | | 5.642 | | | | | |
| 42 cis-1,2-Dichloroethene | 96 | | 5.654 | | | | | |
| 41 2-Butanone (MEK) | 43 | | 5.702 | | | | | |
| 47 Chlorobromomethane | 128 | | 5.926 | | | | | |
| 49 Chloroform | 83 | 6.032 | 6.033 | -0.001 | 84 | 491622 | 32.3 | |
| 50 1,1,1-Trichloroethane | 97 | | 6.210 | | | | | |

Sample Calculation

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-13070-1  Analy Batch No.: 49285

SDG No.:

Instrument ID: A3UX14  GC Column: DB-624  ID: 0.18(mm)  Heated Purge: (Y/N) Y

Calibration Start Date: 06/28/2012 14:23  Calibration End Date: 06/28/2012 17:16  Calibration ID: 9778

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Methyl acetate | 0.4236<br>0.2803 | 0.3291<br>0.2614 | 0.2939<br>0.2674 | 0.2641<br>0.2529 | 0.2579 | Lin1 | 0.1579 | 0.2582 | | | | | | | 0.9990 | | 0.9900 |
| Methylene Chloride | 3.5454<br>0.3588 | 2.1209<br>0.3082 | 1.2661<br>0.2969 | 0.6018<br>0.2677 | 0.4304 | Lin1 | 1.7480 | 0.2673 | | | | | | | 0.9960 | | 0.9900 |
| tert-Butyl alcohol | 0.0305<br>0.0240 | 0.0248<br>0.0218 | 0.0225<br>0.0231 | 0.0199<br>0.0205 | 0.0208 | Ave | | 0.0231 | | | | 14.0 | | 15.0 | | | |
| Acrylonitrile | 0.1236<br>0.1220 | 0.1069<br>0.1187 | 0.1155<br>0.1223 | 0.1147<br>0.1111 | 0.1101 | Ave | | 0.1161 | | | | 5.1 | | 15.0 | | | |
| trans-1,2-Dichloroethene | 0.2915<br>0.2903 | 0.2443<br>0.3091 | 0.2545<br>0.3136 | 0.2779<br>0.2921 | 0.2604 | Ave | | 0.2815 | | | | 8.6 | | 15.0 | | | |
| Methyl tert-butyl ether | 0.6525<br>0.6893 | 0.6208<br>0.7148 | 0.6251<br>0.7374 | 0.6173<br>0.6840 | 0.6201 | Ave | | 0.6624 | | | | 6.9 | | 15.0 | | | |
| Hexane | 0.1453<br>0.0796 | 0.1016<br>0.0842 | 0.0695<br>0.0797 | 0.0876<br>0.0806 | 0.0813 | Lin1 | 0.0220 | 0.0804 | | | | | | | 0.9990 | | 0.9900 |
| 1,1-Dichloroethane | 0.6121<br>0.6136 | 0.5775<br>0.6636 | 0.5871<br>0.6772 | 0.6057<br>0.6395 | 0.5946 | Ave | | 0.6190 | | | 0.1000 | 5.5 | | 15.0 | | | |
| Vinyl acetate | 0.0339<br>0.0290 | 0.0339<br>0.0300 | 0.0247<br>0.0319 | 0.0245<br>0.0327 | 0.0274 | Ave | | 0.0298 | | | | 12.0 | | 15.0 | | | |
| 2,2-Dichloropropane | 0.1696<br>0.2375 | 0.1803<br>0.2767 | 0.1773<br>0.2943 | 0.2234<br>0.2680 | 0.2248 | Lin1 | -0.107 | 0.2743 | | | | | | | 0.9960 | | 0.9900 |
| cis-1,2-Dichloroethene | 0.2813<br>0.2976 | 0.2970<br>0.3197 | 0.2716<br>0.3203 | 0.2976<br>0.3022 | 0.2697 | Ave | | 0.2952 | | | | 6.2 | | 15.0 | | | |
| 2-Butanone | 0.4645<br>0.1493 | 0.2620<br>0.1305 | 0.1888<br>0.1329 | 0.1467<br>0.1322 | 0.1417 | Lin1 | 0.2926 | 0.1312 | | | | | | | 0.9990 | | 0.9900 |
| Bromochloromethane | 0.1456<br>0.1387 | 0.1358<br>0.1429 | 0.1308<br>0.1463 | 0.1316<br>0.1382 | 0.1282 | Ave | | 0.1376 | | | | 4.8 | | 15.0 | | | |
| Tetrahydrofuran | 0.2835<br>0.1046 | 0.2150<br>0.0954 | 0.1414<br>0.0986 | 0.1142<br>0.0908 | 0.1042 | Lin1 | 0.1054 | 0.0931 | | | | | | | 0.9980 | | 0.9900 |
| Chloroform | 0.4360<br>0.4900 | 0.4307<br>0.5178 | 0.4452<br>0.5255 | 0.4790<br>0.5029 | 0.4605 | Ave | | 0.4764 | | | | 7.4 | | 15.0 | | | |
| 1,1,1-Trichloroethane | 0.2879<br>0.3973 | 0.3217<br>0.4443 | 0.3017<br>0.4615 | 0.3592<br>0.4360 | 0.3651 | Lin1 | -0.153 | 0.4412 | | | | | | | 0.9980 | | 0.9900 |
| Cyclohexane | 0.5798<br>0.8296 | 0.6788<br>0.8976 | 0.5798<br>0.9194 | 0.8210<br>0.8736 | 0.7750 | Lin1 | -0.264 | 0.8867 | | | | | | | 0.9990 | | 0.9900 |
| 1,1-Dichloropropene | 0.3611<br>0.4036 | 0.3612<br>0.4292 | 0.3275<br>0.4357 | 0.3963<br>0.4235 | 0.3837 | Ave | | 0.3913 | | | | 9.3 | | 15.0 | | | |
| Carbon tetrachloride | 0.2639<br>0.3709 | 0.2939<br>0.4262 | 0.2599<br>0.4455 | 0.3216<br>0.4276 | 0.3332 | Lin1 | -0.183 | 0.4282 | | | | | | | 0.9970 | | 0.9900 |
| Benzene | 1.0444<br>1.0599 | 1.0304<br>1.1063 | 0.9760<br>1.1156 | 1.0604<br>1.0914 | 1.0174 | Ave | | 1.0558 | | | | 4.2 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

Sample Calculation

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-SB17-0-2 | Lab Sample ID: 240-13070-5

Matrix: Solid | Lab File ID: 20723021.D

Analysis Method: 8270D | Date Collected: 07/10/2012 10:25

Extract. Method: 3540C | Date Extracted: 07/19/2012 12:29

Sample wt/vol: 29.65(g) | Date Analyzed: 07/23/2012 14:41

Con. Extract Vol.: 2.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 16.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 51606 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 111-91-1 | Bis(2-chloroethoxy)methane | 120 | U | 120 | 27 |
| 111-44-4 | Bis(2-chloroethyl)ether | 120 | U | 120 | 2.4 |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 38 | J | 61 | 23 |
| 85-68-7 | Butyl benzyl phthalate | 61 | U | 61 | 12 |
| 105-60-2 | Caprolactam | 400 | U | 400 | 45 |
| 86-74-8 | Carbazole | 61 | U | 61 | 33 |
| 218-01-9 | Chrysene | 160 | | 8.1 | 1.3 |
| 84-74-2 | Di-n-butyl phthalate | 35 | J | 61 | 18 |
| 117-84-0 | Di-n-octyl phthalate | 61 | U | 61 | 33 |
| 53-70-3 | Dibenzo(a,h)anthracene | 28 | | 8.1 | 4.0 |
| 132-64-9 | Dibenzofuran | 61 | U | 61 | 4.0 |
| 84-66-2 | Diethyl phthalate | 61 | U | 61 | 19 |
| 131-11-3 | Dimethyl phthalate | 61 | U | 61 | 21 |
| 206-44-0 | Fluoranthene | 190 | | 8.1 | 4.0 |
| 86-73-7 | Fluorene | 8.1 | U | 8.1 | 4.0 |
| 118-74-1 | Hexachlorobenzene | 8.1 | U | 8.1 | 2.5 |
| 87-68-3 | Hexachlorobutadiene | 61 | U | 61 | 33 |
| 77-47-4 | Hexachlorocyclopentadiene | 400 | U | 400 | 33 |
| 67-72-1 | Hexachloroethane | 61 | U | 61 | 11 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 98 | | 8.1 | 4.0 |
| 78-59-1 | Isophorone | 61 | U | 61 | 16 |
| 621-64-7 | N-Nitrosodi-n-propylamine | 61 | U | 61 | 33 |
| 62-75-9 | N-Nitrosodimethylamine | 120 | U | 120 | 19 |
| 86-30-6 | N-Nitrosodiphenylamine | 61 | U | 61 | 25 |
| 91-20-3 | Naphthalene | 30 | | 8.1 | 4.0 |
| 98-95-3 | Nitrobenzene | 120 | U | 120 | 2.7 |
| 87-86-5 | Pentachlorophenol | 180 | U | 180 | 97 |
| 85-01-8 | Phenanthrene | 65 | | 8.1 | 4.0 |
| 108-95-2 | Phenol | 37 | J | 61 | 33 |
| 129-00-0 | Pyrene | 210 | | 8.1 | 4.0 |
| 108-60-1 | 2,2'-oxybis[1-chloropropane] | 120 | U | 120 | 11 |
| 606-20-2 | 2,6-Dinitrotoluene | 240 | U | 240 | 25 |
| 100-02-7 | 4-Nitrophenol | 400 | U | 400 | 97 |

Report Date: 24-Jul-2012 15:38:26 Chrom Revision: 2.0 08-Feb-2012 11:07:54

Sample Calculation

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20120723-11733.b\20723021.D
Lims ID: 240-13070-G-5-D Client ID: MT-SB17-0-2
Inject. Date: 23-Jul-2012 14:41:30 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 240-0011733-021
Misc. Info.: 240-13070-G-5-D =240-13070-G-5-D
Operator: 001574 Instrument ID: A4HP9
Vol. Injected: 1.0000 ALS Bottle#: 21
Lims Batch ID: 51606 Lims Sample ID: 21
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A4HP9\20120723-11733.b\8270 _9.m
Last Update: 24-Jul-2012 15:38:03 Calib Date: 18-Jul-2012 15:20:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20120718-11621.b\20718019.D
Limit Group: MSS 8270D ICAL
Integrator: RTE ID Type: Deconvolution ID
Process Host: XAWRK002

First Level Reviewer: ulmanm Date: 24-Jul-2012 13:39:27

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ng/ul | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Dichlorobenzene-d4 | 152 | 3.682 | 3.686 | -0.004 | 83 | 97976 | 4.00 | |
| * 2 Naphthalene-d8 | 136 | 4.644 | 4.647 | -0.003 | 97 | 421859 | 4.00 | |
| * 3 Acenaphthene-d10 | 164 | 5.942 | 5.940 | 0.002 | 67 | 270081 | 4.00 | |
| * 4 Phenanthrene-d10 | 188 | 7.021 | 7.025 | -0.004 | 77 | 463616 | 4.00 | |
| * 5 Chrysene-d12 | 240 | 8.966 | 8.969 | -0.003 | 80 | 416782 | 4.00 | |
| * 6 Perylene-d12 | 264 | 10.248 | 10.251 | -0.003 | 77 | 294812 | 4.00 | |
| $ 7 2-Fluorophenol | 112 | 2.699 | 2.679 | 0.020 | 92 | 444459 | 10.3 | |
| $ 8 Phenol-d5 | 99 | 3.389 | 3.378 | 0.011 | 0 | 756630 | 11.2 | |
| $ 9 Nitrobenzene-d5 | 82 | 4.099 | 4.105 | -0.006 | 84 | 517816 | 5.82 | |
| $ 10 2-Fluorobiphenyl (Surr) | 172 | 5.429 | 5.435 | -0.006 | 94 | 599122 | 5.75 | |
| $ 11 2,4,6-Tribromophenol | 330 | 6.514 | 6.520 | -0.006 | 70 | 96254 | 12.2 | |
| $ 12 Terphenyl-d14 | 244 | 8.159 | 8.160 | -0.001 | 79 | 771713 | 8.47 | |
| 16 2,3-Dichlorophenol | 1 | | 0.000 | | | | | |
| 23 2,5-Dichlorophenol | 1 | | 0.000 | | | | | |
| 17 4-Chlorophenol | 1 | | 0.000 | | | | | |
| 22 Bis(2-hydroxyphenyl)methane | 1 | | 0.000 | | | | | |
| 13 Octachlorocyclopentene | 1 | | 0.000 | | | | | |
| 20 Dimethylformamide | 1 | | 0.000 | | | | | |
| 19 Octachlorostyrene | 1 | | 0.000 | | | | | |
| 18 Bis(4-hydroxyphenyl)methane | 1 | | 0.000 | | | | | |
| 25 1,4-Dioxane | 88 | | 1.573 | | | | | |
| 26 N-Nitrosodimethylamine | 74 | | 1.765 | | | | | |
| 27 Pyridine | 79 | | 1.792 | | | | | |
| 28 Ethyl methacrylate | 69 | | 2.032 | | | | | |
| 29 3-Chloropropionitrile | 54 | | 2.235 | | | | | |
| 31 2-Picoline | 93 | | 2.275 | | | | | |
| 32 N-Nitrosomethylethylamine | 88 | | 2.339 | | | | | |
| 33 Malononitrile | 66 | | 2.422 | | | | | |
| 34 Methyl methanesulfonate | 80 | | 2.559 | | | | | |
| 30 3-Picoline | 93 | | 2.617 | | | | | |
| 233 n,n'-Dimethylacetamide | 44 | | 2.628 | | | | | |

Sample Calculation



| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ng/ul | Flags |
|---|---|---|---|---|---|---|---|---|
| 228 Diallate Peak 1 | 86 | | 6.608 | | | | | |
| 137 Phenacetin | 108 | | 6.613 | | | | | |
| 138 Phorate | 121 | | 6.613 | | | | | |
| 230 Diallate Peak 2 | 86 | | 6.672 | | | | | |
| 139 4-Bromophenyl phenyl ether | 248 | | 6.680 | | | | | |
| 140 Dimethoate | 87 | | 6.741 | | | | | |
| 141 Hexachlorobenzene | 284 | | 6.749 | | | | | |
| 142 Atrazine | 200 | | 6.776 | | | | | |
| 129 4-Aminobiphenyl | 169 | | 6.870 | | | | | |
| 143 Pentachlorophenol | 266 | | 6.883 | | | | | |
| 145 Pentachloronitrobenzene | 237 | | 6.891 | | | | | |
| 144 Pronamide | 173 | | 6.891 | | | | | |
| 146 Disulfoton | 88 | | 6.987 | | | | | |
| 147 Dinoseb | 211 | | 6.992 | | | | | |
| 148 Phenanthrene | 178 | 7.037 | 7.043 | -0.006 | 81 | 108632 | 0.8012 | |
| 149 Anthracene | 178 | 7.075 | 7.081 | -0.006 | 78 | 43873 | 0.3129 | |
| 151 Carbazole | 167 | | 7.187 | | | | | |
| 152 Methyl parathion | 109 | | 7.265 | | | | | |
| 154 Di-n-butyl phthalate | 149 | 7.390 | 7.396 | -0.006 | 95 | 73882 | 0.4348 | |
| 155 Ethyl Parathion | 97 | | 7.537 | | | | | |
| 156 4-Nitroquinoline-1-oxide | 190 | | 7.591 | | | | | |
| 153 Diphenylsulfone | 125 | | 7.616 | | | | | |
| 157 Methapyrilene | 58 | | 7.623 | | | | | |
| 158 Isodrin | 66 | | 7.794 | | | | | |
| 159 Fluoranthene | 202 | 7.908 | 7.909 | -0.001 | 78 | 359896 | 2.38 | |
| 160 Benzidine | 184 | | 7.978 | | | | | |
| 161 Pyrene | 202 | 8.074 | 8.079 | -0.005 | 71 | 409748 | 2.66 | |
| 166 4,4'-DDE | 246 | | 8.107 | | | | | |
| 226 Aramite Peak 1 | 185 | | 8.114 | | | | | |
| 229 Aramite Peak 2 | 185 | | 8.168 | | | | | |
| 163 p-Dimethylamino azobenzene | 225 | | 8.259 | | | | | |
| 164 Chlorobenzilate | 139 | | 8.280 | | | | | |
| 165 4,4'-DDD | 235 | | 8.353 | | | | | |
| 167 Famphur | 218 | | 8.462 | | | | | |
| 168 Butyl benzyl phthalate | 149 | | 8.496 | | | | | |
| 169 3,3'-Dimethylbenzidine | 212 | | 8.504 | | | | | |
| 170 4,4'-DDT | 235 | | 8.583 | | | | | |
| 171 2-Acetylaminofluorene | 181 | | 8.702 | | | | | |
| 172 3,3'-Dimethoxybenzidine | 244 | | 8.897 | | | | | |
| 173 Bis(2-ethylhexyl) phthalate | 149 | 8.896 | 8.908 | -0.012 | 85 | 51815 | 0.4679 | |
| 174 4,4'-Methylene bis(2-chloroanili | 231 | | 8.924 | | | | | |
| 175 3,3'-Dichlorobenzidine | 252 | | 8.929 | | | | | |
| 177 Benzo[a]anthracene | 228 | 8.960 | 8.972 | -0.012 | 88 | 200226 | 1.41 | |
| 178 Chrysene | 228 | 8.987 | 8.998 | -0.011 | 80 | 247512 | 1.95 | |
| 176 Hexabromobenzene | 232 | | 9.208 | | | | | |
| 180 Di-n-octyl phthalate | 149 | | 9.404 | | | | | |
| 179 6-Methylchrysene | 242 | | 9.576 | | | | | |
| 181 7,12-Dimethylbenz(a)anthracene | 256 | | 9.840 | | | | | |
| 182 Benzo[b]fluoranthene | 252 | 9.858 | 9.869 | -0.011 | 81 | 292496 | 2.31 | M |
| 183 Benzo[k]fluoranthene | 252 | 9.869 | 9.896 | -0.027 | 83 | 159635 | 1.23 | M |
| 184 Benzo[a]pyrene | 252 | 10.189 | 10.206 | -0.017 | 77 | 218804 | 1.86 | |
| 185 3-Methylcholanthrene | 268 | | 10.566 | | | | | |

Sample Calculation

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-13070-1  Analy Batch No.: 51126

SDG No.:

Instrument ID: A4HP9  GC Column: RXI-5SILMS  ID: 0.45(mm)  Heated Purge: (Y/N) N

Calibration Start Date: 07/18/2012 09:54  Calibration End Date: 07/18/2012 12:29  Calibration ID: 10168

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Di-n-butyl phthalate | | 1.3243 | 1.3784 | 1.3597 | 1.3971 | Ave | | 1.4660 | | | 0.0100 | 7.9 | | 20.0 | | | |
| | 1.5042 | 1.5493 | 1.5776 | 1.6372 | | | | | | | | | | | | | |
| Fluoranthene | 1.2988 | 1.1705 | 1.2218 | 1.1901 | 1.2336 | Ave | | 1.3058 | | | 0.6000 | 8.2 | | 20.0 | | | |
| | 1.3616 | 1.3873 | 1.4265 | 1.4618 | | | | | | | | | | | | | |
| Benzidine | | 0.6766 | 0.7293 | 0.6994 | 0.7834 | Ave | | 0.7729 | | | | 8.3 | | 20.0 | | | |
| | 0.8547 | 0.8348 | 0.8121 | 0.7926 | | | | | | | | | | | | | |
| Pyrene | 1.5064 | 1.3954 | 1.4240 | 1.3627 | 1.4080 | Ave | | 1.4809 | | | 0.6000 | 5.8 | | 20.0 | | | |
| | 1.5142 | 1.5594 | 1.5521 | 1.6063 | | | | | | | | | | | | | |
| Butyl benzyl phthalate | | 0.7009 | 0.6804 | 0.6584 | 0.7178 | Ave | | 0.7326 | | | 0.0100 | 6.8 | | 20.0 | | | |
| | 0.7678 | 0.7755 | 0.7672 | 0.7929 | | | | | | | | | | | | | |
| 3,3'-Dimethoxybenzidine | | 0.2632 | 0.3112 | 0.3169 | 0.3561 | Ave | | 0.3514 | | | | 14.0 | | 20.0 | | | |
| | 0.3840 | 0.3903 | 0.3851 | 0.4047 | | | | | | | | | | | | | |
| Bis(2-ethylhexyl) phthalate | | 0.9763 | 0.9914 | 0.9615 | 1.0027 | Ave | | 1.0629 | | | 0.0100 | 8.3 | | 20.0 | | | |
| | 1.1000 | 1.1412 | 1.1597 | 1.1703 | | | | | | | | | | | | | |
| 4,4'-Methylene bis(2-chloroaniline) | | 0.2158 | 0.2494 | 0.2578 | 0.2704 | Ave | | 0.2734 | | | | 11.0 | | 20.0 | | | |
| | 0.2905 | 0.3015 | 0.2965 | 0.3056 | | | | | | | | | | | | | |
| 3,3'-Dichlorobenzidine | | 0.4299 | 0.4451 | 0.4581 | 0.4782 | Ave | | 0.4863 | | | 0.0100 | 8.1 | | 20.0 | | | |
| | 0.5050 | 0.5217 | 0.5160 | 0.5363 | | | | | | | | | | | | | |
| Benzo[a]anthracene | 1.5473 | 1.3099 | 1.3096 | 1.2620 | 1.2984 | Ave | | 1.3656 | | | 0.8000 | 6.3 | | 20.0 | | | |
| | 1.3698 | 1.3901 | 1.3701 | 1.4335 | | | | | | | | | | | | | |
| Chrysene | 1.3272 | 1.1577 | 1.1743 | 1.1348 | 1.1569 | Ave | | 1.2212 | | | 0.7000 | 5.6 | | 20.0 | | | |
| | 1.2366 | 1.2666 | 1.2444 | 1.2925 | | | | | | | | | | | | | |
| Di-n-octyl phthalate | | 2.0943 | 2.2085 | 2.2950 | 2.4178 | Ave | | 2.4712 | | | 0.0100 | 10.0 | | 20.0 | | | |
| | 2.6027 | 2.6600 | 2.7206 | 2.7706 | | | | | | | | | | | | | |
| Benzo[b]fluoranthene | 1.6393 | 1.4488 | 1.5975 | 1.5883 | 1.6086 | Ave | | 1.7144 | | | 0.7000 | 11.0 | | 20.0 | | | |
| | 1.7471 | 1.8173 | 1.9395 | 2.0434 | | | | | | | | | | | | | |
| Benzo[k]fluoranthene | 1.8351 | 1.5771 | 1.6406 | 1.6927 | 1.8214 | Ave | | 1.7601 | | | 0.7000 | 5.7 | | 20.0 | | | |
| | 1.8718 | 1.8389 | 1.7697 | 1.7939 | | | | | | | | | | | | | |
| Benzo[a]pyrene | 1.5703 | 1.4324 | 1.5187 | 1.5179 | 1.5461 | Ave | | 1.5921 | | | 0.7000 | 6.2 | | 20.0 | | | |
| | 1.6723 | 1.6655 | 1.6693 | 1.7368 | | | | | | | | | | | | | |
| Indeno[1,2,3-cd]pyrene | 1.6770 | 1.4554 | 1.5488 | 1.6029 | 1.6514 | Ave | | 1.6927 | | | 0.5000 | 8.4 | | 20.0 | | | |
| | 1.7904 | 1.8060 | 1.8222 | 1.8804 | | | | | | | | | | | | | |
| Dibenzo(a,h)anthracene | 1.2068 | 1.1140 | 1.2375 | 1.2778 | 1.3735 | Ave | | 1.3666 | | | 0.4000 | 12.0 | | 20.0 | | | |
| | 1.4718 | 1.5009 | 1.5309 | 1.5863 | | | | | | | | | | | | | |
| Benzo[g,h,i]perylene | 1.4397 | 1.2402 | 1.2673 | 1.3168 | 1.3402 | Ave | | 1.3791 | | | 0.5000 | 6.7 | | 20.0 | | | |
| | 1.4221 | 1.4240 | 1.4426 | 1.5187 | | | | | | | | | | | | | |
| 2-Fluorophenol (Surr) | | 1.6394 | 1.7092 | 1.6253 | 1.6640 | Ave | | 1.7650 | | | | 6.6 | | 20.0 | | | |
| | 1.8389 | 1.9144 | 1.8652 | 1.8632 | | | | | | | | | | | | | |
| Phenol-d5 (Surr) | | 2.6680 | 2.5819 | 2.4865 | 2.5611 | Ave | | 2.7511 | | | | 7.1 | | 20.0 | | | |
| | 2.9128 | 2.9215 | 2.9653 | 2.9119 | | | | | | | | | | | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

Sample Calculation

FORM I

GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-SS18-0-2 | Lab Sample ID: 240-13070-2

Matrix: Solid | Lab File ID: YF071812.D

Analysis Method: 8015C | Date Collected: 07/10/2012 09:15

Sample wt/vol: 5(g) | Date Analyzed: 07/18/2012 20:06

Soil Aliquot Vol: | Dilution Factor: 2

Soil Extract Vol.: | GC Column: RTX-VRX ID: 0.45(mm)

% Moisture: 16.1 | Level: (low/med) Low

Analysis Batch No.: 51212 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 8006-61-9 | Total Petroleum Hydrocarbons (C6-C10) | 380 | | 240 | 110 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 98-08-8 | Trifluorotoluene (Surr) | 78 | | 10-150 |

Report Date: 19-Jul-2012 10:58:36 Chrom Revision: 2.0 08-Feb-2012 11:07:54

Sample Calculation

TestAmerica Laboratories
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Ncchrom\ChromData\YPID\20120718-11637.b\YF071812.D | | |
| Lims ID: | 240-13070-B-2 | Client ID: | MT-SS18-0-2 |
| Inject. Date: | 18-Jul-2012 20:06:32 | Dil. Factor: | 2.0000 |
| Sample Type: | Client | | |
| Sample ID: | 240-0011637-012 | | |
| Misc. Info.: | | | |
| Operator: | 1765 | Instrument ID: | YPID |
| Vol. Injected: | 1.0000 | ALS Bottle#: | 1 |
| Lims Batch ID: | 51212 | Lims Sample ID: | 12 |
| Detector 1 : | GC ELC2B | | |
| Detector 2 : | GC FID1A | | |
| Method: | \\Ncchrom\ChromData\YPID\20120718-11637.b\Y80158021.m | | |
| Last Update: | 19-Jul-2012 10:58:21 | Calib Date: | 29-Jun-2012 17:30:24 |
| Quant Method: | Internal/External Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Ncchrom\ChromData\YPID\20120629-11227.b\YF062909.D | | |
| Limit Group: | GCV 8015C GRO ICAL | | |
| Integrator: | Falcon | | |
| Process Host: | XAWRK026 | | |

| Compound | Det | RT | ADJ RT | DLT RT | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|
| * 15 Fluorobenzene | 1 | 0.000 | 8.477 | -8.477 | 0 | 0 | |
| $ 16 Trifluorotoluene (Surr) | 2 | 9.750 | 9.754 | -0.004 | 2579447 | 7.76 | |
| A 5 C6-C10 | 2 | 11.794 | 4.790 - 18.790 | | 53453394 | 157.7 | |

Sample Calculation

FORM VI
GC VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-13070-1  Analy Batch No.: 49409

SDG No.:

Instrument ID: YPID  GC Column: RTX-VRX  ID: 0.45(mm)  Heated Purge: (Y/N) N

Calibration Start Date: 06/29/2012 13:39  Calibration End Date: 06/29/2012 17:30  Calibration ID: 9879

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-49409/4 | YF062904.D |
| Level 2 | STD2 240-49409/5 | YF062905.D |
| Level 3 | STD3 240-49409/6 | YF062906.D |
| Level 4 | STD4 240-49409/7 | YF062907.D |
| Level 5 | STD5 240-49409/8 | YF062908.D |
| Level 6 | STD6 240-49409/9 | YF062909.D |

| ANALYTE | CF | | | | CURVE TYPE | COEFFICIENT | | | # | MIN CF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 5 | LVL 2<br>LVL 6 | LVL 3 | LVL 4 | | B | M1 | M2 | | | | | | | | |
| Total Petroleum Hydrocarbons (C6-C10) | 396398<br>309079 | 363256<br>311555 | 337661 | 315467 | Ave | | 338902.687 | | | | 10.0 | | 20.0 | | | |
| C6-C12 | 482905<br>340285 | 415902<br>342255 | 378953 | 348850 | Ave | | 384858.436 | | | | 15.0 | | 20.0 | | | |
| Trifluorotoluene (Surr) | 284961<br>354937 | 292193<br>411371 | 314695 | 335646 | Ave | | 332300.483 | | | | 14.0 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

Sample Calculation

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13070-1

SDG No.:

Client Sample ID: MT-SB17-0-2 | Lab Sample ID: 240-13070-5

Matrix: Solid | Lab File ID: P5B72605.D

Analysis Method: 8015C | Date Collected: 07/10/2012 10:25

Extraction Method: 3540C | Date Extracted: 07/20/2012 11:12

Sample wt/vol: 29.95(g) | Date Analyzed: 07/26/2012 16:09

Con. Extract Vol.: 5.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ID:

% Moisture: 16.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 52120 | Units: mg/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| STL00141 | Total Petroleum Hydrocarbons (C10-C32) | 240 | | 20 | 11 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 111-84-2 | n-Nonane | 35 | | 10-110 |

TestAmerica Laboratories
Target Compound Quantitation Report

Sample Calculation

| | | | |
|---|---|---|---|
| Data File: | \\Ncchrom\ChromData\A2HP5R\20120726-11853.b\P5B72605.D | | |
| Lims ID: | 240-13070-G-5-G | Client ID: | MT-SB17-0-2 |
| Inject. Date: | 26-Jul-2012 16:09:17 | Dil. Factor: | 1.0000 |
| Sample Type: | Client | | |
| Sample ID: | 240-0011853-005 | | |
| Misc. Info.: | | | |
| Operator: | 4275 | Instrument ID: | A2HP5R |
| Vol. Injected: | 1.0000 | ALS Bottle#: | 55 |
| Lims Batch ID: | 52120 | Lims Sample ID: | 5 |
| Detector: | GC FID2B | | |
| Method: | \\Ncchrom\ChromData\A2HP5R\20120726-11853.b\TPH5R.m | | |
| Last Update: | 27-Jul-2012 08:54:26 | Calib Date: | 12-Jun-2012 15:37:32 |
| Quant Method: | External Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Ncchrom\ChromData\A2HP5R\20120612-10665.b\P5B61214.D | | |
| Limit Group: | GC 8015C TPH ICAL | | |
| Integrator: | Falcon | | |
| Process Host: | XAWRK027 | | |

| RT | EXP RT | DLT RT | Response | On-Col Amt ng/ul | Flags |
|---|---|---|---|---|---|
| $ 8 n-Nonane | | | | | |
| 3.574 | 3.597 | -0.023 | 6284435 | 34.8 | |
| A 15 Diesel | | | | | |
| 8.977 | 4.757 - 13.197 | | 113844523 | 730.7 | |
| A 17 C10-C32 | | | | | |
| 9.549 | 4.757 - 14.341 | | 185485652 | 1190.6 | |

Sample Calculation

FORM VI
DIESEL RANGE ORGANICS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-13070-1  Analy Batch No.: 47065

SDG No.:

Instrument ID: A2HP5R  GC Column:  ID:  Heated Purge: (Y/N) N

Calibration Start Date: 06/12/2012 10:28  Calibration End Date: 06/12/2012 12:32  Calibration ID: 9252

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-47065/4 | P5B61204.D |
| Level 2 | STD2 240-47065/5 | P5B61205.D |
| Level 3 | STD3 240-47065/6 | P5B61206.D |
| Level 4 | STD4 240-47065/7 | P5B61207.D |
| Level 5 | STD5 240-47065/8 | P5B61208.D |

| ANALYTE | CF | | | | CURVE TYPE | COEFFICIENT | | | # | MIN CF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 5 | LVL 2 | LVL 3 | LVL 4 | | B | M1 | M2 | | | | | | | | |
| Diesel | 165734<br>158267 | 149495 | 178830 | 126631 | Ave | | 155791.354 | | | | 13.0 | | 20.0 | | | |
| n-Nonane | 196545<br>186321 | 175458 | 192406 | 151130 | Ave | | 180372.163 | | | | 10.0 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab File ID: BFB14171.D BFB Injection Date: 06/28/2012

Instrument ID: A3UX14 BFB Injection Time: 13:38

Analysis Batch No.: 49285

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 50 | 15.0 - 40.0 % of mass 95 | 29.3 | |
| 75 | 30.0 - 60.0 % of mass 95 | 49.6 | |
| 95 | Base Peak, 100% relative abundance | 100.0 | |
| 96 | 5.0 - 9.0 % of mass 95 | 6.6 | |
| 173 | Less than 2.0 % of mass 174 | 0.0 | (0.0)1 |
| 174 | 50.0 - 120.00 % of mass 95 | 79.7 | |
| 175 | 5.0 - 9.0 % of mass 174 | 6.3 | (7.9)1 |
| 176 | 95.0 - 101.0 % of mass 174 | 79.7 | (100.0)1 |
| 177 | 5.0 - 9.0 % of mass 176 | 5.4 | (6.8)2 |

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | IC 240-49285/3 | 146443.D | 06/28/2012 | 14:23 |
| | IC 240-49285/4 | 146444.D | 06/28/2012 | 14:44 |
| | ICIS 240-49285/5 | 146445.D | 06/28/2012 | 15:06 |
| | IC 240-49285/6 | 146446.D | 06/28/2012 | 15:27 |
| | IC 240-49285/7 | 146447.D | 06/28/2012 | 15:49 |
| | IC 240-49285/8 | 146448.D | 06/28/2012 | 16:11 |
| | IC 240-49285/9 | 146449.D | 06/28/2012 | 16:32 |
| | IC 240-49285/10 | 146450.D | 06/28/2012 | 16:54 |
| | IC 240-49285/11 | 146451.D | 06/28/2012 | 17:16 |
| | IC 240-49285/12 | 146452.D | 06/28/2012 | 17:38 |
| | IC 240-49285/13 | 146453.D | 06/28/2012 | 17:59 |
| | IC 240-49285/14 | 146454.D | 06/28/2012 | 18:21 |
| | IC 240-49285/15 | 146455.D | 06/28/2012 | 18:43 |
| | IC 240-49285/16 | 146456.D | 06/28/2012 | 19:04 |
| | IC 240-49285/17 | 146457.D | 06/28/2012 | 19:26 |
| | IC 240-49285/18 | 146458.D | 06/28/2012 | 19:48 |
| | IC 240-49285/19 | 146459.D | 06/28/2012 | 20:09 |
| | IC 240-49285/20 | 146460.D | 06/28/2012 | 20:31 |
| | ICV 240-49285/21 | 146461.D | 06/28/2012 | 20:52 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-13070-1  Analy Batch No.: 49285

SDG No.:

Instrument ID: A3UX14  GC Column: DB-624  ID: 0.18(mm)  Heated Purge: (Y/N) Y

Calibration Start Date: 06/28/2012 14:23  Calibration End Date: 06/28/2012 17:16  Calibration ID: 9778

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | IC 240-49285/11 | 146451.D |
| Level 2 | IC 240-49285/10 | 146450.D |
| Level 3 | IC 240-49285/9 | 146449.D |
| Level 4 | IC 240-49285/8 | 146448.D |
| Level 5 | IC 240-49285/7 | 146447.D |
| Level 6 | IC 240-49285/6 | 146446.D |
| Level 7 | ICIS 240-49285/5 | 146445.D |
| Level 8 | IC 240-49285/4 | 146444.D |
| Level 9 | IC 240-49285/3 | 146443.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Dichlorodifluoromethane | 0.2474<br>0.3302 | 0.3106<br>0.3542 | 0.2505<br>0.3632 | 0.3465<br>0.3503 | 0.3076 | Ave | | 0.3178 | | | | 14.0 | | 15.0 | | | |
| Chloromethane | 0.6187<br>0.6430 | 0.6349<br>0.6469 | 0.6274<br>0.6476 | 0.6591<br>0.6590 | 0.5983 | Ave | | 0.6372 | | | 0.1000 | 3.1 | | 15.0 | | | |
| Vinyl chloride | 0.3247<br>0.4121 | 0.3680<br>0.4297 | 0.3750<br>0.4487 | 0.4034<br>0.4233 | 0.3856 | Ave | | 0.3967 | | | | 9.5 | | 15.0 | | | |
| Bromomethane | 0.1479<br>0.1281 | 0.2156<br>0.1379 | 0.1410<br>0.1403 | 0.1321<br>0.1273 | 0.1237 | Lin1 | 0.0280 | 0.1317 | | | | | | | 0.9970 | | 0.9900 |
| Chloroethane | 0.1796<br>0.1768 | 0.1847<br>0.1980 | 0.1564<br>0.2062 | 0.1946<br>0.1936 | 0.1786 | Ave | | 0.1854 | | | | 8.0 | | 15.0 | | | |
| Trichlorofluoromethane | 0.2243<br>0.3481 | 0.2681<br>0.3897 | 0.2440<br>0.4124 | 0.3299<br>0.3997 | 0.3138 | Lin1 | -0.169 | 0.3985 | | | | | | | 0.9980 | | 0.9900 |
| Acrolein | 0.0307<br>0.0389 | 0.0361<br>0.0387 | 0.0353<br>0.0407 | 0.0341<br>0.0374 | 0.0359 | Ave | | 0.0364 | | | | 8.1 | | 15.0 | | | |
| 1,1-Dichloroethene | 0.1865<br>0.2426 | 0.2307<br>0.2614 | 0.1960<br>0.2702 | 0.2378<br>0.2606 | 0.2309 | Ave | | 0.2352 | | | | 12.0 | | 15.0 | | | |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | +++++<br>0.2293 | 0.1854<br>0.2536 | 0.1750<br>0.2570 | 0.2473<br>0.2434 | 0.2145 | Ave | | 0.2257 | | | | 14.0 | | 15.0 | | | |
| Acetone | 0.8608<br>0.1154 | 0.5410<br>0.0989 | 0.3159<br>0.0931 | 0.1645<br>0.0857 | 0.1256 | Lin1 | 0.8348 | 0.0866 | | | | | | | 0.9970 | | 0.9900 |
| Iodomethane | 0.3760<br>0.4045 | 0.4013<br>0.4655 | 0.3664<br>0.4779 | 0.4028<br>0.4452 | 0.3931 | Ave | | 0.4148 | | | | 9.4 | | 15.0 | | | |
| Carbon disulfide | +++++<br>0.5185 | +++++<br>0.6788 | +++++<br>0.7582 | 0.4181<br>0.7479 | 0.4509 | Lin1 | -2.517 | 0.7569 | | | | | | | 0.9970 | | 0.9900 |
| Acetonitrile | 0.0537<br>0.0372 | 0.0392<br>0.0351 | 0.0363<br>0.0366 | 0.0331<br>0.0331 | 0.0347 | Lin1 | 0.0758 | 0.0344 | | | | | | | 0.9980 | | 0.9900 |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-13070-1  Analy Batch No.: 49285

SDG No.:

Instrument ID: A3UX14  GC Column: DB-624  ID: 0.18(mm)  Heated Purge: (Y/N) Y

Calibration Start Date: 06/28/2012 14:23  Calibration End Date: 06/28/2012 17:16  Calibration ID: 9778

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Methyl acetate | 0.4236<br>0.2803 | 0.3291<br>0.2614 | 0.2939<br>0.2674 | 0.2641<br>0.2529 | 0.2579 | Lin1 | 0.1579 | 0.2582 | | | | | | | 0.9990 | | 0.9900 |
| Methylene Chloride | 3.5454<br>0.3588 | 2.1209<br>0.3082 | 1.2661<br>0.2969 | 0.6018<br>0.2677 | 0.4304 | Lin1 | 1.7480 | 0.2673 | | | | | | | 0.9960 | | 0.9900 |
| tert-Butyl alcohol | 0.0305<br>0.0240 | 0.0248<br>0.0218 | 0.0225<br>0.0231 | 0.0199<br>0.0205 | 0.0208 | Ave | | 0.0231 | | | | 14.0 | | 15.0 | | | |
| Acrylonitrile | 0.1236<br>0.1220 | 0.1069<br>0.1187 | 0.1155<br>0.1223 | 0.1147<br>0.1111 | 0.1101 | Ave | | 0.1161 | | | | 5.1 | | 15.0 | | | |
| trans-1,2-Dichloroethene | 0.2915<br>0.2903 | 0.2443<br>0.3091 | 0.2545<br>0.3136 | 0.2779<br>0.2921 | 0.2604 | Ave | | 0.2815 | | | | 8.6 | | 15.0 | | | |
| Methyl tert-butyl ether | 0.6525<br>0.6893 | 0.6208<br>0.7148 | 0.6251<br>0.7374 | 0.6173<br>0.6840 | 0.6201 | Ave | | 0.6624 | | | | 6.9 | | 15.0 | | | |
| Hexane | 0.1453<br>0.0796 | 0.1016<br>0.0842 | 0.0695<br>0.0797 | 0.0876<br>0.0806 | 0.0813 | Lin1 | 0.0220 | 0.0804 | | | | | | | 0.9990 | | 0.9900 |
| 1,1-Dichloroethane | 0.6121<br>0.6136 | 0.5775<br>0.6636 | 0.5871<br>0.6772 | 0.6057<br>0.6395 | 0.5946 | Ave | | 0.6190 | | | 0.1000 | 5.5 | | 15.0 | | | |
| Vinyl acetate | 0.0339<br>0.0290 | 0.0339<br>0.0300 | 0.0247<br>0.0319 | 0.0245<br>0.0327 | 0.0274 | Ave | | 0.0298 | | | | 12.0 | | 15.0 | | | |
| 2,2-Dichloropropane | 0.1696<br>0.2375 | 0.1803<br>0.2767 | 0.1773<br>0.2943 | 0.2234<br>0.2680 | 0.2248 | Lin1 | -0.107 | 0.2743 | | | | | | | 0.9960 | | 0.9900 |
| cis-1,2-Dichloroethene | 0.2813<br>0.2976 | 0.2970<br>0.3197 | 0.2716<br>0.3203 | 0.2976<br>0.3022 | 0.2697 | Ave | | 0.2952 | | | | 6.2 | | 15.0 | | | |
| 2-Butanone | 0.4645<br>0.1493 | 0.2620<br>0.1305 | 0.1888<br>0.1329 | 0.1467<br>0.1322 | 0.1417 | Lin1 | 0.2926 | 0.1312 | | | | | | | 0.9990 | | 0.9900 |
| Bromochloromethane | 0.1456<br>0.1387 | 0.1358<br>0.1429 | 0.1308<br>0.1463 | 0.1316<br>0.1382 | 0.1282 | Ave | | 0.1376 | | | | 4.8 | | 15.0 | | | |
| Tetrahydrofuran | 0.2835<br>0.1046 | 0.2150<br>0.0954 | 0.1414<br>0.0986 | 0.1142<br>0.0908 | 0.1042 | Lin1 | 0.1054 | 0.0931 | | | | | | | 0.9980 | | 0.9900 |
| Chloroform | 0.4360<br>0.4900 | 0.4307<br>0.5178 | 0.4452<br>0.5255 | 0.4790<br>0.5029 | 0.4605 | Ave | | 0.4764 | | | | 7.4 | | 15.0 | | | |
| 1,1,1-Trichloroethane | 0.2879<br>0.3973 | 0.3217<br>0.4443 | 0.3017<br>0.4615 | 0.3592<br>0.4360 | 0.3651 | Lin1 | -0.153 | 0.4412 | | | | | | | 0.9980 | | 0.9900 |
| Cyclohexane | 0.5798<br>0.8296 | 0.6788<br>0.8976 | 0.5798<br>0.9194 | 0.8210<br>0.8736 | 0.7750 | Lin1 | -0.264 | 0.8867 | | | | | | | 0.9990 | | 0.9900 |
| 1,1-Dichloropropene | 0.3611<br>0.4036 | 0.3612<br>0.4292 | 0.3275<br>0.4357 | 0.3963<br>0.4235 | 0.3837 | Ave | | 0.3913 | | | | 9.3 | | 15.0 | | | |
| Carbon tetrachloride | 0.2639<br>0.3709 | 0.2939<br>0.4262 | 0.2599<br>0.4455 | 0.3216<br>0.4276 | 0.3332 | Lin1 | -0.183 | 0.4282 | | | | | | | 0.9970 | | 0.9900 |
| Benzene | 1.0444<br>1.0599 | 1.0304<br>1.1063 | 0.9760<br>1.1156 | 1.0604<br>1.0914 | 1.0174 | Ave | | 1.0558 | | | | 4.2 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-13070-1  Analy Batch No.: 49285

SDG No.:

Instrument ID: A3UX14  GC Column: DB-624  ID: 0.18(mm)  Heated Purge: (Y/N) Y

Calibration Start Date: 06/28/2012 14:23  Calibration End Date: 06/28/2012 17:16  Calibration ID: 9778

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 1,2-Dichloroethane | 0.4351<br>0.4191 | 0.4136<br>0.4255 | 0.3895<br>0.4274 | 0.4315<br>0.4177 | 0.4086 | Ave | | 0.4187 | | | | 3.3 | | 15.0 | | | |
| Trichloroethene | 0.3056<br>0.3042 | 0.2688<br>0.3169 | 0.2697<br>0.3261 | 0.2955<br>0.3215 | 0.2934 | Ave | | 0.3002 | | | | 6.9 | | 15.0 | | | |
| Methylcyclohexane | 0.3490<br>0.5329 | 0.4048<br>0.5863 | 0.3547<br>0.5939 | 0.5190<br>0.5659 | 0.5013 | Lin1 | -0.196 | 0.5746 | | | | | | | 0.9990 | | 0.9900 |
| 1,2-Dichloropropane | 0.2685<br>0.3045 | 0.2807<br>0.3167 | 0.2800<br>0.3209 | 0.2983<br>0.3214 | 0.2966 | Ave | | 0.2986 | | | | 6.4 | | 15.0 | | | |
| Dibromomethane | 0.1007<br>0.1283 | 0.1249<br>0.1299 | 0.1103<br>0.1346 | 0.1145<br>0.1313 | 0.1191 | Ave | | 0.1215 | | | | 9.2 | | 15.0 | | | |
| 1,4-Dioxane | 0.0025<br>0.0019 | 0.0017<br>0.0018 | 0.0016<br>0.0019 | 0.0018<br>0.0018 | 0.0017 | Ave | | 0.0019 | | | | 14.0 | | 15.0 | | | |
| Bromodichloromethane | 0.1935<br>0.2692 | 0.2408<br>0.2972 | 0.2021<br>0.3205 | 0.2371<br>0.3265 | 0.2414 | Lin1 | -0.135 | 0.3170 | | | | | | | 0.9960 | | 0.9900 |
| 2-Chloroethyl vinyl ether | 0.0637<br>0.0949 | 0.0664<br>0.0930 | 0.0723<br>0.1007 | 0.0850<br>0.1112 | 0.0929 | Lin1 | -0.086 | 0.1052 | | | | | | | 0.9950 | | 0.9900 |
| cis-1,3-Dichloropropene | 0.2351<br>0.3165 | 0.2128<br>0.3441 | 0.2373<br>0.3657 | 0.2648<br>0.3860 | 0.2877 | Lin1 | -0.176 | 0.3704 | | | | | | | 0.9960 | | 0.9900 |
| 4-Methyl-2-pentanone | 0.4233<br>0.4213 | 0.3823<br>0.4050 | 0.3480<br>0.4123 | 0.3515<br>0.3951 | 0.3803 | Ave | | 0.3910 | | | | 7.1 | | 15.0 | | | |
| Toluene | 2.0952<br>1.6765 | 1.8570<br>1.7346 | 1.6845<br>1.7009 | 1.7516<br>1.6689 | 1.6298 | Ave | | 1.7554 | | | | 8.1 | | 15.0 | | | |
| trans-1,3-Dichloropropene | 0.3048<br>0.3910 | 0.3054<br>0.4150 | 0.3007<br>0.4384 | 0.3374<br>0.4590 | 0.3596 | Lin1 | -0.174 | 0.4431 | | | | | | | 0.9970 | | 0.9900 |
| Ethyl methacrylate | 0.2715<br>0.3135 | 0.2825<br>0.2997 | 0.2504<br>0.3115 | 0.2568<br>0.3241 | 0.2798 | Ave | | 0.2878 | | | | 9.0 | | 15.0 | | | |
| 1,1,2-Trichloroethane | 0.2149<br>0.2476 | 0.2561<br>0.2457 | 0.2331<br>0.2440 | 0.2353<br>0.2403 | 0.2506 | Ave | | 0.2408 | | | | 5.0 | | 15.0 | | | |
| Tetrachloroethene | 0.3389<br>0.3670 | 0.3182<br>0.3744 | 0.3052<br>0.3643 | 0.3584<br>0.3570 | 0.3491 | Ave | | 0.3481 | | | | 6.7 | | 15.0 | | | |
| 1,3-Dichloropropane | 0.3718<br>0.4470 | 0.4537<br>0.4456 | 0.4438<br>0.4413 | 0.4396<br>0.4424 | 0.4473 | Ave | | 0.4369 | | | | 5.7 | | 15.0 | | | |
| 2-Hexanone | 0.2735<br>0.2328 | 0.2355<br>0.2112 | 0.1970<br>0.2191 | 0.2062<br>0.2269 | 0.2222 | Ave | | 0.2249 | | | | 9.8 | | 15.0 | | | |
| Dibromochloromethane | 0.1711<br>0.2636 | 0.2360<br>0.2958 | 0.1746<br>0.3219 | 0.2304<br>0.3269 | 0.2362 | Lin1 | -0.154 | 0.3171 | | | | | | | 0.9950 | | 0.9900 |
| 1,2-Dibromoethane | 0.2605<br>0.2513 | 0.2800<br>0.2496 | 0.2340<br>0.2508 | 0.2442<br>0.2487 | 0.2446 | Ave | | 0.2515 | | | | 5.1 | | 15.0 | | | |
| trans-1,4-Dichloro-2-butene | +++++<br>0.2367 | 0.2683<br>0.2132 | 0.2147<br>0.2243 | 0.2081<br>0.2528 | 0.2046 | Ave | | 0.2278 | | | | 10.0 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-13070-1  Analy Batch No.: 49285

SDG No.:

Instrument ID: A3UX14  GC Column: DB-624  ID: 0.18(mm)  Heated Purge: (Y/N) Y

Calibration Start Date: 06/28/2012 14:23  Calibration End Date: 06/28/2012 17:16  Calibration ID: 9778

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Chlorobenzene | 1.0199<br>1.0341 | 1.0420<br>1.0647 | 0.9849<br>1.0683 | 1.0541<br>1.0669 | 1.0130 | Ave | | 1.0387 | | | 0.3000 | 2.8 | | 15.0 | | | |
| 1,1,1,2-Tetrachloroethane | +++++<br>0.3826 | 0.3799<br>0.4348 | 0.3026<br>0.4328 | 0.3698<br>0.4081 | 0.3635 | Ave | | 0.3843 | | | | 11.0 | | 15.0 | | | |
| Ethylbenzene | 0.5653<br>0.5729 | 0.5513<br>0.5907 | 0.4963<br>0.5947 | 0.5742<br>0.5828 | 0.5554 | Ave | | 0.5649 | | | | 5.2 | | 15.0 | | | |
| m-Xylene & p-Xylene | 0.7788<br>0.7091 | 0.6394<br>0.7310 | 0.5891<br>0.7257 | 0.7047<br>0.7147 | 0.6893 | Ave | | 0.6980 | | | | 7.9 | | 15.0 | | | |
| o-Xylene | 0.7253<br>0.7233 | 0.6501<br>0.7625 | 0.5919<br>0.7504 | 0.7180<br>0.7047 | 0.6762 | Ave | | 0.7003 | | | | 7.6 | | 15.0 | | | |
| Styrene | 1.1280<br>1.0517 | 0.9483<br>1.0748 | 0.8906<br>1.0968 | 1.0160<br>1.0998 | 1.0339 | Ave | | 1.0378 | | | | 7.4 | | 15.0 | | | |
| Bromoform | +++++<br>0.1245 | +++++<br>0.1361 | 0.0991<br>0.1540 | 0.0997<br>0.1623 | 0.1093 | Lin1 | -0.239 | 0.1566 | | | 0.1000 | | | | 0.9950 | | 0.9900 |
| Isopropylbenzene | 1.5213<br>1.9831 | 1.5974<br>2.1756 | 1.4837<br>2.1410 | 1.8760<br>2.0713 | 1.8318 | Ave | | 1.8535 | | | | 14.0 | | 15.0 | | | |
| 1,1,2,2-Tetrachloroethane | 0.5485<br>0.5747 | 0.5095<br>0.5683 | 0.4432<br>0.5831 | 0.5292<br>0.5831 | 0.5335 | Ave | | 0.5415 | | | 0.3000 | 8.3 | | 15.0 | | | |
| Bromobenzene | 0.8042<br>0.7894 | 0.7367<br>0.7911 | 0.6989<br>0.8109 | 0.7737<br>0.8310 | 0.7413 | Ave | | 0.7752 | | | | 5.4 | | 15.0 | | | |
| 1,2,3-Trichloropropane | 0.2409<br>0.1937 | 0.1947<br>0.1876 | 0.1967<br>0.1877 | 0.2041<br>0.1916 | 0.1899 | Ave | | 0.1985 | | | | 8.4 | | 15.0 | | | |
| n-Propylbenzene | 0.8740<br>0.9946 | 0.7088<br>1.0315 | 0.7289<br>1.0469 | 0.8995<br>1.0774 | 0.9345 | Ave | | 0.9218 | | | | 14.0 | | 15.0 | | | |
| 2-Chlorotoluene | 0.7603<br>0.8579 | 0.7609<br>0.8909 | 0.6335<br>0.8991 | 0.8522<br>0.9057 | 0.8363 | Ave | | 0.8219 | | | | 11.0 | | 15.0 | | | |
| 1,3,5-Trimethylbenzene | 2.2277<br>3.2457 | 2.2249<br>3.5247 | 2.3065<br>3.5074 | 2.9812<br>3.4944 | 2.9685 | Lin1 | -1.262 | 3.4869 | | | | | | | 0.9990 | | 0.9900 |
| 4-Chlorotoluene | 0.7886<br>0.8309 | 0.8277<br>0.8510 | 0.7026<br>0.8628 | 0.8540<br>0.8796 | 0.7974 | Ave | | 0.8216 | | | | 6.5 | | 15.0 | | | |
| tert-Butylbenzene | 2.1197<br>3.0590 | 2.2892<br>3.3538 | 2.0242<br>3.3334 | 2.8238<br>3.2899 | 2.7703 | Lin1 | -1.182 | 3.2949 | | | | | | | 0.9990 | | 0.9900 |
| 1,2,4-Trimethylbenzene | 2.4758<br>3.1940 | 2.4794<br>3.3674 | 2.4631<br>3.3866 | 2.8950<br>3.3975 | 2.9627 | Ave | | 2.9579 | | | | 14.0 | | 15.0 | | | |
| sec-Butylbenzene | 2.7988<br>4.1810 | 2.9287<br>4.6051 | 2.9342<br>4.6116 | 3.8853<br>4.4955 | 3.8633 | Lin1 | -1.649 | 4.5231 | | | | | | | 0.9990 | | 0.9900 |
| 1,3-Dichlorobenzene | 1.9083<br>1.6742 | 1.7948<br>1.6775 | 1.6025<br>1.6811 | 1.6570<br>1.6846 | 1.6254 | Ave | | 1.7006 | | | | 5.5 | | 15.0 | | | |
| p-Isopropyltoluene | 2.1840<br>3.5562 | 2.4570<br>3.8831 | 2.3821<br>3.8908 | 3.3686<br>3.8284 | 3.2993 | Lin1 | -1.467 | 3.8389 | | | | | | | 0.9990 | | 0.9900 |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13070-1 Analy Batch No.: 49285

SDG No.:

Instrument ID: A3UX14 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 06/28/2012 14:23 Calibration End Date: 06/28/2012 17:16 Calibration ID: 9778

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 1,4-Dichlorobenzene | 2.0459<br>1.6478 | 1.9037<br>1.6754 | 1.6511<br>1.6907 | 1.7025<br>1.7054 | 1.6265 | Ave | | 1.7388 | | | | 8.1 | | 15.0 | | | |
| n-Butylbenzene | 2.2313<br>2.8773 | 2.3778<br>3.1856 | 2.2281<br>3.2040 | 2.6816<br>3.2174 | 2.7026 | Lin1 | -1.025 | 3.1874 | | | | | | | 0.9990 | | 0.9900 |
| 1,2-Dichlorobenzene | 1.6895<br>1.5644 | 1.5822<br>1.6399 | 1.5295<br>1.6072 | 1.5841<br>1.5744 | 1.4908 | Ave | | 1.5847 | | | | 3.7 | | 15.0 | | | |
| 1,2-Dibromo-3-Chloropropane | 0.0782<br>0.0951 | 0.1022<br>0.1060 | 0.0881<br>0.1107 | 0.0792<br>0.1085 | 0.0824 | Ave | | 0.0945 | | | | 14.0 | | 15.0 | | | |
| 1,3,5-Trichlorobenzene | 1.3213<br>1.3049 | 1.3266<br>1.4050 | 1.2004<br>1.3806 | 1.2851<br>1.3081 | 1.2228 | Ave | | 1.3061 | | | | 5.0 | | 15.0 | | | |
| 1,2,4-Trichlorobenzene | 1.1938<br>1.0788 | 1.1198<br>1.1711 | 1.1220<br>1.1703 | 1.0888<br>1.0767 | 1.0063 | Ave | | 1.1142 | | | | 5.3 | | 15.0 | | | |
| Hexachlorobutadiene | 0.4995<br>0.6176 | 0.4996<br>0.6576 | 0.5138<br>0.6404 | 0.5767<br>0.5963 | 0.5731 | Ave | | 0.5750 | | | | 10.0 | | 15.0 | | | |
| Naphthalene | 2.4114<br>2.1437 | 2.1487<br>2.1952 | 1.8498<br>2.2636 | 1.9130<br>2.0549 | 1.8136 | Ave | | 2.0882 | | | | 9.5 | | 15.0 | | | |
| 1,2,3-Trichlorobenzene | 0.9793<br>0.9889 | 1.0203<br>0.9961 | 0.9388<br>1.0044 | 0.9367<br>0.9116 | 0.9084 | Ave | | 0.9649 | | | | 4.3 | | 15.0 | | | |
| Dibromofluoromethane (Surr) | 0.4146<br>0.2685 | 0.3272<br>0.2566 | 0.2722<br>0.2725 | 0.2686<br>0.2630 | 0.2575 | Lin1 | 0.0581 | 0.2639 | | | | | | | 0.9990 | | 0.9900 |
| 1,2-Dichloroethane-d4 (Surr) | 0.6737<br>0.3243 | 0.4048<br>0.2962 | 0.3949<br>0.3206 | 0.3387<br>0.3149 | 0.3434 | Lin1 | 0.1529 | 0.3131 | | | | | | | 0.9990 | | 0.9900 |
| Toluene-d8 (Surr) | 2.4495<br>1.4659 | 1.7725<br>1.4095 | 1.5821<br>1.4407 | 1.4769<br>1.4265 | 1.5133 | Lin1 | 0.4390 | 1.4257 | | | | | | | 1.0000 | | 0.9900 |
| 4-Bromofluorobenzene (Surr) | 1.9686<br>0.9571 | 1.4836<br>0.8698 | 1.1463<br>0.9312 | 1.0032<br>0.9915 | 0.9914 | Lin1 | 0.4582 | 0.9514 | | | | | | | 0.9980 | | 0.9900 |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-13070-1  Analy Batch No.: 49285

SDG No.:

Instrument ID: A3UX14  GC Column: DB-624  ID: 0.18(mm)  Heated Purge: (Y/N) Y

Calibration Start Date: 06/28/2012 17:38  Calibration End Date: 06/28/2012 20:31  Calibration ID: 9780

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | IC 240-49285/20 | 146460.D |
| Level 2 | IC 240-49285/19 | 146459.D |
| Level 3 | IC 240-49285/18 | 146458.D |
| Level 4 | IC 240-49285/17 | 146457.D |
| Level 5 | IC 240-49285/16 | 146456.D |
| Level 6 | IC 240-49285/15 | 146455.D |
| Level 7 | IC 240-49285/14 | 146454.D |
| Level 8 | IC 240-49285/13 | 146453.D |
| Level 9 | IC 240-49285/12 | 146452.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1 LVL 6 | LVL 2 LVL 7 | LVL 3 LVL 8 | LVL 4 LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Dichlorofluoromethane | 0.5102 0.4674 | 0.4438 0.4715 | 0.4005 0.4684 | 0.4625 0.4569 | 0.4739 | Ave | | 0.4617 | | | | 6.3 | | 15.0 | | | |
| Ethyl ether | +++++ 0.2842 | 0.3671 0.2974 | 0.3170 0.3221 | 0.2920 0.2997 | 0.3225 | Ave | | 0.3128 | | | | 8.4 | | 15.0 | | | |
| 3-Chloro-1-propene | +++++ 0.1294 | +++++ 0.1381 | +++++ 0.1490 | 0.1095 0.1525 | 0.1199 | Ave | | 0.1331 | | | | 13.0 | | 15.0 | | | |
| 2-Chloro-1,3-butadiene | 0.5984 0.7006 | 0.5499 0.7384 | 0.5296 0.7764 | 0.6251 0.7794 | 0.6850 | Ave | | 0.6647 | | | | 14.0 | | 15.0 | | | |
| Diisopropyl ether | 0.2265 0.2487 | 0.2119 0.2508 | 0.2244 0.2526 | 0.2311 0.2457 | 0.2450 | Ave | | 0.2374 | | | | 6.0 | | 15.0 | | | |
| Ethyl-t-butyl ether (ETBE) | 0.9925 1.0696 | 0.8658 1.1070 | 0.9836 1.1594 | 0.9645 1.1988 | 1.0408 | Ave | | 1.0424 | | | | 10.0 | | 15.0 | | | |
| Propionitrile | +++++ 0.0430 | 0.0426 0.0427 | 0.0484 0.0445 | 0.0386 0.0473 | 0.0387 | Ave | | 0.0432 | | | | 8.2 | | 15.0 | | | |
| Ethyl acetate | 0.3774 0.2753 | 0.2710 0.2803 | 0.2830 0.2988 | 0.2797 0.3226 | 0.2554 | Ave | | 0.2937 | | | | 12.0 | | 15.0 | | | |
| Methacrylonitrile | 0.2344 0.1874 | 0.2599 0.1910 | 0.1896 0.2020 | 0.1789 0.2167 | 0.1775 | Ave | | 0.2042 | | | | 14.0 | | 15.0 | | | |
| Isobutyl alcohol | 0.0110 0.0100 | 0.0097 0.0104 | 0.0106 0.0112 | 0.0103 0.0122 | 0.0086 | Ave | | 0.0104 | | | | 9.7 | | 15.0 | | | |
| Tert-amyl-methyl ether (TAME) | 0.5163 0.6218 | 0.5181 0.6529 | 0.5540 0.7006 | 0.5513 0.7204 | 0.6082 | Ave | | 0.6048 | | | | 13.0 | | 15.0 | | | |
| n-Heptane | 0.1006 0.0806 | 0.0842 0.0836 | 0.0617 0.0856 | 0.0784 0.0844 | 0.0831 | Ave | | 0.0825 | | | | 12.0 | | 15.0 | | | |
| n-Butanol | 0.0175 0.0116 | 0.0146 0.0116 | 0.0152 0.0137 | 0.0106 0.0146 | 0.0102 | Qua | -0.153 | 0.0121 | 0 | | | | | | 0.9990 | | 0.9900 |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13070-1 Analy Batch No.: 49285

SDG No.:

Instrument ID: A3UX14 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 06/28/2012 17:38 Calibration End Date: 06/28/2012 20:31 Calibration ID: 9780

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Methyl methacrylate | 0.2154<br>0.2155 | 0.2130<br>0.2265 | 0.2008<br>0.2482 | 0.1985<br>0.2681 | 0.2004 | Ave | | 0.2207 | | | | 11.0 | | 15.0 | | | |
| 2-Nitropropane | 0.0550<br>0.0364 | 0.0423<br>0.0386 | 0.0426<br>0.0467 | 0.0299<br>0.0568 | 0.0303 | Qua | -0.037 | 0.0354 | 0.0001 | | | | | | 1.0000 | | 0.9900 |
| Cyclohexanone | 0.0419<br>0.0450 | 0.0394<br>0.0507 | 0.0305<br>0.0510 | 0.0398<br>0.0524 | 0.0383 | Lin1 | -0.184 | 0.0511 | | | | | | | 0.9970 | | 0.9900 |
| 1,2,3-Trimethylbenzene | 2.7339<br>3.0640 | 2.6231<br>3.2067 | 2.4748<br>3.3624 | 2.6179<br>3.3121 | 2.9593 | Ave | | 2.9282 | | | | 11.0 | | 15.0 | | | |
| 2-Methylnaphthalene | 1.1438<br>1.2610 | 1.0025<br>1.3895 | 0.9247<br>1.4740 | 0.9362<br>1.4193 | 1.0819 | Lin1 | -1.082 | 1.4150 | | | | | | | 0.9960 | | 0.9900 |
| n-Butyl acetate | +++++<br>0.5234 | +++++<br>0.5563 | 0.6449<br>0.6018 | 0.4986<br>0.6477 | 0.4871 | Lin1 | -0.846 | 0.6192 | | | | | | | 0.9950 | | 0.9900 |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: ICV 240-49285/21  Calibration Date: 06/28/2012 20:52

Instrument ID: A3UX14  Calib Start Date: 06/28/2012 14:23

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 06/28/2012 17:16

Lab File ID: 146461.D  Conc. Units: ug/L  Heated Purge: (Y/N) Y

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | Ave | 0.3178 | 0.2973 | | 46.8 | 50.0 | -6.5 | 50.0 |
| Chloromethane | Ave | 0.6372 | 0.6533 | 0.1000 | 51.3 | 50.0 | 2.5 | 50.0 |
| Vinyl chloride | Ave | 0.3967 | 0.4058 | | 51.1 | 50.0 | 2.3 | 20.0 |
| Bromomethane | Lin1 | | 0.1284 | | 48.5 | 50.0 | -3.0 | 50.0 |
| Chloroethane | Ave | 0.1854 | 0.1844 | | 49.7 | 50.0 | -0.5 | 50.0 |
| Trichlorofluoromethane | Lin1 | | 0.3857 | | 48.8 | 50.0 | -2.4 | 50.0 |
| 1,1-Dichloroethene | Ave | 0.2352 | 0.2707 | | 57.6 | 50.0 | 15.1 | 20.0 |
| 1,1,2-Trichloro-1,2,2-trichf luoroethane | Ave | 0.2257 | 0.2683 | | 59.4 | 50.0 | 18.9 | 50.0 |
| Acetone | Lin1 | | 0.0942 | | 99.2 | 100 | -0.8 | 50.0 |
| Iodomethane | Ave | 0.4148 | 0.4611 | | 55.6 | 50.0 | 11.2 | 50.0 |
| Carbon disulfide | Lin1 | | 0.6017 | | 43.1 | 50.0 | -13.8 | 50.0 |
| Methyl acetate | Lin1 | | 0.3003 | | 57.5 | 50.0 | 15.0 | 50.0 |
| Methylene Chloride | Lin1 | | 0.3122 | | 51.9 | 50.0 | 3.8 | 50.0 |
| tert-Butyl alcohol | Ave | 0.0231 | 0.0209 | | 907 | 1000 | -9.3 | 50.0 |
| trans-1,2-Dichloroethene | Ave | 0.2815 | 0.3034 | | 53.9 | 50.0 | 7.8 | 50.0 |
| Methyl tert-butyl ether | Ave | 0.6624 | 0.6990 | | 52.8 | 50.0 | 5.5 | 50.0 |
| Hexane | Lin1 | | 0.0857 | | 53.0 | 50.0 | 6.0 | 20.0 |
| 1,1-Dichloroethane | Ave | 0.6190 | 0.6790 | 0.1000 | 54.9 | 50.0 | 9.7 | 50.0 |
| Vinyl acetate | Ave | 0.0298 | 0.0328 | | 55.2 | 50.0 | 10.3 | 50.0 |
| 2,2-Dichloropropane | Lin1 | | 0.2584 | | 47.5 | 50.0 | -5.0 | 50.0 |
| cis-1,2-Dichloroethene | Ave | 0.2952 | 0.3136 | | 53.1 | 50.0 | 6.2 | 50.0 |
| 2-Butanone | Lin1 | | 0.1325 | | 98.8 | 100 | -1.2 | 50.0 |
| Bromochloromethane | Ave | 0.1376 | 0.1412 | | 51.3 | 50.0 | 2.6 | 50.0 |
| Tetrahydrofuran | Lin1 | | 0.0941 | | 49.4 | 50.0 | -1.2 | 50.0 |
| Chloroform | Ave | 0.4764 | 0.5038 | | 52.9 | 50.0 | 5.7 | 20.0 |
| 1,1,1-Trichloroethane | Lin1 | | 0.4315 | | 49.2 | 50.0 | -1.6 | 50.0 |
| Cyclohexane | Lin1 | | 0.8555 | | 48.5 | 50.0 | -3.0 | 50.0 |
| 1,1-Dichloropropene | Ave | 0.3913 | 0.4242 | | 54.2 | 50.0 | 8.4 | 50.0 |
| Carbon tetrachloride | Lin1 | | 0.4185 | | 49.3 | 50.0 | -1.4 | 50.0 |
| Benzene | Ave | 1.056 | 1.143 | | 54.1 | 50.0 | 8.3 | 50.0 |
| 1,2-Dichloroethane | Ave | 0.4187 | 0.4524 | | 54.0 | 50.0 | 8.1 | 50.0 |
| Trichloroethene | Ave | 0.3002 | 0.3235 | | 53.9 | 50.0 | 7.8 | 50.0 |
| Methylcyclohexane | Lin1 | | 0.5410 | | 47.4 | 50.0 | -5.2 | 50.0 |
| 1,2-Dichloropropane | Ave | 0.2986 | 0.3321 | | 55.6 | 50.0 | 11.2 | 20.0 |
| Dibromomethane | Ave | 0.1215 | 0.1379 | | 56.7 | 50.0 | 13.5 | 50.0 |
| Bromodichloromethane | Lin1 | | 0.3052 | | 48.6 | 50.0 | -2.8 | 50.0 |
| 2-Chloroethyl vinyl ether | Lin1 | | 0.1013 | | 49.0 | 50.0 | -2.0 | 50.0 |
| cis-1,3-Dichloropropene | Lin1 | | 0.3447 | | 47.0 | 50.0 | -6.0 | 50.0 |
| 4-Methyl-2-pentanone | Ave | 0.3910 | 0.4162 | | 106 | 100 | 6.4 | 50.0 |
| Toluene | Ave | 1.755 | 1.718 | | 48.9 | 50.0 | -2.1 | 20.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: ICV 240-49285/21  Calibration Date: 06/28/2012 20:52

Instrument ID: A3UX14  Calib Start Date: 06/28/2012 14:23

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 06/28/2012 17:16

Lab File ID: 146461.D  Conc. Units: ug/L  Heated Purge: (Y/N) Y

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | Lin1 | | 0.4189 | | 47.7 | 50.0 | -4.6 | 50.0 |
| 1,1,2-Trichloroethane | Ave | 0.2408 | 0.2634 | | 54.7 | 50.0 | 9.4 | 50.0 |
| Tetrachloroethene | Ave | 0.3481 | 0.3518 | | 50.5 | 50.0 | 1.1 | 50.0 |
| 1,3-Dichloropropane | Ave | 0.4369 | 0.4587 | | 52.5 | 50.0 | 5.0 | 50.0 |
| 2-Hexanone | Ave | 0.2249 | 0.2251 | | 100 | 100 | 0.0 | 50.0 |
| Dibromochloromethane | Lin1 | | 0.2977 | | 47.4 | 50.0 | -5.2 | 50.0 |
| 1,2-Dibromoethane | Ave | 0.2515 | 0.2504 | | 49.8 | 50.0 | -0.4 | 50.0 |
| Chlorobenzene | Ave | 1.039 | 1.047 | 0.3000 | 50.4 | 50.0 | 0.8 | 50.0 |
| 1,1,1,2-Tetrachloroethane | Ave | 0.3843 | 0.4118 | | 53.6 | 50.0 | 7.2 | 50.0 |
| Ethylbenzene | Ave | 0.5649 | 0.5847 | | 51.8 | 50.0 | 3.5 | 20.0 |
| m-Xylene & p-Xylene | Ave | 0.6980 | 0.7157 | | 103 | 100 | 2.5 | 50.0 |
| o-Xylene | Ave | 0.7003 | 0.7295 | | 52.1 | 50.0 | 4.2 | 50.0 |
| Styrene | Ave | 1.038 | 1.077 | | 51.9 | 50.0 | 3.8 | 50.0 |
| Bromoform | Lin1 | | 0.1337 | 0.1000 | 44.2 | 50.0 | -11.6 | 50.0 |
| Isopropylbenzene | Ave | 1.853 | 2.046 | | 55.2 | 50.0 | 10.4 | 50.0 |
| 1,1,2,2-Tetrachloroethane | Ave | 0.5415 | 0.5606 | 0.3000 | 51.8 | 50.0 | 3.5 | 50.0 |
| Bromobenzene | Ave | 0.7752 | 0.8282 | | 53.4 | 50.0 | 6.8 | 50.0 |
| 1,2,3-Trichloropropane | Ave | 0.1985 | 0.1889 | | 47.6 | 50.0 | -4.8 | 50.0 |
| trans-1,4-Dichloro-2-butene | Ave | 0.2278 | 0.2206 | | 96.8 | 100 | -3.2 | 50.0 |
| n-Propylbenzene | Ave | 0.9218 | 1.043 | | 56.6 | 50.0 | 13.2 | 50.0 |
| 2-Chlorotoluene | Ave | 0.8219 | 0.8732 | | 53.1 | 50.0 | 6.2 | 50.0 |
| 1,3,5-Trimethylbenzene | Lin1 | | 3.330 | | 48.1 | 50.0 | -3.8 | 50.0 |
| 4-Chlorotoluene | Ave | 0.8216 | 0.8362 | | 50.9 | 50.0 | 1.8 | 50.0 |
| tert-Butylbenzene | Lin1 | | 3.181 | | 48.6 | 50.0 | -2.8 | 50.0 |
| 1,2,4-Trimethylbenzene | Ave | 2.958 | 3.207 | | 54.2 | 50.0 | 8.4 | 50.0 |
| sec-Butylbenzene | Lin1 | | 4.285 | | 47.7 | 50.0 | -4.6 | 50.0 |
| 1,3-Dichlorobenzene | Ave | 1.701 | 1.591 | | 46.8 | 50.0 | -6.5 | 50.0 |
| p-Isopropyltoluene | Lin1 | | 3.704 | | 48.6 | 50.0 | -2.8 | 50.0 |
| 1,4-Dichlorobenzene | Ave | 1.739 | 1.569 | | 45.1 | 50.0 | -9.8 | 50.0 |
| n-Butylbenzene | Lin1 | | 2.825 | | 44.6 | 50.0 | -10.8 | 50.0 |
| 1,2-Dichlorobenzene | Ave | 1.585 | 1.511 | | 47.7 | 50.0 | -4.6 | 50.0 |
| 1,2-Dibromo-3-Chloropropane | Ave | 0.0945 | 0.0924 | | 48.9 | 50.0 | -2.3 | 50.0 |
| 1,2,4-Trichlorobenzene | Ave | 1.114 | 0.8851 | | 39.7 | 50.0 | -20.6 | 50.0 |
| Hexachlorobutadiene | Ave | 0.5750 | 0.5282 | | 45.9 | 50.0 | -8.1 | 50.0 |
| Naphthalene | Ave | 2.088 | 1.942 | | 46.5 | 50.0 | -7.0 | 50.0 |
| 1,2,3-Trichlorobenzene | Ave | 0.9649 | 0.8450 | | 43.8 | 50.0 | -12.4 | 50.0 |
| Dibromofluoromethane (Surr) | Lin1 | | 0.2495 | | 47.0 | 50.0 | -6.0 | 50.0 |
| 1,2-Dichloroethane-d4 (Surr) | Lin1 | | 0.3026 | | 47.8 | 50.0 | -4.4 | 50.0 |
| Toluene-d8 (Surr) | Lin1 | | 1.409 | | 49.1 | 50.0 | -1.8 | 50.0 |
| 4-Bromofluorobenzene (Surr) | Lin1 | | 0.8706 | | 45.3 | 50.0 | -9.4 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: ICV 240-49285/21  Calibration Date: 06/28/2012 20:52

Instrument ID: A3UX14  Calib Start Date: 06/28/2012 17:38

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 06/28/2012 20:31

Lab File ID: 146461.D  Conc. Units: ug/L  Heated Purge: (Y/N) Y

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Ethyl ether | Ave | 0.3128 | 0.3099 | | 49.5 | 50.0 | -0.9 | 50.0 |
| Diisopropyl ether | Ave | 0.2374 | 0.2512 | | 52.9 | 50.0 | 5.8 | 50.0 |
| Isobutyl alcohol | Ave | 0.0104 | 0.0102 | | 2440 | 2500 | -2.3 | 50.0 |
| Cyclohexanone | Lin1 | | 0.0132 | | 262 | 1000 | -73.8* | 50.0 |
| 1,2,3-Trimethylbenzene | Ave | 2.928 | 3.293 | | 56.2 | 50.0 | 12.5 | 50.0 |

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab File ID: BFB14185.D BFB Injection Date: 07/13/2012

Instrument ID: A3UX14 BFB Injection Time: 12:08

Analysis Batch No.: 50749

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 50 | 15.0 - 40.0 % of mass 95 | 28.3 | |
| 75 | 30.0 - 60.0 % of mass 95 | 49.2 | |
| 95 | Base Peak, 100% relative abundance | 100.0 | |
| 96 | 5.0 - 9.0 % of mass 95 | 6.4 | |
| 173 | Less than 2.0 % of mass 174 | 0.0 | (0.0)1 |
| 174 | 50.0 - 120.00 % of mass 95 | 79.3 | |
| 175 | 5.0 - 9.0 % of mass 174 | 6.3 | (8.0)1 |
| 176 | 95.0 - 101.0 % of mass 174 | 76.8 | (96.9)1 |
| 177 | 5.0 - 9.0 % of mass 176 | 5.2 | (6.8)2 |

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | CCVIS 240-50749/3 | 146686.D | 07/13/2012 | 12:50 |
| | CCV 240-50749/4 | 146687.D | 07/13/2012 | 13:12 |
| | LCS 240-50627/2-A | 146690.D | 07/13/2012 | 14:17 |
| | MB 240-50627/1-A | 146691.D | 07/13/2012 | 14:38 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCVIS 240-50749/3  Calibration Date: 07/13/2012 12:50

Instrument ID: A3UX14  Calib Start Date: 06/28/2012 14:23

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 06/28/2012 17:16

Lab File ID: 146686.D  Conc. Units: ug/L  Heated Purge: (Y/N) Y

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | Ave | 0.3178 | 0.2875 | | 45.2 | 50.0 | -9.5 | 50.0 |
| Chloromethane | Ave | 0.6372 | 0.6330 | 0.1000 | 49.7 | 50.0 | -0.7 | 50.0 |
| Vinyl chloride | Ave | 0.3967 | 0.4158 | | 52.4 | 50.0 | 4.8 | 20.0 |
| Bromomethane | Lin1 | | 0.1381 | | 52.2 | 50.0 | 4.4 | 50.0 |
| Chloroethane | Ave | 0.1854 | 0.1852 | | 49.9 | 50.0 | -0.1 | 50.0 |
| Trichlorofluoromethane | Lin1 | | 0.3917 | | 49.6 | 50.0 | -0.8 | 50.0 |
| Acrolein | Ave | 0.0364 | 0.0324 | | 444 | 500 | -11.1 | 50.0 |
| 1,1-Dichloroethene | Ave | 0.2352 | 0.2501 | | 53.2 | 50.0 | 6.3 | 20.0 |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | Ave | 0.2257 | 0.2276 | | 50.4 | 50.0 | 0.8 | 50.0 |
| Acetone | Lin1 | | 0.1121 | | 120 | 100 | 19.9 | 50.0 |
| Iodomethane | Ave | 0.4148 | 0.3872 | | 46.7 | 50.0 | -6.6 | 50.0 |
| Carbon disulfide | Lin1 | | 0.5563 | | 40.1 | 50.0 | -19.8 | 50.0 |
| Acetonitrile | Lin1 | | 0.0387 | | 560 | 500 | 12.1 | 50.0 |
| Methyl acetate | Lin1 | | 0.3029 | | 117 | 100 | 16.7 | 50.0 |
| Methylene Chloride | Lin1 | | 0.2718 | | 44.3 | 50.0 | -11.4 | 50.0 |
| tert-Butyl alcohol | Ave | 0.0231 | 0.0212 | | 918 | 1000 | -8.3 | 50.0 |
| Acrylonitrile | Ave | 0.1161 | 0.1277 | | 110 | 100 | 10.0 | 50.0 |
| trans-1,2-Dichloroethene | Ave | 0.2815 | 0.2855 | | 50.7 | 50.0 | 1.4 | 50.0 |
| Methyl tert-butyl ether | Ave | 0.6624 | 0.6900 | | 52.1 | 50.0 | 4.2 | 50.0 |
| Hexane | Lin1 | | 0.0775 | | 47.9 | 50.0 | -4.2 | 20.0 |
| 1,1-Dichloroethane | Ave | 0.6190 | 0.6471 | 0.1000 | 52.3 | 50.0 | 4.5 | 50.0 |
| Vinyl acetate | Ave | 0.0298 | 0.0262 | | 44.0 | 50.0 | -12.0 | 50.0 |
| 2,2-Dichloropropane | Lin1 | | 0.2224 | | 40.9 | 50.0 | -18.2 | 50.0 |
| cis-1,2-Dichloroethene | Ave | 0.2952 | 0.2885 | | 48.9 | 50.0 | -2.3 | 50.0 |
| 2-Butanone | Lin1 | | 0.1574 | | 118 | 100 | 17.8 | 50.0 |
| Bromochloromethane | Ave | 0.1376 | 0.1313 | | 47.7 | 50.0 | -4.6 | 50.0 |
| Tetrahydrofuran | Lin1 | | 0.0943 | | 49.5 | 50.0 | -1.0 | 50.0 |
| Chloroform | Ave | 0.4764 | 0.5131 | | 53.9 | 50.0 | 7.7 | 20.0 |
| 1,1,1-Trichloroethane | Lin1 | | 0.4221 | | 48.2 | 50.0 | -3.6 | 50.0 |
| Cyclohexane | Lin1 | | 0.8505 | | 48.3 | 50.0 | -3.4 | 50.0 |
| 1,1-Dichloropropene | Ave | 0.3913 | 0.4254 | | 54.4 | 50.0 | 8.7 | 50.0 |
| Carbon tetrachloride | Lin1 | | 0.4154 | | 48.9 | 50.0 | -2.2 | 50.0 |
| Benzene | Ave | 1.056 | 1.090 | | 51.6 | 50.0 | 3.2 | 50.0 |
| 1,2-Dichloroethane | Ave | 0.4187 | 0.4773 | | 57.0 | 50.0 | 14.0 | 50.0 |
| Trichloroethene | Ave | 0.3002 | 0.3011 | | 50.2 | 50.0 | 0.3 | 50.0 |
| Methylcyclohexane | Lin1 | | 0.5367 | | 47.0 | 50.0 | -6.0 | 50.0 |
| 1,2-Dichloropropane | Ave | 0.2986 | 0.3265 | | 54.7 | 50.0 | 9.3 | 20.0 |
| Dibromomethane | Ave | 0.1215 | 0.1371 | | 56.4 | 50.0 | 12.8 | 50.0 |
| 1,4-Dioxane | Ave | 0.0019 | 0.0017 | | 2270 | 2500 | -9.1 | 50.0 |
| Bromodichloromethane | Lin1 | | 0.3091 | | 49.2 | 50.0 | -1.6 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCVIS 240-50749/3  Calibration Date: 07/13/2012 12:50

Instrument ID: A3UX14  Calib Start Date: 06/28/2012 14:23

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 06/28/2012 17:16

Lab File ID: 146686.D  Conc. Units: ug/L  Heated Purge: (Y/N) Y

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 2-Chloroethyl vinyl ether | Lin1 | | 0.1084 | | 104 | 100 | 3.9 | 50.0 |
| cis-1,3-Dichloropropene | Lin1 | | 0.3603 | | 49.1 | 50.0 | -1.8 | 50.0 |
| 4-Methyl-2-pentanone | Ave | 0.3910 | 0.4728 | | 121 | 100 | 20.9 | 50.0 |
| Toluene | Ave | 1.755 | 1.842 | | 52.5 | 50.0 | 4.9 | 20.0 |
| trans-1,3-Dichloropropene | Lin1 | | 0.4715 | | 53.6 | 50.0 | 7.2 | 50.0 |
| Ethyl methacrylate | Ave | 0.2878 | 0.3448 | | 59.9 | 50.0 | 19.8 | 50.0 |
| 1,1,2-Trichloroethane | Ave | 0.2408 | 0.2747 | | 57.0 | 50.0 | 14.1 | 50.0 |
| Tetrachloroethene | Ave | 0.3481 | 0.3913 | | 56.2 | 50.0 | 12.4 | 50.0 |
| 1,3-Dichloropropane | Ave | 0.4369 | 0.4904 | | 56.1 | 50.0 | 12.2 | 50.0 |
| 2-Hexanone | Ave | 0.2249 | 0.2766 | | 123 | 100 | 22.9 | 50.0 |
| Dibromochloromethane | Lin1 | | 0.3037 | | 48.4 | 50.0 | -3.2 | 50.0 |
| 1,2-Dibromoethane | Ave | 0.2515 | 0.2631 | | 52.3 | 50.0 | 4.6 | 50.0 |
| Chlorobenzene | Ave | 1.039 | 1.114 | 0.3000 | 53.6 | 50.0 | 7.2 | 50.0 |
| 1,1,1,2-Tetrachloroethane | Ave | 0.3843 | 0.3969 | | 51.6 | 50.0 | 3.3 | 50.0 |
| Ethylbenzene | Ave | 0.5649 | 0.5911 | | 52.3 | 50.0 | 4.6 | 20.0 |
| m-Xylene & p-Xylene | Ave | 0.6980 | 0.7326 | | 105 | 100 | 5.0 | 50.0 |
| o-Xylene | Ave | 0.7003 | 0.7095 | | 50.7 | 50.0 | 1.3 | 50.0 |
| Styrene | Ave | 1.038 | 1.071 | | 51.6 | 50.0 | 3.2 | 50.0 |
| Bromoform | Lin1 | | 0.1432 | 0.1000 | 47.2 | 50.0 | -5.6 | 50.0 |
| Isopropylbenzene | Ave | 1.853 | 2.018 | | 54.4 | 50.0 | 8.9 | 50.0 |
| 1,1,2,2-Tetrachloroethane | Ave | 0.5415 | 0.6012 | 0.3000 | 55.5 | 50.0 | 11.0 | 50.0 |
| Bromobenzene | Ave | 0.7752 | 0.8094 | | 52.2 | 50.0 | 4.4 | 50.0 |
| 1,2,3-Trichloropropane | Ave | 0.1985 | 0.2010 | | 50.6 | 50.0 | 1.2 | 50.0 |
| trans-1,4-Dichloro-2-butene | Ave | 0.2278 | 0.2657 | | 58.3 | 50.0 | 16.6 | 50.0 |
| n-Propylbenzene | Ave | 0.9218 | 1.050 | | 57.0 | 50.0 | 13.9 | 50.0 |
| 2-Chlorotoluene | Ave | 0.8219 | 0.8704 | | 53.0 | 50.0 | 5.9 | 50.0 |
| 1,3,5-Trimethylbenzene | Lin1 | | 3.372 | | 48.7 | 50.0 | -2.6 | 50.0 |
| 4-Chlorotoluene | Ave | 0.8216 | 0.8656 | | 52.7 | 50.0 | 5.3 | 50.0 |
| tert-Butylbenzene | Lin1 | | 3.036 | | 46.4 | 50.0 | -7.2 | 50.0 |
| 1,2,4-Trimethylbenzene | Ave | 2.958 | 3.234 | | 54.7 | 50.0 | 9.3 | 50.0 |
| sec-Butylbenzene | Lin1 | | 4.155 | | 46.3 | 50.0 | -7.4 | 50.0 |
| 1,3-Dichlorobenzene | Ave | 1.701 | 1.646 | | 48.4 | 50.0 | -3.2 | 50.0 |
| p-Isopropyltoluene | Lin1 | | 3.561 | | 46.8 | 50.0 | -6.4 | 50.0 |
| 1,4-Dichlorobenzene | Ave | 1.739 | 1.636 | | 47.0 | 50.0 | -5.9 | 50.0 |
| n-Butylbenzene | Lin1 | | 3.141 | | 49.6 | 50.0 | -0.8 | 50.0 |
| 1,2-Dichlorobenzene | Ave | 1.585 | 1.515 | | 47.8 | 50.0 | -4.4 | 50.0 |
| 1,2-Dibromo-3-Chloropropane | Ave | 0.0945 | 0.0806 | | 42.7 | 50.0 | -14.7 | 50.0 |
| 1,3,5-Trichlorobenzene | Ave | 1.306 | 1.065 | | 40.8 | 50.0 | -18.5 | 50.0 |
| 1,2,4-Trichlorobenzene | Ave | 1.114 | 0.8234 | | 37.0 | 50.0 | -26.1 | 50.0 |
| Hexachlorobutadiene | Ave | 0.5750 | 0.4795 | | 41.7 | 50.0 | -16.6 | 50.0 |
| Naphthalene | Ave | 2.088 | 1.514 | | 36.2 | 50.0 | -27.5 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCVIS 240-50749/3  Calibration Date: 07/13/2012 12:50

Instrument ID: A3UX14  Calib Start Date: 06/28/2012 14:23

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 06/28/2012 17:16

Lab File ID: 146686.D  Conc. Units: ug/L  Heated Purge: (Y/N) Y

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 1,2,3-Trichlorobenzene | Ave | 0.9649 | 0.6424 | | 33.3 | 50.0 | -33.4 | 50.0 |
| Dibromofluoromethane (Surr) | Lin1 | | 0.2565 | | 48.4 | 50.0 | -3.2 | 50.0 |
| 1,2-Dichloroethane-d4 (Surr) | Lin1 | | 0.3399 | | 53.8 | 50.0 | 7.6 | 50.0 |
| Toluene-d8 (Surr) | Lin1 | | 1.508 | | 52.6 | 50.0 | 5.2 | 50.0 |
| 4-Bromofluorobenzene (Surr) | Lin1 | | 0.9636 | | 50.2 | 50.0 | 0.4 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCV 240-50749/4 Calibration Date: 07/13/2012 13:12

Instrument ID: A3UX14 Calib Start Date: 06/28/2012 14:23

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/28/2012 17:16

Lab File ID: 146687.D Conc. Units: ug/L Heated Purge: (Y/N) Y

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dibromofluoromethane (Surr) | Lin1 | | 0.2476 | | 46.7 | 50.0 | -6.6 | 50.0 |
| 1,2-Dichloroethane-d4 (Surr) | Lin1 | | 0.3249 | | 51.4 | 50.0 | 2.8 | 50.0 |
| Toluene-d8 (Surr) | Lin1 | | 1.455 | | 50.7 | 50.0 | 1.4 | 50.0 |
| 4-Bromofluorobenzene (Surr) | Lin1 | | 1.026 | | 53.4 | 50.0 | 6.8 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCV 240-50749/4  Calibration Date: 07/13/2012 13:12

Instrument ID: A3UX14  Calib Start Date: 06/28/2012 17:38

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 06/28/2012 20:31

Lab File ID: 146687.D  Conc. Units: ug/L  Heated Purge: (Y/N) Y

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorofluoromethane | Ave | 0.4617 | 0.4496 | | 48.7 | 50.0 | -2.6 | 50.0 |
| Ethyl ether | Ave | 0.3128 | 0.2810 | | 44.9 | 50.0 | -10.1 | 50.0 |
| 3-Chloro-1-propene | Ave | 0.1331 | 0.1225 | | 46.0 | 50.0 | -7.9 | 50.0 |
| 2-Chloro-1,3-butadiene | Ave | 0.6647 | 0.7134 | | 53.7 | 50.0 | 7.3 | 50.0 |
| Diisopropyl ether | Ave | 0.2374 | 0.2244 | | 236 | 250 | -5.5 | 50.0 |
| Ethyl-t-butyl ether (ETBE) | Ave | 1.042 | 1.040 | | 49.9 | 50.0 | -0.2 | 50.0 |
| Propionitrile | Ave | 0.0432 | 0.0418 | | 96.6 | 100 | -3.4 | 50.0 |
| Ethyl acetate | Ave | 0.2937 | 0.2912 | | 99.1 | 100 | -0.9 | 50.0 |
| Methacrylonitrile | Ave | 0.2042 | 0.1971 | | 48.3 | 50.0 | -3.4 | 50.0 |
| Isobutyl alcohol | Ave | 0.0104 | 0.0108 | | 1030 | 1000 | 3.5 | 50.0 |
| Tert-amyl-methyl ether (TAME) | Ave | 0.6048 | 0.6229 | | 51.5 | 50.0 | 3.0 | 50.0 |
| n-Heptane | Ave | 0.0825 | 0.0841 | | 51.0 | 50.0 | 2.0 | 50.0 |
| n-Butanol | Qua | | 0.0126 | | 1000 | 1000 | 0.4 | 50.0 |
| Methyl methacrylate | Ave | 0.2207 | 0.2447 | | 55.4 | 50.0 | 10.9 | 50.0 |
| 2-Nitropropane | Qua | | 0.0466 | | 113 | 100 | 13.1 | 50.0 |
| Cyclohexanone | Lin1 | | 0.0575 | | 566 | 500 | 13.2 | 50.0 |
| 1,2,3-Trimethylbenzene | Ave | 2.928 | 3.322 | | 56.7 | 50.0 | 13.4 | 50.0 |
| 2-Methylnaphthalene | Lin1 | | 1.045 | | 74.6 | 100 | -25.4 | 50.0 |

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab File ID: 146691.D Lab Sample ID: MB 240-50627/1-A

Matrix: Solid Heated Purge: (Y/N) Y

Instrument ID: A3UX14 Date Analyzed: 07/13/2012 14:38

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| | LCS 240-50627/2-A | 146690.D | 07/13/2012 14:17 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13070-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-50627/1-A

Matrix: Solid | Lab File ID: 146691.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5.00(g) | Date Analyzed: 07/13/2012 14:38

Soil Aliquot Vol: 100 (uL) | Dilution Factor: 1

Soil Extract Vol.: 5(mL) | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Medium

Analysis Batch No.: 50749 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 250 | U | 250 | 9.1 |
| 71-55-6 | 1,1,1-Trichloroethane | 250 | U | 250 | 21 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 250 | U | 250 | 8.9 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trichfluoroeth ane | 250 | U | 250 | 39 |
| 75-34-3 | 1,1-Dichloroethane | 250 | U | 250 | 17 |
| 75-35-4 | 1,1-Dichloroethene | 250 | U | 250 | 18 |
| 563-58-6 | 1,1-Dichloropropene | 250 | U | 250 | 10 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 250 | U | 250 | 10 |
| 96-18-4 | 1,2,3-Trichloropropane | 250 | U | 250 | 21 |
| 526-73-8 | 1,2,3-Trimethylbenzene | 250 | U | 250 | 0.17 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 7.64 | J | 250 | 7.3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 250 | U | 250 | 5.0 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 500 | U | 500 | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | 250 | U | 250 | 8.6 |
| 107-06-2 | 1,2-Dichloroethane | 250 | U | 250 | 10 |
| 78-87-5 | 1,2-Dichloropropane | 250 | U | 250 | 8.2 |
| 541-73-1 | 1,3-Dichlorobenzene | 5.18 | J | 250 | 4.8 |
| 142-28-9 | 1,3-Dichloropropane | 250 | U | 250 | 22 |
| 106-46-7 | 1,4-Dichlorobenzene | 250 | U | 250 | 8.0 |
| 594-20-7 | 2,2-Dichloropropane | 250 | U | 250 | 23 |
| 110-75-8 | 2-Chloroethyl vinyl ether | 1000 | U | 1000 | 43 |
| 95-49-8 | 2-Chlorotoluene | 250 | U | 250 | 9.0 |
| 591-78-6 | 2-Hexanone | 1000 | U | 1000 | 20 |
| 106-43-4 | 4-Chlorotoluene | 250 | U | 250 | 9.9 |
| 67-64-1 | Acetone | 1000 | U | 1000 | 170 |
| 71-43-2 | Benzene | 250 | U | 250 | 12 |
| 108-86-1 | Bromobenzene | 250 | U | 250 | 13 |
| 74-97-5 | Bromochloromethane | 250 | U | 250 | 13 |
| 75-25-2 | Bromoform | 250 | U | 250 | 19 |
| 74-83-9 | Bromomethane | 250 | U | 250 | 29 |
| 75-15-0 | Carbon disulfide | 250 | U | 250 | 12 |
| 56-23-5 | Carbon tetrachloride | 250 | U | 250 | 6.4 |
| 108-90-7 | Chlorobenzene | 250 | U | 250 | 6.4 |
| 75-00-3 | Chloroethane | 250 | U | 250 | 61 |
| 67-66-3 | Chloroform | 250 | U | 250 | 8.8 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Client Sample ID:  Lab Sample ID: MB 240-50627/1-A

Matrix: Solid  Lab File ID: 146691.D

Analysis Method: 8260B  Date Collected:

Sample wt/vol: 5.00(g)  Date Analyzed: 07/13/2012 14:38

Soil Aliquot Vol: 100 (uL)  Dilution Factor: 1

Soil Extract Vol.: 5(mL)  GC Column: DB-624  ID: 0.18(mm)

% Moisture:  Level: (low/med) Medium

Analysis Batch No.: 50749  Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | 250 | U | 250 | 14 |
| 156-59-2 | cis-1,2-Dichloroethene | 250 | U | 250 | 6.9 |
| 75-27-4 | Bromodichloromethane | 250 | U | 250 | 9.9 |
| 10061-01-5 | cis-1,3-Dichloropropene | 250 | U | 250 | 7.9 |
| 106-93-4 | 1,2-Dibromoethane | 250 | U | 250 | 10 |
| 74-95-3 | Dibromomethane | 250 | U | 250 | 14 |
| 75-71-8 | Dichlorodifluoromethane | 250 | U | 250 | 16 |
| 108-20-3 | Diisopropyl ether | 500 | U | 500 | 50 |
| 100-41-4 | Ethylbenzene | 250 | U | 250 | 5.4 |
| 87-68-3 | Hexachlorobutadiene | 250 | U | 250 | 14 |
| 98-82-8 | Isopropylbenzene | 250 | U | 250 | 6.5 |
| 78-93-3 | 2-Butanone | 1000 | U | 1000 | 43 |
| 108-10-1 | 4-Methyl-2-pentanone | 1000 | U | 1000 | 48 |
| 179601-23-1 | m-Xylene & p-Xylene | 7.27 | J | 500 | 6.2 |
| 1634-04-4 | Methyl tert-butyl ether | 1000 | U | 1000 | 7.1 |
| 91-20-3 | Naphthalene | 10.6 | J | 250 | 6.7 |
| 104-51-8 | n-Butylbenzene | 250 | U | 250 | 8.0 |
| 75-09-2 | Methylene Chloride | 250 | U | 250 | 77 |
| 103-65-1 | n-Propylbenzene | 250 | U | 250 | 14 |
| 95-47-6 | o-Xylene | 250 | U | 250 | 8.5 |
| 99-87-6 | p-Isopropyltoluene | 250 | U | 250 | 4.8 |
| 135-98-8 | sec-Butylbenzene | 250 | U | 250 | 4.7 |
| 637-92-3 | Ethyl-t-butyl ether (ETBE) | 250 | U | 250 | 0.22 |
| 100-42-5 | Styrene | 250 | U | 250 | 5.6 |
| 994-05-8 | Tert-amyl-methyl ether (TAME) | 250 | U | 250 | 0.37 |
| 98-06-6 | tert-Butylbenzene | 250 | U | 250 | 6.5 |
| 127-18-4 | Tetrachloroethene | 250 | U | 250 | 12 |
| 108-88-3 | Toluene | 250 | U | 250 | 17 |
| 156-60-5 | trans-1,2-Dichloroethene | 250 | U | 250 | 9.2 |
| 10061-02-6 | trans-1,3-Dichloropropene | 250 | U | 250 | 20 |
| 79-01-6 | Trichloroethene | 250 | U | 250 | 9.7 |
| 75-69-4 | Trichlorofluoromethane | 250 | U | 250 | 16 |
| 75-65-0 | tert-Butyl alcohol | 10000 | U | 10000 | 240 |
| 108-05-4 | Vinyl acetate | 500 | U | 500 | 23 |
| 75-01-4 | Vinyl chloride | 250 | U | 250 | 18 |
| 124-48-1 | Dibromochloromethane | 250 | U | 250 | 12 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Client Sample ID:  Lab Sample ID: MB 240-50627/1-A

Matrix: Solid  Lab File ID: 146691.D

Analysis Method: 8260B  Date Collected:

Sample wt/vol: 5.00(g)  Date Analyzed: 07/13/2012 14:38

Soil Aliquot Vol: 100 (uL)  Dilution Factor: 1

Soil Extract Vol.: 5(mL)  GC Column: DB-624  ID: 0.18(mm)

% Moisture:  Level: (low/med) Medium

Analysis Batch No.: 50749  Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 1330-20-7 | Xylenes, Total | 500 | U | 500 | 8.1 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 117 | | 39-128 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 102 | | 26-141 |
| 2037-26-5 | Toluene-d8 (Surr) | 107 | | 33-134 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 99 | | 30-122 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton | Job No.: 240-13070-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-50627/1-A

Matrix: Solid | Lab File ID: 146691.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5.00(g) | Date Analyzed: 07/13/2012 14:38

Soil Aliquot Vol: 100 (uL) | Dilution Factor: 1

Soil Extract Vol.: 5(mL) | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Medium

Analysis Batch No.: 50749 | Units: ug/Kg

Number TICs Found: 1 | TIC Result Total: 43.5

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| | Tentatively Identified Compound | | None | |
| 91-57-6 | 2-Methylnaphthalene | 14.29 | 43.5 | J |

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab File ID: BFB14186.D BFB Injection Date: 07/16/2012

Instrument ID: A3UX14 BFB Injection Time: 11:07

Analysis Batch No.: 50900

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 50 | 15.0 - 40.0 % of mass 95 | 28.6 | |
| 75 | 30.0 - 60.0 % of mass 95 | 49.8 | |
| 95 | Base Peak, 100% relative abundance | 100.0 | |
| 96 | 5.0 - 9.0 % of mass 95 | 6.8 | |
| 173 | Less than 2.0 % of mass 174 | 0.0 | (0.0)1 |
| 174 | 50.0 - 120.00 % of mass 95 | 76.4 | |
| 175 | 5.0 - 9.0 % of mass 174 | 5.8 | (7.6)1 |
| 176 | 95.0 - 101.0 % of mass 174 | 73.9 | (96.7)1 |
| 177 | 5.0 - 9.0 % of mass 176 | 5.0 | (6.8)2 |

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | CCVIS 240-50900/3 | 146719.D | 07/16/2012 | 11:51 |
| | CCV 240-50900/4 | 146720.D | 07/16/2012 | 12:12 |
| | LCS 240-50900/5 | 146721.D | 07/16/2012 | 12:34 |
| | MB 240-50900/6 | 146722.D | 07/16/2012 | 12:56 |
| | 240-13217-A-1 MS | 146724.D | 07/16/2012 | 13:39 |
| | 240-13217-A-1 MSD | 146725.D | 07/16/2012 | 14:01 |
| MT-SB17-0-2 | 240-13070-5 | 146741.D | 07/16/2012 | 19:47 |
| MT-SB17-8-10 | 240-13070-6 | 146742.D | 07/16/2012 | 20:09 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCVIS 240-50900/3  Calibration Date: 07/16/2012 11:51

Instrument ID: A3UX14  Calib Start Date: 06/28/2012 14:23

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 06/28/2012 17:16

Lab File ID: 146719.D  Conc. Units: ug/L  Heated Purge: (Y/N) Y

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | Ave | 0.3178 | 0.2868 | | 45.1 | 50.0 | -9.8 | 50.0 |
| Chloromethane | Ave | 0.6372 | 0.6278 | 0.1000 | 49.3 | 50.0 | -1.5 | 50.0 |
| Vinyl chloride | Ave | 0.3967 | 0.4052 | | 51.1 | 50.0 | 2.1 | 20.0 |
| Bromomethane | Lin1 | | 0.1243 | | 47.0 | 50.0 | -6.0 | 50.0 |
| Chloroethane | Ave | 0.1854 | 0.1773 | | 47.8 | 50.0 | -4.3 | 50.0 |
| Trichlorofluoromethane | Lin1 | | 0.3636 | | 46.1 | 50.0 | -7.8 | 50.0 |
| Acrolein | Ave | 0.0364 | 0.0382 | | 524 | 500 | 4.8 | 50.0 |
| 1,1-Dichloroethene | Ave | 0.2352 | 0.2425 | | 51.6 | 50.0 | 3.1 | 20.0 |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | Ave | 0.2257 | 0.2165 | | 48.0 | 50.0 | -4.1 | 50.0 |
| Acetone | Lin1 | | 0.1100 | | 118 | 100 | 17.5 | 50.0 |
| Iodomethane | Ave | 0.4148 | 0.3718 | | 44.8 | 50.0 | -10.4 | 50.0 |
| Carbon disulfide | Lin1 | | 0.5347 | | 38.6 | 50.0 | -22.8 | 50.0 |
| Acetonitrile | Lin1 | | 0.0380 | | 551 | 500 | 10.1 | 50.0 |
| Methyl acetate | Lin1 | | 0.2832 | | 109 | 100 | 9.1 | 50.0 |
| Methylene Chloride | Lin1 | | 0.2608 | | 42.2 | 50.0 | -15.6 | 50.0 |
| tert-Butyl alcohol | Ave | 0.0231 | 0.0223 | | 964 | 1000 | -3.6 | 50.0 |
| Acrylonitrile | Ave | 0.1161 | 0.1268 | | 109 | 100 | 9.2 | 50.0 |
| trans-1,2-Dichloroethene | Ave | 0.2815 | 0.2753 | | 48.9 | 50.0 | -2.2 | 50.0 |
| Methyl tert-butyl ether | Ave | 0.6624 | 0.6805 | | 51.4 | 50.0 | 2.7 | 50.0 |
| Hexane | Lin1 | | 0.0777 | | 48.0 | 50.0 | -4.0 | 20.0 |
| 1,1-Dichloroethane | Ave | 0.6190 | 0.6319 | 0.1000 | 51.0 | 50.0 | 2.1 | 50.0 |
| Vinyl acetate | Ave | 0.0298 | 0.0318 | | 53.3 | 50.0 | 6.7 | 50.0 |
| 2,2-Dichloropropane | Lin1 | | 0.2239 | | 41.2 | 50.0 | -17.6 | 50.0 |
| cis-1,2-Dichloroethene | Ave | 0.2952 | 0.2867 | | 48.6 | 50.0 | -2.9 | 50.0 |
| 2-Butanone | Lin1 | | 0.1561 | | 117 | 100 | 16.8 | 50.0 |
| Bromochloromethane | Ave | 0.1376 | 0.1229 | | 44.7 | 50.0 | -10.7 | 50.0 |
| Tetrahydrofuran | Lin1 | | 0.0990 | | 52.0 | 50.0 | 4.0 | 50.0 |
| Chloroform | Ave | 0.4764 | 0.4989 | | 52.4 | 50.0 | 4.7 | 20.0 |
| 1,1,1-Trichloroethane | Lin1 | | 0.4124 | | 47.1 | 50.0 | -5.8 | 50.0 |
| Cyclohexane | Lin1 | | 0.8244 | | 46.8 | 50.0 | -6.4 | 50.0 |
| 1,1-Dichloropropene | Ave | 0.3913 | 0.4138 | | 52.9 | 50.0 | 5.8 | 50.0 |
| Carbon tetrachloride | Lin1 | | 0.4024 | | 47.4 | 50.0 | -5.2 | 50.0 |
| Benzene | Ave | 1.056 | 1.076 | | 50.9 | 50.0 | 1.9 | 50.0 |
| 1,2-Dichloroethane | Ave | 0.4187 | 0.4519 | | 54.0 | 50.0 | 7.9 | 50.0 |
| Trichloroethene | Ave | 0.3002 | 0.2944 | | 49.0 | 50.0 | -1.9 | 50.0 |
| Methylcyclohexane | Lin1 | | 0.5330 | | 46.7 | 50.0 | -6.6 | 50.0 |
| 1,2-Dichloropropane | Ave | 0.2986 | 0.3330 | | 55.8 | 50.0 | 11.5 | 20.0 |
| Dibromomethane | Ave | 0.1215 | 0.1323 | | 54.4 | 50.0 | 8.8 | 50.0 |
| 1,4-Dioxane | Ave | 0.0019 | 0.0017 | | 2280 | 2500 | -9.0 | 50.0 |
| Bromodichloromethane | Lin1 | | 0.3163 | | 50.3 | 50.0 | 0.6 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCVIS 240-50900/3  Calibration Date: 07/16/2012 11:51

Instrument ID: A3UX14  Calib Start Date: 06/28/2012 14:23

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 06/28/2012 17:16

Lab File ID: 146719.D  Conc. Units: ug/L  Heated Purge: (Y/N) Y

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 2-Chloroethyl vinyl ether | Lin1 | | 0.0956 | | 91.7 | 100 | -8.3 | 50.0 |
| cis-1,3-Dichloropropene | Lin1 | | 0.3703 | | 50.5 | 50.0 | 1.0 | 50.0 |
| 4-Methyl-2-pentanone | Ave | 0.3910 | 0.4805 | | 123 | 100 | 22.9 | 50.0 |
| Toluene | Ave | 1.755 | 1.861 | | 53.0 | 50.0 | 6.0 | 20.0 |
| trans-1,3-Dichloropropene | Lin1 | | 0.4863 | | 55.3 | 50.0 | 10.6 | 50.0 |
| Ethyl methacrylate | Ave | 0.2878 | 0.3604 | | 62.6 | 50.0 | 25.2 | 50.0 |
| 1,1,2-Trichloroethane | Ave | 0.2408 | 0.2817 | | 58.5 | 50.0 | 17.0 | 50.0 |
| Tetrachloroethene | Ave | 0.3481 | 0.3804 | | 54.6 | 50.0 | 9.3 | 50.0 |
| 1,3-Dichloropropane | Ave | 0.4369 | 0.5187 | | 59.4 | 50.0 | 18.7 | 50.0 |
| 2-Hexanone | Ave | 0.2249 | 0.2698 | | 120 | 100 | 20.0 | 50.0 |
| Dibromochloromethane | Lin1 | | 0.3234 | | 51.5 | 50.0 | 3.0 | 50.0 |
| 1,2-Dibromoethane | Ave | 0.2515 | 0.2670 | | 53.1 | 50.0 | 6.1 | 50.0 |
| Chlorobenzene | Ave | 1.039 | 1.139 | 0.3000 | 54.8 | 50.0 | 9.7 | 50.0 |
| 1,1,1,2-Tetrachloroethane | Ave | 0.3843 | 0.4222 | | 54.9 | 50.0 | 9.9 | 50.0 |
| Ethylbenzene | Ave | 0.5649 | 0.6186 | | 54.8 | 50.0 | 9.5 | 20.0 |
| m-Xylene & p-Xylene | Ave | 0.6980 | 0.7450 | | 107 | 100 | 6.7 | 50.0 |
| o-Xylene | Ave | 0.7003 | 0.7345 | | 52.4 | 50.0 | 4.9 | 50.0 |
| Styrene | Ave | 1.038 | 1.109 | | 53.4 | 50.0 | 6.8 | 50.0 |
| Bromoform | Lin1 | | 0.1567 | 0.1000 | 51.6 | 50.0 | 3.2 | 50.0 |
| Isopropylbenzene | Ave | 1.853 | 2.081 | | 56.1 | 50.0 | 12.3 | 50.0 |
| 1,1,2,2-Tetrachloroethane | Ave | 0.5415 | 0.6447 | 0.3000 | 59.5 | 50.0 | 19.1 | 50.0 |
| Bromobenzene | Ave | 0.7752 | 0.8362 | | 53.9 | 50.0 | 7.9 | 50.0 |
| 1,2,3-Trichloropropane | Ave | 0.1985 | 0.2060 | | 51.9 | 50.0 | 3.7 | 50.0 |
| trans-1,4-Dichloro-2-butene | Ave | 0.2278 | 0.2759 | | 60.6 | 50.0 | 21.1 | 50.0 |
| n-Propylbenzene | Ave | 0.9218 | 1.075 | | 58.3 | 50.0 | 16.6 | 50.0 |
| 2-Chlorotoluene | Ave | 0.8219 | 0.9046 | | 55.0 | 50.0 | 10.1 | 50.0 |
| 1,3,5-Trimethylbenzene | Lin1 | | 3.430 | | 49.6 | 50.0 | -0.8 | 50.0 |
| 4-Chlorotoluene | Ave | 0.8216 | 0.8963 | | 54.5 | 50.0 | 9.1 | 50.0 |
| tert-Butylbenzene | Lin1 | | 3.222 | | 49.3 | 50.0 | -1.4 | 50.0 |
| 1,2,4-Trimethylbenzene | Ave | 2.958 | 3.361 | | 56.8 | 50.0 | 13.6 | 50.0 |
| sec-Butylbenzene | Lin1 | | 4.442 | | 49.5 | 50.0 | -1.0 | 50.0 |
| 1,3-Dichlorobenzene | Ave | 1.701 | 1.712 | | 50.3 | 50.0 | 0.7 | 50.0 |
| p-Isopropyltoluene | Lin1 | | 3.734 | | 49.0 | 50.0 | -2.0 | 50.0 |
| 1,4-Dichlorobenzene | Ave | 1.739 | 1.702 | | 48.9 | 50.0 | -2.1 | 50.0 |
| n-Butylbenzene | Lin1 | | 3.259 | | 51.5 | 50.0 | 3.0 | 50.0 |
| 1,2-Dichlorobenzene | Ave | 1.585 | 1.534 | | 48.4 | 50.0 | -3.2 | 50.0 |
| 1,2-Dibromo-3-Chloropropane | Ave | 0.0945 | 0.0872 | | 46.1 | 50.0 | -7.7 | 50.0 |
| 1,3,5-Trichlorobenzene | Ave | 1.306 | 1.139 | | 43.6 | 50.0 | -12.8 | 50.0 |
| 1,2,4-Trichlorobenzene | Ave | 1.114 | 0.9043 | | 40.6 | 50.0 | -18.8 | 50.0 |
| Hexachlorobutadiene | Ave | 0.5750 | 0.5218 | | 45.4 | 50.0 | -9.2 | 50.0 |
| Naphthalene | Ave | 2.088 | 1.706 | | 40.8 | 50.0 | -18.3 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCVIS 240-50900/3  Calibration Date: 07/16/2012 11:51

Instrument ID: A3UX14  Calib Start Date: 06/28/2012 14:23

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 06/28/2012 17:16

Lab File ID: 146719.D  Conc. Units: ug/L  Heated Purge: (Y/N) Y

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 1,2,3-Trichlorobenzene | Ave | 0.9649 | 0.7019 | | 36.4 | 50.0 | -27.3 | 50.0 |
| Dibromofluoromethane (Surr) | Lin1 | | 0.2833 | | 53.5 | 50.0 | 7.0 | 50.0 |
| 1,2-Dichloroethane-d4 (Surr) | Lin1 | | 0.3569 | | 56.5 | 50.0 | 13.0 | 50.0 |
| Toluene-d8 (Surr) | Lin1 | | 1.636 | | 57.1 | 50.0 | 14.2 | 50.0 |
| 4-Bromofluorobenzene (Surr) | Lin1 | | 1.010 | | 52.6 | 50.0 | 5.2 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCV 240-50900/4  Calibration Date: 07/16/2012 12:12

Instrument ID: A3UX14  Calib Start Date: 06/28/2012 14:23

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 06/28/2012 17:16

Lab File ID: 146720.D  Conc. Units: ug/L  Heated Purge: (Y/N) Y

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dibromofluoromethane (Surr) | Lin1 | | 0.2567 | | 48.4 | 50.0 | -3.2 | 50.0 |
| 1,2-Dichloroethane-d4 (Surr) | Lin1 | | 0.3293 | | 52.1 | 50.0 | 4.2 | 50.0 |
| Toluene-d8 (Surr) | Lin1 | | 1.579 | | 55.1 | 50.0 | 10.2 | 50.0 |
| 4-Bromofluorobenzene (Surr) | Lin1 | | 1.034 | | 53.9 | 50.0 | 7.8 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCV 240-50900/4  Calibration Date: 07/16/2012 12:12

Instrument ID: A3UX14  Calib Start Date: 06/28/2012 17:38

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 06/28/2012 20:31

Lab File ID: 146720.D  Conc. Units: ug/L  Heated Purge: (Y/N) Y

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorofluoromethane | Ave | 0.4617 | 0.4852 | | 52.5 | 50.0 | 5.1 | 50.0 |
| Ethyl ether | Ave | 0.3128 | 0.2933 | | 46.9 | 50.0 | -6.2 | 50.0 |
| 3-Chloro-1-propene | Ave | 0.1331 | 0.1468 | | 55.2 | 50.0 | 10.3 | 50.0 |
| 2-Chloro-1,3-butadiene | Ave | 0.6647 | 0.7674 | | 57.7 | 50.0 | 15.4 | 50.0 |
| Diisopropyl ether | Ave | 0.2374 | 0.2329 | | 245 | 250 | -1.9 | 50.0 |
| Ethyl-t-butyl ether (ETBE) | Ave | 1.042 | 1.060 | | 50.8 | 50.0 | 1.7 | 50.0 |
| Propionitrile | Ave | 0.0432 | 0.0384 | | 88.8 | 100 | -11.2 | 50.0 |
| Ethyl acetate | Ave | 0.2937 | 0.2732 | | 93.0 | 100 | -7.0 | 50.0 |
| Methacrylonitrile | Ave | 0.2042 | 0.1905 | | 46.7 | 50.0 | -6.7 | 50.0 |
| Isobutyl alcohol | Ave | 0.0104 | 0.0089 | | 856 | 1000 | -14.4 | 50.0 |
| Tert-amyl-methyl ether (TAME) | Ave | 0.6048 | 0.6209 | | 51.3 | 50.0 | 2.6 | 50.0 |
| n-Heptane | Ave | 0.0825 | 0.0865 | | 52.5 | 50.0 | 4.9 | 50.0 |
| n-Butanol | Qua | | 0.0119 | | 946 | 1000 | -5.4 | 50.0 |
| Methyl methacrylate | Ave | 0.2207 | 0.2230 | | 50.5 | 50.0 | 1.0 | 50.0 |
| 2-Nitropropane | Qua | | 0.0405 | | 100 | 100 | 0.1 | 50.0 |
| Cyclohexanone | Lin1 | | 0.0494 | | 486 | 500 | -2.8 | 50.0 |
| 1,2,3-Trimethylbenzene | Ave | 2.928 | 3.287 | | 56.1 | 50.0 | 12.3 | 50.0 |
| 2-Methylnaphthalene | Lin1 | | 1.045 | | 74.6 | 100 | -25.4 | 50.0 |

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab File ID: 146722.D Lab Sample ID: MB 240-50900/6

Matrix: Solid Heated Purge:(Y/N) Y

Instrument ID: A3UX14 Date Analyzed: 07/16/2012 12:56

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| | LCS 240-50900/5 | 146721.D | 07/16/2012 12:34 |
| | 240-13217-A-1 MS | 146724.D | 07/16/2012 13:39 |
| | 240-13217-A-1 MSD | 146725.D | 07/16/2012 14:01 |
| MT-SB17-0-2 | 240-13070-5 | 146741.D | 07/16/2012 19:47 |
| MT-SB17-8-10 | 240-13070-6 | 146742.D | 07/16/2012 20:09 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Client Sample ID:  Lab Sample ID: MB 240-50900/6

Matrix: Solid  Lab File ID: 146722.D

Analysis Method: 8260B  Date Collected:

Sample wt/vol: 5(g)  Date Analyzed: 07/16/2012 12:56

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 50900  Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 5.0 | U | 5.0 | 0.62 |
| 71-55-6 | 1,1,1-Trichloroethane | 5.0 | U | 5.0 | 0.56 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5.0 | U | 5.0 | 0.34 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trichfluoroeth ane | 5.0 | U | 5.0 | 1.3 |
| 75-34-3 | 1,1-Dichloroethane | 5.0 | U | 5.0 | 0.36 |
| 75-35-4 | 1,1-Dichloroethene | 5.0 | U | 5.0 | 0.52 |
| 563-58-6 | 1,1-Dichloropropene | 5.0 | U | 5.0 | 0.30 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.413 | J | 5.0 | 0.38 |
| 96-18-4 | 1,2,3-Trichloropropane | 5.0 | U | 5.0 | 0.90 |
| 526-73-8 | 1,2,3-Trimethylbenzene | 5.0 | U | 5.0 | 0.17 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.330 | J | 5.0 | 0.27 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 5.0 | U | 5.0 | 0.65 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 10 | U | 10 | 1.3 |
| 95-50-1 | 1,2-Dichlorobenzene | 5.0 | U | 5.0 | 0.36 |
| 107-06-2 | 1,2-Dichloroethane | 5.0 | U | 5.0 | 0.34 |
| 78-87-5 | 1,2-Dichloropropane | 5.0 | U | 5.0 | 0.69 |
| 541-73-1 | 1,3-Dichlorobenzene | 5.0 | U | 5.0 | 0.35 |
| 142-28-9 | 1,3-Dichloropropane | 5.0 | U | 5.0 | 0.34 |
| 106-46-7 | 1,4-Dichlorobenzene | 5.0 | U | 5.0 | 0.66 |
| 594-20-7 | 2,2-Dichloropropane | 5.0 | U | 5.0 | 0.94 |
| 110-75-8 | 2-Chloroethyl vinyl ether | 50 | U | 50 | 1.4 |
| 95-49-8 | 2-Chlorotoluene | 5.0 | U | 5.0 | 0.40 |
| 591-78-6 | 2-Hexanone | 20 | U | 20 | 0.63 |
| 106-43-4 | 4-Chlorotoluene | 5.0 | U | 5.0 | 0.41 |
| 67-64-1 | Acetone | 20 | U | 20 | 6.3 |
| 71-43-2 | Benzene | 5.0 | U | 5.0 | 0.23 |
| 108-86-1 | Bromobenzene | 5.0 | U | 5.0 | 0.33 |
| 74-97-5 | Bromochloromethane | 5.0 | U | 5.0 | 0.71 |
| 75-25-2 | Bromoform | 5.0 | U | 5.0 | 0.33 |
| 74-83-9 | Bromomethane | 5.0 | U | 5.0 | 0.54 |
| 75-15-0 | Carbon disulfide | 5.0 | U | 5.0 | 0.44 |
| 56-23-5 | Carbon tetrachloride | 5.0 | U | 5.0 | 0.37 |
| 108-90-7 | Chlorobenzene | 5.0 | U | 5.0 | 0.33 |
| 75-00-3 | Chloroethane | 5.0 | U | 5.0 | 0.86 |
| 67-66-3 | Chloroform | 5.0 | U | 5.0 | 0.29 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Client Sample ID:  Lab Sample ID: MB 240-50900/6

Matrix: Solid  Lab File ID: 146722.D

Analysis Method: 8260B  Date Collected:

Sample wt/vol: 5(g)  Date Analyzed: 07/16/2012 12:56

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 50900  Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | 5.0 | U | 5.0 | 0.41 |
| 156-59-2 | cis-1,2-Dichloroethene | 5.0 | U | 5.0 | 0.36 |
| 75-27-4 | Bromodichloromethane | 5.0 | U | 5.0 | 0.28 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.540 | J | 5.0 | 0.34 |
| 106-93-4 | 1,2-Dibromoethane | 5.0 | U | 5.0 | 0.50 |
| 74-95-3 | Dibromomethane | 5.0 | U | 5.0 | 0.63 |
| 75-71-8 | Dichlorodifluoromethane | 5.0 | U | 5.0 | 0.50 |
| 108-20-3 | Diisopropyl ether | 10 | U | 10 | 1.5 |
| 100-41-4 | Ethylbenzene | 5.0 | U | 5.0 | 0.26 |
| 87-68-3 | Hexachlorobutadiene | 5.0 | U | 5.0 | 1.2 |
| 98-82-8 | Isopropylbenzene | 5.0 | U | 5.0 | 0.16 |
| 78-93-3 | 2-Butanone | 20 | U | 20 | 1.4 |
| 108-10-1 | 4-Methyl-2-pentanone | 20 | U | 20 | 0.54 |
| 179601-23-1 | m-Xylene & p-Xylene | 10 | U | 10 | 1.2 |
| 1634-04-4 | Methyl tert-butyl ether | 20 | U | 20 | 0.43 |
| 91-20-3 | Naphthalene | 0.682 | J | 5.0 | 0.19 |
| 104-51-8 | n-Butylbenzene | 0.446 | J | 5.0 | 0.23 |
| 75-09-2 | Methylene Chloride | 5.0 | U | 5.0 | 0.67 |
| 103-65-1 | n-Propylbenzene | 5.0 | U | 5.0 | 0.40 |
| 95-47-6 | o-Xylene | 5.0 | U | 5.0 | 0.35 |
| 99-87-6 | p-Isopropyltoluene | 5.0 | U | 5.0 | 0.21 |
| 135-98-8 | sec-Butylbenzene | 5.0 | U | 5.0 | 0.18 |
| 637-92-3 | Ethyl-t-butyl ether (ETBE) | 5.0 | U | 5.0 | 0.22 |
| 100-42-5 | Styrene | 0.164 | J | 5.0 | 0.15 |
| 994-05-8 | Tert-amyl-methyl ether (TAME) | 5.0 | U | 5.0 | 0.37 |
| 98-06-6 | tert-Butylbenzene | 5.0 | U | 5.0 | 0.29 |
| 127-18-4 | Tetrachloroethene | 5.0 | U | 5.0 | 0.52 |
| 108-88-3 | Toluene | 5.0 | U | 5.0 | 0.27 |
| 156-60-5 | trans-1,2-Dichloroethene | 5.0 | U | 5.0 | 0.41 |
| 10061-02-6 | trans-1,3-Dichloropropene | 5.0 | U | 5.0 | 0.54 |
| 79-01-6 | Trichloroethene | 5.0 | U | 5.0 | 0.42 |
| 75-69-4 | Trichlorofluoromethane | 5.0 | U | 5.0 | 0.34 |
| 75-65-0 | tert-Butyl alcohol | 200 | U | 200 | 7.6 |
| 108-05-4 | Vinyl acetate | 10 | U | 10 | 0.25 |
| 75-01-4 | Vinyl chloride | 5.0 | U | 5.0 | 0.39 |
| 124-48-1 | Dibromochloromethane | 5.0 | U | 5.0 | 0.55 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Client Sample ID:  Lab Sample ID: MB 240-50900/6

Matrix: Solid  Lab File ID: 146722.D

Analysis Method: 8260B  Date Collected:

Sample wt/vol: 5(g)  Date Analyzed: 07/16/2012 12:56

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 50900  Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 1330-20-7 | Xylenes, Total | 10 | U | 10 | 0.67 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 107 | | 58-123 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 102 | | 52-136 |
| 2037-26-5 | Toluene-d8 (Surr) | 103 | | 67-125 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 95 | | 37-132 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Client Sample ID:  Lab Sample ID: MB 240-50900/6

Matrix: Solid  Lab File ID: 146722.D

Analysis Method: 8260B  Date Collected:

Sample wt/vol: 5(g)  Date Analyzed: 07/16/2012 12:56

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624 ID: 0.18(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 50900  Units: ug/Kg

Number TICs Found: 0  TIC Result Total: 0

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| | Tentatively Identified Compound | | None | |

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab File ID: BFB14188.D BFB Injection Date: 07/17/2012

Instrument ID: A3UX14 BFB Injection Time: 11:55

Analysis Batch No.: 51061

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 50 | 15.0 - 40.0 % of mass 95 | 28.6 | |
| 75 | 30.0 - 60.0 % of mass 95 | 49.8 | |
| 95 | Base Peak, 100% relative abundance | 100.0 | |
| 96 | 5.0 - 9.0 % of mass 95 | 6.5 | |
| 173 | Less than 2.0 % of mass 174 | 0.0 | (0.0)1 |
| 174 | 50.0 - 120.00 % of mass 95 | 81.0 | |
| 175 | 5.0 - 9.0 % of mass 174 | 6.2 | (7.7)1 |
| 176 | 95.0 - 101.0 % of mass 174 | 77.9 | (96.1)1 |
| 177 | 5.0 - 9.0 % of mass 176 | 5.1 | (6.6)2 |

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | CCVIS 240-51061/3 | 146752.D | 07/17/2012 | 12:38 |
| | CCV 240-51061/4 | 146753.D | 07/17/2012 | 13:00 |
| | LCS 240-51061/5 | 146754.D | 07/17/2012 | 13:22 |
| | MB 240-51061/6 | 146755.D | 07/17/2012 | 13:44 |
| MT-SS18-0-2 | 240-13070-2 | 146763.D | 07/17/2012 | 16:36 |
| MT-SS18-8-10 | 240-13070-3 | 146770.D | 07/17/2012 | 19:06 |
| | 240-13194-A-2 MS | 146775.D | 07/17/2012 | 20:53 |
| | 240-13194-A-2 MSD | 146776.D | 07/17/2012 | 21:15 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCVIS 240-51061/3  Calibration Date: 07/17/2012 12:38

Instrument ID: A3UX14  Calib Start Date: 06/28/2012 14:23

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 06/28/2012 17:16

Lab File ID: 146752.D  Conc. Units: ug/L  Heated Purge: (Y/N) Y

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | Ave | 0.3178 | 0.2686 | | 42.3 | 50.0 | -15.5 | 50.0 |
| Chloromethane | Ave | 0.6372 | 0.5950 | 0.1000 | 46.7 | 50.0 | -6.6 | 50.0 |
| Vinyl chloride | Ave | 0.3967 | 0.3802 | | 47.9 | 50.0 | -4.2 | 20.0 |
| Bromomethane | Lin1 | | 0.1194 | | 45.1 | 50.0 | -9.8 | 50.0 |
| Chloroethane | Ave | 0.1854 | 0.1745 | | 47.1 | 50.0 | -5.9 | 50.0 |
| Trichlorofluoromethane | Lin1 | | 0.3381 | | 42.8 | 50.0 | -14.4 | 50.0 |
| Acrolein | Ave | 0.0364 | 0.0339 | | 465 | 500 | -6.9 | 50.0 |
| 1,1-Dichloroethene | Ave | 0.2352 | 0.2286 | | 48.6 | 50.0 | -2.8 | 20.0 |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | Ave | 0.2257 | 0.2047 | | 45.3 | 50.0 | -9.3 | 50.0 |
| Acetone | Lin1 | | 0.0986 | | 104 | 100 | 4.2 | 50.0 |
| Iodomethane | Ave | 0.4148 | 0.3469 | | 41.8 | 50.0 | -16.4 | 50.0 |
| Carbon disulfide | Lin1 | | 0.4813 | | 35.1 | 50.0 | -29.8 | 50.0 |
| Acetonitrile | Lin1 | | 0.0343 | | 496 | 500 | -0.9 | 50.0 |
| Methyl acetate | Lin1 | | 0.2891 | | 111 | 100 | 11.4 | 50.0 |
| Methylene Chloride | Lin1 | | 0.2598 | | 42.1 | 50.0 | -15.8 | 50.0 |
| tert-Butyl alcohol | Ave | 0.0231 | 0.0208 | | 899 | 1000 | -10.1 | 50.0 |
| Acrylonitrile | Ave | 0.1161 | 0.1228 | | 106 | 100 | 5.8 | 50.0 |
| trans-1,2-Dichloroethene | Ave | 0.2815 | 0.2601 | | 46.2 | 50.0 | -7.6 | 50.0 |
| Methyl tert-butyl ether | Ave | 0.6624 | 0.6629 | | 50.0 | 50.0 | 0.0 | 50.0 |
| Hexane | Lin1 | | 0.0769 | | 47.5 | 50.0 | -5.0 | 20.0 |
| 1,1-Dichloroethane | Ave | 0.6190 | 0.6125 | 0.1000 | 49.5 | 50.0 | -1.1 | 50.0 |
| Vinyl acetate | Ave | 0.0298 | 0.0308 | | 51.7 | 50.0 | 3.3 | 50.0 |
| 2,2-Dichloropropane | Lin1 | | 0.2082 | | 38.3 | 50.0 | -23.4 | 50.0 |
| cis-1,2-Dichloroethene | Ave | 0.2952 | 0.2771 | | 46.9 | 50.0 | -6.1 | 50.0 |
| 2-Butanone | Lin1 | | 0.1552 | | 116 | 100 | 16.1 | 50.0 |
| Bromochloromethane | Ave | 0.1376 | 0.1233 | | 44.8 | 50.0 | -10.4 | 50.0 |
| Tetrahydrofuran | Lin1 | | 0.0963 | | 50.6 | 50.0 | 1.2 | 50.0 |
| Chloroform | Ave | 0.4764 | 0.4799 | | 50.4 | 50.0 | 0.7 | 20.0 |
| 1,1,1-Trichloroethane | Lin1 | | 0.3883 | | 44.3 | 50.0 | -11.4 | 50.0 |
| Cyclohexane | Lin1 | | 0.8393 | | 47.6 | 50.0 | -4.8 | 50.0 |
| 1,1-Dichloropropene | Ave | 0.3913 | 0.4009 | | 51.2 | 50.0 | 2.4 | 50.0 |
| Carbon tetrachloride | Lin1 | | 0.3811 | | 44.9 | 50.0 | -10.2 | 50.0 |
| Benzene | Ave | 1.056 | 1.037 | | 49.1 | 50.0 | -1.8 | 50.0 |
| 1,2-Dichloroethane | Ave | 0.4187 | 0.4410 | | 52.7 | 50.0 | 5.3 | 50.0 |
| Trichloroethene | Ave | 0.3002 | 0.2885 | | 48.1 | 50.0 | -3.9 | 50.0 |
| Methylcyclohexane | Lin1 | | 0.5160 | | 45.2 | 50.0 | -9.6 | 50.0 |
| 1,2-Dichloropropane | Ave | 0.2986 | 0.3222 | | 54.0 | 50.0 | 7.9 | 20.0 |
| Dibromomethane | Ave | 0.1215 | 0.1272 | | 52.3 | 50.0 | 4.6 | 50.0 |
| 1,4-Dioxane | Ave | 0.0019 | 0.0017 | | 2260 | 2500 | -9.6 | 50.0 |
| Bromodichloromethane | Lin1 | | 0.3097 | | 49.3 | 50.0 | -1.4 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCVIS 240-51061/3  Calibration Date: 07/17/2012 12:38

Instrument ID: A3UX14  Calib Start Date: 06/28/2012 14:23

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 06/28/2012 17:16

Lab File ID: 146752.D  Conc. Units: ug/L  Heated Purge: (Y/N) Y

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 2-Chloroethyl vinyl ether | Linl | | 0.1119 | | 107 | 100 | 7.2 | 50.0 |
| cis-1,3-Dichloropropene | Linl | | 0.3663 | | 49.9 | 50.0 | -0.2 | 50.0 |
| 4-Methyl-2-pentanone | Ave | 0.3910 | 0.4883 | | 125 | 100 | 24.9 | 50.0 |
| Toluene | Ave | 1.755 | 1.817 | | 51.8 | 50.0 | 3.5 | 20.0 |
| trans-1,3-Dichloropropene | Linl | | 0.4950 | | 56.3 | 50.0 | 12.6 | 50.0 |
| Ethyl methacrylate | Ave | 0.2878 | 0.3859 | | 67.0 | 50.0 | 34.1 | 50.0 |
| 1,1,2-Trichloroethane | Ave | 0.2408 | 0.2836 | | 58.9 | 50.0 | 17.8 | 50.0 |
| Tetrachloroethene | Ave | 0.3481 | 0.3834 | | 55.1 | 50.0 | 10.2 | 50.0 |
| 1,3-Dichloropropane | Ave | 0.4369 | 0.5093 | | 58.3 | 50.0 | 16.6 | 50.0 |
| 2-Hexanone | Ave | 0.2249 | 0.2953 | | 131 | 100 | 31.3 | 50.0 |
| Dibromochloromethane | Linl | | 0.3183 | | 50.7 | 50.0 | 1.4 | 50.0 |
| 1,2-Dibromoethane | Ave | 0.2515 | 0.2613 | | 52.0 | 50.0 | 3.9 | 50.0 |
| Chlorobenzene | Ave | 1.039 | 1.130 | 0.3000 | 54.4 | 50.0 | 8.8 | 50.0 |
| 1,1,1,2-Tetrachloroethane | Ave | 0.3843 | 0.4062 | | 52.9 | 50.0 | 5.7 | 50.0 |
| Ethylbenzene | Ave | 0.5649 | 0.5990 | | 53.0 | 50.0 | 6.0 | 20.0 |
| m-Xylene & p-Xylene | Ave | 0.6980 | 0.7317 | | 105 | 100 | 4.8 | 50.0 |
| o-Xylene | Ave | 0.7003 | 0.7213 | | 51.5 | 50.0 | 3.0 | 50.0 |
| Styrene | Ave | 1.038 | 1.114 | | 53.7 | 50.0 | 7.3 | 50.0 |
| Bromoform | Linl | | 0.1594 | 0.1000 | 52.4 | 50.0 | 4.8 | 50.0 |
| Isopropylbenzene | Ave | 1.853 | 2.005 | | 54.1 | 50.0 | 8.2 | 50.0 |
| 1,1,2,2-Tetrachloroethane | Ave | 0.5415 | 0.6441 | 0.3000 | 59.5 | 50.0 | 19.0 | 50.0 |
| Bromobenzene | Ave | 0.7752 | 0.8493 | | 54.8 | 50.0 | 9.6 | 50.0 |
| 1,2,3-Trichloropropane | Ave | 0.1985 | 0.2134 | | 53.8 | 50.0 | 7.5 | 50.0 |
| trans-1,4-Dichloro-2-butene | Ave | 0.2278 | 0.2887 | | 63.4 | 50.0 | 26.7 | 50.0 |
| n-Propylbenzene | Ave | 0.9218 | 1.091 | | 59.2 | 50.0 | 18.4 | 50.0 |
| 2-Chlorotoluene | Ave | 0.8219 | 0.8992 | | 54.7 | 50.0 | 9.4 | 50.0 |
| 1,3,5-Trimethylbenzene | Linl | | 3.390 | | 49.0 | 50.0 | -2.0 | 50.0 |
| 4-Chlorotoluene | Ave | 0.8216 | 0.8999 | | 54.8 | 50.0 | 9.5 | 50.0 |
| tert-Butylbenzene | Linl | | 3.195 | | 48.8 | 50.0 | -2.4 | 50.0 |
| 1,2,4-Trimethylbenzene | Ave | 2.958 | 3.317 | | 56.1 | 50.0 | 12.1 | 50.0 |
| sec-Butylbenzene | Linl | | 4.369 | | 48.7 | 50.0 | -2.6 | 50.0 |
| 1,3-Dichlorobenzene | Ave | 1.701 | 1.711 | | 50.3 | 50.0 | 0.6 | 50.0 |
| p-Isopropyltoluene | Linl | | 3.708 | | 48.7 | 50.0 | -2.6 | 50.0 |
| 1,4-Dichlorobenzene | Ave | 1.739 | 1.703 | | 49.0 | 50.0 | -2.0 | 50.0 |
| n-Butylbenzene | Linl | | 3.224 | | 50.9 | 50.0 | 1.8 | 50.0 |
| 1,2-Dichlorobenzene | Ave | 1.585 | 1.547 | | 48.8 | 50.0 | -2.4 | 50.0 |
| 1,2-Dibromo-3-Chloropropane | Ave | 0.0945 | 0.0924 | | 48.9 | 50.0 | -2.2 | 50.0 |
| 1,3,5-Trichlorobenzene | Ave | 1.306 | 1.097 | | 42.0 | 50.0 | -16.0 | 50.0 |
| 1,2,4-Trichlorobenzene | Ave | 1.114 | 0.8790 | | 39.4 | 50.0 | -21.1 | 50.0 |
| Hexachlorobutadiene | Ave | 0.5750 | 0.4817 | | 41.9 | 50.0 | -16.2 | 50.0 |
| Naphthalene | Ave | 2.088 | 1.713 | | 41.0 | 50.0 | -18.0 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCVIS 240-51061/3  Calibration Date: 07/17/2012 12:38

Instrument ID: A3UX14  Calib Start Date: 06/28/2012 14:23

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 06/28/2012 17:16

Lab File ID: 146752.D  Conc. Units: ug/L  Heated Purge: (Y/N) Y

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 1,2,3-Trichlorobenzene | Ave | 0.9649 | 0.6765 | | 35.1 | 50.0 | -29.9 | 50.0 |
| Dibromofluoromethane (Surr) | Lin1 | | 0.2518 | | 47.5 | 50.0 | -5.0 | 50.0 |
| 1,2-Dichloroethane-d4 (Surr) | Lin1 | | 0.3177 | | 50.2 | 50.0 | 0.4 | 50.0 |
| Toluene-d8 (Surr) | Lin1 | | 1.514 | | 52.8 | 50.0 | 5.6 | 50.0 |
| 4-Bromofluorobenzene (Surr) | Lin1 | | 0.9892 | | 51.5 | 50.0 | 3.0 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCV 240-51061/4  Calibration Date: 07/17/2012 13:00

Instrument ID: A3UX14  Calib Start Date: 06/28/2012 14:23

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 06/28/2012 17:16

Lab File ID: 146753.D  Conc. Units: ug/L  Heated Purge: (Y/N) Y

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dibromofluoromethane (Surr) | Lin1 | | 0.2340 | | 44.1 | 50.0 | -11.8 | 50.0 |
| 1,2-Dichloroethane-d4 (Surr) | Lin1 | | 0.3131 | | 49.5 | 50.0 | -1.0 | 50.0 |
| Toluene-d8 (Surr) | Lin1 | | 1.443 | | 50.3 | 50.0 | 0.6 | 50.0 |
| 4-Bromofluorobenzene (Surr) | Lin1 | | 1.000 | | 52.1 | 50.0 | 4.2 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCV 240-51061/4  Calibration Date: 07/17/2012 13:00

Instrument ID: A3UX14  Calib Start Date: 06/28/2012 17:38

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 06/28/2012 20:31

Lab File ID: 146753.D  Conc. Units: ug/L  Heated Purge: (Y/N) Y

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorofluoromethane | Ave | 0.4617 | 0.4471 | | 48.4 | 50.0 | -3.1 | 50.0 |
| Ethyl ether | Ave | 0.3128 | 0.2895 | | 46.3 | 50.0 | -7.4 | 50.0 |
| 3-Chloro-1-propene | Ave | 0.1331 | 0.1313 | | 49.3 | 50.0 | -1.3 | 50.0 |
| 2-Chloro-1,3-butadiene | Ave | 0.6647 | 0.7145 | | 53.7 | 50.0 | 7.5 | 50.0 |
| Diisopropyl ether | Ave | 0.2374 | 0.2231 | | 235 | 250 | -6.0 | 50.0 |
| Ethyl-t-butyl ether (ETBE) | Ave | 1.042 | 1.073 | | 51.5 | 50.0 | 2.9 | 50.0 |
| Propionitrile | Ave | 0.0432 | 0.0426 | | 98.5 | 100 | -1.5 | 50.0 |
| Ethyl acetate | Ave | 0.2937 | 0.3101 | | 106 | 100 | 5.6 | 50.0 |
| Methacrylonitrile | Ave | 0.2042 | 0.2035 | | 49.8 | 50.0 | -0.3 | 50.0 |
| Isobutyl alcohol | Ave | 0.0104 | 0.0106 | | 1020 | 1000 | 1.9 | 50.0 |
| Tert-amyl-methyl ether (TAME) | Ave | 0.6048 | 0.6143 | | 50.8 | 50.0 | 1.6 | 50.0 |
| n-Heptane | Ave | 0.0825 | 0.0905 | | 54.8 | 50.0 | 9.7 | 50.0 |
| n-Butanol | Qua | | 0.0132 | | 1040 | 1000 | 4.4 | 50.0 |
| Methyl methacrylate | Ave | 0.2207 | 0.2694 | | 61.0 | 50.0 | 22.1 | 50.0 |
| 2-Nitropropane | Qua | | 0.0479 | | 116 | 100 | 15.9 | 50.0 |
| Cyclohexanone | Lin1 | | 0.0583 | | 573 | 500 | 14.6 | 50.0 |
| 1,2,3-Trimethylbenzene | Ave | 2.928 | 3.011 | | 51.4 | 50.0 | 2.8 | 50.0 |
| 2-Methylnaphthalene | Lin1 | | 1.054 | | 75.3 | 100 | -24.7 | 50.0 |

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab File ID: 146755.D Lab Sample ID: MB 240-51061/6

Matrix: Solid Heated Purge: (Y/N) Y

Instrument ID: A3UX14 Date Analyzed: 07/17/2012 13:44

GC Column: DB-624 ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| | LCS 240-51061/5 | 146754.D | 07/17/2012 13:22 |

MT-5518-0-2
MT-5518-8-10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Client Sample ID:  Lab Sample ID: MB 240-51061/6

Matrix: Solid  Lab File ID: 146755.D

Analysis Method: 8260B  Date Collected:

Sample wt/vol: 5(g)  Date Analyzed: 07/17/2012 13:44

Soil Aliquot Vol: 5 (g)  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 51061  Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 5.0 | U | 5.0 | 0.18 |
| 71-55-6 | 1,1,1-Trichloroethane | 5.0 | U | 5.0 | 0.42 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5.0 | U | 5.0 | 0.18 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trichfluoroeth ane | 5.0 | U | 5.0 | 0.78 |
| 75-34-3 | 1,1-Dichloroethane | 5.0 | U | 5.0 | 0.34 |
| 75-35-4 | 1,1-Dichloroethene | 5.0 | U | 5.0 | 0.36 |
| 563-58-6 | 1,1-Dichloropropene | 5.0 | U | 5.0 | 0.20 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.427 | J | 5.0 | 0.20 |
| 96-18-4 | 1,2,3-Trichloropropane | 5.0 | U | 5.0 | 0.42 |
| 526-73-8 | 1,2,3-Trimethylbenzene | 0.130 | J | 5.0 | 0.0034 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.361 | J | 5.0 | 0.15 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 5.0 | U | 5.0 | 0.10 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 10 | U | 10 | 1.0 |
| 95-50-1 | 1,2-Dichlorobenzene | 5.0 | U | 5.0 | 0.17 |
| 107-06-2 | 1,2-Dichloroethane | 5.0 | U | 5.0 | 0.20 |
| 78-87-5 | 1,2-Dichloropropane | 5.0 | U | 5.0 | 0.16 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.214 | J | 5.0 | 0.096 |
| 142-28-9 | 1,3-Dichloropropane | 5.0 | U | 5.0 | 0.44 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.239 | J | 5.0 | 0.16 |
| 594-20-7 | 2,2-Dichloropropane | 5.0 | U | 5.0 | 0.46 |
| 110-75-8 | 2-Chloroethyl vinyl ether | 20 | U | 20 | 0.86 |
| 95-49-8 | 2-Chlorotoluene | 5.0 | U | 5.0 | 0.18 |
| 591-78-6 | 2-Hexanone | 0.669 | J | 20 | 0.40 |
| 106-43-4 | 4-Chlorotoluene | 5.0 | U | 5.0 | 0.20 |
| 67-64-1 | Acetone | 20 | U | 20 | 3.4 |
| 71-43-2 | Benzene | 5.0 | U | 5.0 | 0.24 |
| 108-86-1 | Bromobenzene | 5.0 | U | 5.0 | 0.26 |
| 74-97-5 | Bromochloromethane | 5.0 | U | 5.0 | 0.26 |
| 75-25-2 | Bromoform | 5.0 | U | 5.0 | 0.38 |
| 74-83-9 | Bromomethane | 5.0 | U | 5.0 | 0.58 |
| 75-15-0 | Carbon disulfide | 5.0 | U | 5.0 | 0.24 |
| 56-23-5 | Carbon tetrachloride | 5.0 | U | 5.0 | 0.13 |
| 108-90-7 | Chlorobenzene | 5.0 | U | 5.0 | 0.13 |
| 75-00-3 | Chloroethane | 5.0 | U | 5.0 | 1.2 |
| 67-66-3 | Chloroform | 5.0 | U | 5.0 | 0.18 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Client Sample ID:  Lab Sample ID: MB 240-51061/6

Matrix: Solid  Lab File ID: 146755.D

Analysis Method: 8260B  Date Collected:

Sample wt/vol: 5(g)  Date Analyzed: 07/17/2012 13:44

Soil Aliquot Vol: 5 (g)  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 51061  Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | 5.0 | U | 5.0 | 0.28 |
| 156-59-2 | cis-1,2-Dichloroethene | 5.0 | U | 5.0 | 0.14 |
| 75-27-4 | Bromodichloromethane | 5.0 | U | 5.0 | 0.20 |
| 10061-01-5 | cis-1,3-Dichloropropene | 5.0 | U | 5.0 | 0.16 |
| 106-93-4 | 1,2-Dibromoethane | 5.0 | U | 5.0 | 0.20 |
| 74-95-3 | Dibromomethane | 5.0 | U | 5.0 | 0.28 |
| 75-71-8 | Dichlorodifluoromethane | 5.0 | U | 5.0 | 0.32 |
| 108-20-3 | Diisopropyl ether | 10 | U | 10 | 1.0 |
| 100-41-4 | Ethylbenzene | 5.0 | U | 5.0 | 0.11 |
| 87-68-3 | Hexachlorobutadiene | 5.0 | U | 5.0 | 0.28 |
| 98-82-8 | Isopropylbenzene | 5.0 | U | 5.0 | 0.13 |
| 78-93-3 | 2-Butanone | 0.974 | J | 20 | 0.86 |
| 108-10-1 | 4-Methyl-2-pentanone | 20 | U | 20 | 0.96 |
| 179601-23-1 | m-Xylene & p-Xylene | 0.189 | J | 10 | 0.12 |
| 1634-04-4 | Methyl tert-butyl ether | 20 | U | 20 | 0.14 |
| 91-20-3 | Naphthalene | 0.491 | J | 5.0 | 0.13 |
| 104-51-8 | n-Butylbenzene | 0.454 | J | 5.0 | 0.16 |
| 75-09-2 | Methylene Chloride | 5.0 | U | 5.0 | 1.5 |
| 103-65-1 | n-Propylbenzene | 5.0 | U | 5.0 | 0.28 |
| 95-47-6 | o-Xylene | 5.0 | U | 5.0 | 0.17 |
| 99-87-6 | p-Isopropyltoluene | 5.0 | U | 5.0 | 0.096 |
| 135-98-8 | sec-Butylbenzene | 5.0 | U | 5.0 | 0.094 |
| 637-92-3 | Ethyl-t-butyl ether (ETBE) | 5.0 | U | 5.0 | 0.0044 |
| 100-42-5 | Styrene | 0.172 | J | 5.0 | 0.11 |
| 994-05-8 | Tert-amyl-methyl ether (TAME) | 5.0 | U | 5.0 | 0.0074 |
| 98-06-6 | tert-Butylbenzene | 5.0 | U | 5.0 | 0.13 |
| 127-18-4 | Tetrachloroethene | 5.0 | U | 5.0 | 0.24 |
| 108-88-3 | Toluene | 5.0 | U | 5.0 | 0.34 |
| 156-60-5 | trans-1,2-Dichloroethene | 5.0 | U | 5.0 | 0.18 |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.516 | J | 5.0 | 0.40 |
| 79-01-6 | Trichloroethene | 5.0 | U | 5.0 | 0.19 |
| 75-69-4 | Trichlorofluoromethane | 5.0 | U | 5.0 | 0.32 |
| 75-65-0 | tert-Butyl alcohol | 200 | U | 200 | 4.8 |
| 108-05-4 | Vinyl acetate | 10 | U | 10 | 0.46 |
| 75-01-4 | Vinyl chloride | 5.0 | U | 5.0 | 0.36 |
| 124-48-1 | Dibromochloromethane | 5.0 | U | 5.0 | 0.24 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Client Sample ID:  Lab Sample ID: MB 240-51061/6

Matrix: Solid  Lab File ID: 146755.D

Analysis Method: 8260B  Date Collected:

Sample wt/vol: 5(g)  Date Analyzed: 07/17/2012 13:44

Soil Aliquot Vol: 5 (g)  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 51061  Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 1330-20-7 | Xylenes, Total | 0.189 | J | 10 | 0.16 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 102 | | 39-128 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 100 | | 26-141 |
| 2037-26-5 | Toluene-d8 (Surr) | 101 | | 33-134 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 89 | | 30-122 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Client Sample ID:  Lab Sample ID: MB 240-51061/6

Matrix: Solid  Lab File ID: 146755.D

Analysis Method: 8260B  Date Collected:

Sample wt/vol: 5(g)  Date Analyzed: 07/17/2012 13:44

Soil Aliquot Vol: 5 (g)  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624 ID: 0.18(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 51061  Units: ug/Kg

Number TICs Found: 0  TIC Result Total: 0

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| | Tentatively Identified Compound | | None | |

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab File ID: BFB989.D BFB Injection Date: 06/19/2012

Instrument ID: A3UX11 BFB Injection Time: 12:15

Analysis Batch No.: 47806

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 50 | 15.0 - 40.0 % of mass 95 | 15.7 | |
| 75 | 30.0 - 60.0 % of mass 95 | 45.8 | |
| 95 | Base Peak, 100% relative abundance | 100.0 | |
| 96 | 5.0 - 9.0 % of mass 95 | 6.5 | |
| 173 | Less than 2.0 % of mass 174 | 0.0 | (0.0)1 |
| 174 | 50.0 - 120.00 % of mass 95 | 82.3 | |
| 175 | 5.0 - 9.0 % of mass 174 | 6.7 | (8.2)1 |
| 176 | 95.0 - 101.0 % of mass 174 | 80.1 | (97.4)1 |
| 177 | 5.0 - 9.0 % of mass 176 | 5.3 | (6.6)2 |

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | STD8260 240-47806/4 | UXJ5152.D | 06/19/2012 | 13:56 |
| | STD8260 240-47806/5 | UXJ5153.D | 06/19/2012 | 14:18 |
| | STD8260 240-47806/6 | UXJ5154.D | 06/19/2012 | 14:41 |
| | STD8260 240-47806/7 | UXJ5155.D | 06/19/2012 | 15:04 |
| | STD8260 240-47806/8 | UXJ5156.D | 06/19/2012 | 15:26 |
| | STD8260 240-47806/9 | UXJ5157.D | 06/19/2012 | 15:49 |
| | STD6 240-47806/10 | UXJ5158.D | 06/19/2012 | 16:12 |
| | STD5 240-47806/11 | UXJ5159.D | 06/19/2012 | 16:35 |
| | STD4 240-47806/12 | UXJ5160.D | 06/19/2012 | 16:57 |
| | STD3 240-47806/13 | UXJ5161.D | 06/19/2012 | 17:20 |
| | STD2 240-47806/14 | UXJ5162.D | 06/19/2012 | 17:43 |
| | STD1 240-47806/15 | UXJ5163.D | 06/19/2012 | 18:05 |
| | ICV 240-47806/22 | UXJ5170.D | 06/19/2012 | 20:44 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-13070-1  Analy Batch No.: 47806

SDG No.:

Instrument ID: A3UX11  GC Column: DB-624  ID: 0.18(mm)  Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2012 13:56  Calibration End Date: 06/19/2012 15:49  Calibration ID: 9354

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD8260 240-47806/9 | UXJ5157.D |
| Level 2 | STD8260 240-47806/8 | UXJ5156.D |
| Level 3 | STD8260 240-47806/7 | UXJ5155.D |
| Level 4 | STD8260 240-47806/6 | UXJ5154.D |
| Level 5 | STD8260 240-47806/5 | UXJ5153.D |
| Level 6 | STD8260 240-47806/4 | UXJ5152.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Dichlorodifluoromethane | 0.2106<br>0.2154 | 0.2066 | 0.1997 | 0.2437 | 0.2399 | Ave | | 0.2193 | | | | 8.3 | | 15.0 | | | |
| Chloromethane | 0.3977<br>0.3706 | 0.3818 | 0.3575 | 0.3446 | 0.3613 | Ave | | 0.3689 | | | 0.1000 | 5.1 | | 15.0 | | | |
| Vinyl chloride | 0.3394<br>0.3587 | 0.3502 | 0.3483 | 0.3504 | 0.3544 | Ave | | 0.3502 | | | | 1.8 | | 15.0 | | | |
| Bromomethane | 0.0907<br>0.1236 | 0.0965 | 0.1240 | 0.1094 | 0.1201 | Ave | | 0.1107 | | | | 13.0 | | 15.0 | | | |
| Chloroethane | 0.1114<br>0.1297 | 0.1101 | 0.1362 | 0.1124 | 0.1267 | Ave | | 0.1211 | | | | 9.2 | | 15.0 | | | |
| Trichlorofluoromethane | 0.2930<br>0.3121 | 0.2804 | 0.2938 | 0.3208 | 0.3349 | Ave | | 0.3058 | | | | 6.6 | | 15.0 | | | |
| Acrolein | 0.0340<br>0.0369 | 0.0366 | 0.0386 | 0.0379 | 0.0383 | Ave | | 0.0370 | | | | 4.6 | | 15.0 | | | |
| 1,1-Dichloroethene | 0.2484<br>0.2421 | 0.2433 | 0.2498 | 0.2483 | 0.2507 | Ave | | 0.2471 | | | | 1.4 | | 15.0 | | | |
| Acetone | 0.1017<br>0.0563 | 0.0915 | 0.0696 | 0.0624 | 0.0585 | Lin1 | 0.1134 | 0.0556 | | | | | | | 0.9980 | | 0.9900 |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 0.1581<br>0.1603 | 0.1564 | 0.1685 | 0.1893 | 0.1904 | Ave | | 0.1705 | | | | 9.1 | | 15.0 | | | |
| Iodomethane | 0.3396<br>0.3452 | 0.3237 | 0.3606 | 0.3373 | 0.3419 | Ave | | 0.3414 | | | | 3.5 | | 15.0 | | | |
| Carbon disulfide | 0.8425<br>0.8447 | 0.7922 | 0.8240 | 0.8283 | 0.8473 | Ave | | 0.8298 | | | | 2.5 | | 15.0 | | | |
| Acetonitrile | 0.0270<br>0.0222 | 0.0267 | 0.0248 | 0.0257 | 0.0235 | Ave | | 0.0250 | | | | 7.4 | | 15.0 | | | |
| Methyl acetate | 0.1903<br>0.1560 | 0.1741 | 0.1728 | 0.1650 | 0.1638 | Ave | | 0.1703 | | | | 6.9 | | 15.0 | | | |
| Methylene Chloride | 0.4957<br>0.2736 | 0.3616 | 0.3075 | 0.2778 | 0.2692 | Lin1 | 0.2150 | 0.2637 | | | | | | | 0.9990 | | 0.9900 |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-13070-1  Analy Batch No.: 47806

SDG No.:

Instrument ID: A3UX11  GC Column: DB-624  ID: 0.18(mm)  Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2012 13:56  Calibration End Date: 06/19/2012 15:49  Calibration ID: 9354

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| tert-Butyl alcohol | 0.0220<br>0.0166 | 0.0208 | 0.0194 | 0.0188 | 0.0179 | Ave | | 0.0192 | | | | 10.0 | | 15.0 | | | |
| Acrylonitrile | 0.0872<br>0.0834 | 0.0935 | 0.0926 | 0.0867 | 0.0857 | Ave | | 0.0882 | | | | 4.6 | | 15.0 | | | |
| Methyl tert-butyl ether | 0.8243<br>0.7795 | 0.7836 | 0.7999 | 0.7743 | 0.7803 | Ave | | 0.7903 | | | | 2.4 | | 15.0 | | | |
| trans-1,2-Dichloroethene | 0.3033<br>0.2848 | 0.2739 | 0.2893 | 0.2767 | 0.2801 | Ave | | 0.2847 | | | | 3.7 | | 15.0 | | | |
| Hexane | 0.0581<br>0.0611 | 0.0583 | 0.0594 | 0.0737 | 0.0734 | Ave | | 0.0640 | | | | 12.0 | | 15.0 | | | |
| 1,1-Dichloroethane | 0.4974<br>0.4815 | 0.4776 | 0.4640 | 0.4568 | 0.4623 | Ave | | 0.4733 | | | 0.1000 | 3.2 | | 15.0 | | | |
| Vinyl acetate | 0.0516<br>0.0587 | 0.0539 | 0.0605 | 0.0558 | 0.0590 | Ave | | 0.0566 | | | | 6.1 | | 15.0 | | | |
| 2-Butanone | 0.1055<br>0.0871 | 0.0998 | 0.1038 | 0.0926 | 0.0933 | Ave | | 0.0970 | | | | 7.4 | | 15.0 | | | |
| cis-1,2-Dichloroethene | 0.3206<br>0.3153 | 0.3168 | 0.3161 | 0.3020 | 0.3024 | Ave | | 0.3122 | | | | 2.5 | | 15.0 | | | |
| 2,2-Dichloropropane | 0.2924<br>0.2762 | 0.2677 | 0.2780 | 0.2854 | 0.2851 | Ave | | 0.2808 | | | | 3.1 | | 15.0 | | | |
| Bromochloromethane | 0.1501<br>0.1462 | 0.1510 | 0.1478 | 0.1401 | 0.1423 | Ave | | 0.1462 | | | | 3.0 | | 15.0 | | | |
| Tetrahydrofuran | 0.0720<br>0.0593 | 0.0675 | 0.0634 | 0.0640 | 0.0633 | Ave | | 0.0649 | | | | 6.7 | | 15.0 | | | |
| Chloroform | 0.5108<br>0.4821 | 0.4793 | 0.4855 | 0.4678 | 0.4646 | Ave | | 0.4817 | | | | 3.4 | | 15.0 | | | |
| 1,1,1-Trichloroethane | 0.3733<br>0.3736 | 0.3666 | 0.3741 | 0.3758 | 0.3747 | Ave | | 0.3730 | | | | 0.9 | | 15.0 | | | |
| Cyclohexane | 0.4265<br>0.4068 | 0.3940 | 0.4053 | 0.4599 | 0.4684 | Ave | | 0.4268 | | | | 7.2 | | 15.0 | | | |
| 1,1-Dichloropropene | 0.4133<br>0.3910 | 0.3770 | 0.3865 | 0.3843 | 0.3873 | Ave | | 0.3899 | | | | 3.2 | | 15.0 | | | |
| Carbon tetrachloride | 0.3130<br>0.3237 | 0.2994 | 0.3154 | 0.3262 | 0.3289 | Ave | | 0.3178 | | | | 3.4 | | 15.0 | | | |
| 1,2-Dichloroethane | 0.3636<br>0.3558 | 0.3594 | 0.3672 | 0.3472 | 0.3439 | Ave | | 0.3562 | | | | 2.6 | | 15.0 | | | |
| Benzene | 1.2322<br>1.2088 | 1.1764 | 1.1803 | 1.1447 | 1.1538 | Ave | | 1.1827 | | | | 2.8 | | 15.0 | | | |
| Trichloroethene | 0.3257<br>0.3080 | 0.3104 | 0.3020 | 0.2899 | 0.2968 | Ave | | 0.3055 | | | | 4.1 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-13070-1  Analy Batch No.: 47806

SDG No.:

Instrument ID: A3UX11  GC Column: DB-624  ID: 0.18(mm)  Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2012 13:56  Calibration End Date: 06/19/2012 15:49  Calibration ID: 9354

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 1,2-Dichloropropane | 0.3011<br>0.2796 | 0.2755 | 0.2778 | 0.2722 | 0.2708 | Ave | | 0.2795 | | | | 4.0 | | 15.0 | | | |
| Methylcyclohexane | 0.4191<br>0.4112 | 0.3761 | 0.3972 | 0.4679 | 0.4779 | Ave | | 0.4249 | | | | 9.4 | | 15.0 | | | |
| Dibromomethane | 0.1677<br>0.1549 | 0.1467 | 0.1570 | 0.1552 | 0.1561 | Ave | | 0.1563 | | | | 4.3 | | 15.0 | | | |
| 1,4-Dioxane | 0.0028<br>0.0022 | 0.0027 | 0.0026 | 0.0027 | 0.0024 | Ave | | 0.0026 | | | | 7.8 | | 15.0 | | | |
| Bromodichloromethane | 0.3651<br>0.3692 | 0.3436 | 0.3475 | 0.3454 | 0.3520 | Ave | | 0.3538 | | | | 3.1 | | 15.0 | | | |
| 2-Chloroethyl vinyl ether | 0.1563<br>0.1709 | 0.1729 | 0.1760 | 0.1666 | 0.1677 | Ave | | 0.1684 | | | | 4.1 | | 15.0 | | | |
| cis-1,3-Dichloropropene | 0.4551<br>0.4798 | 0.4583 | 0.4640 | 0.4431 | 0.4529 | Ave | | 0.4589 | | | | 2.7 | | 15.0 | | | |
| 4-Methyl-2-pentanone | 0.2098<br>0.1903 | 0.2120 | 0.2104 | 0.1959 | 0.1974 | Ave | | 0.2026 | | | | 4.5 | | 15.0 | | | |
| Toluene | 1.8464<br>1.8696 | 1.7453 | 1.7767 | 1.7172 | 1.7755 | Ave | | 1.7885 | | | | 3.3 | | 15.0 | | | |
| trans-1,3-Dichloropropene | 0.5535<br>0.5895 | 0.5249 | 0.5563 | 0.5518 | 0.5688 | Ave | | 0.5575 | | | | 3.8 | | 15.0 | | | |
| Ethyl methacrylate | 0.4704<br>0.4865 | 0.4787 | 0.4870 | 0.4914 | 0.4968 | Ave | | 0.4851 | | | | 1.9 | | 15.0 | | | |
| 1,1,2-Trichloroethane | 0.3183<br>0.3219 | 0.3342 | 0.3260 | 0.3166 | 0.3252 | Ave | | 0.3237 | | | | 2.0 | | 15.0 | | | |
| 1,3-Dichloropropane | 0.6083<br>0.5863 | 0.5978 | 0.5892 | 0.5773 | 0.5741 | Ave | | 0.5888 | | | | 2.2 | | 15.0 | | | |
| Tetrachloroethene | 0.3474<br>0.3368 | 0.3423 | 0.3240 | 0.3284 | 0.3357 | Ave | | 0.3358 | | | | 2.6 | | 15.0 | | | |
| 2-Hexanone | 0.1862<br>0.1696 | 0.1861 | 0.1923 | 0.1778 | 0.1837 | Ave | | 0.1826 | | | | 4.3 | | 15.0 | | | |
| Dibromochloromethane | 0.3454<br>0.3729 | 0.3489 | 0.3391 | 0.3531 | 0.3605 | Ave | | 0.3533 | | | | 3.4 | | 15.0 | | | |
| 1,2-Dibromoethane | 0.3265<br>0.3291 | 0.3332 | 0.3338 | 0.3265 | 0.3336 | Ave | | 0.3304 | | | | 1.1 | | 15.0 | | | |
| Chlorobenzene | 1.1352<br>1.1157 | 1.0657 | 1.0775 | 1.0492 | 1.0730 | Ave | | 1.0860 | | | 0.3000 | 3.0 | | 15.0 | | | |
| 1,1,1,2-Tetrachloroethane | 0.3610<br>0.3689 | 0.3490 | 0.3624 | 0.3468 | 0.3648 | Ave | | 0.3588 | | | | 2.5 | | 15.0 | | | |
| Ethylbenzene | 0.6471<br>0.6012 | 0.5717 | 0.5866 | 0.5657 | 0.5993 | Ave | | 0.5952 | | | | 4.9 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13070-1 Analy Batch No.: 47806

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2012 13:56 Calibration End Date: 06/19/2012 15:49 Calibration ID: 9354

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| m-Xylene & p-Xylene | 0.7514<br>0.7563 | 0.7162 | 0.7194 | 0.7116 | 0.7351 | Ave | | 0.7317 | | | | 2.6 | | 15.0 | | | |
| o-Xylene | 0.7188<br>0.6877 | 0.6968 | 0.6813 | 0.6655 | 0.6778 | Ave | | 0.6880 | | | | 2.7 | | 15.0 | | | |
| Styrene | 1.1931<br>1.1812 | 1.1166 | 1.1501 | 1.1249 | 1.1714 | Ave | | 1.1562 | | | | 2.7 | | 15.0 | | | |
| Bromoform | 0.1696<br>0.1758 | 0.1756 | 0.1682 | 0.1834 | 0.1844 | Ave | | 0.1762 | | | 0.1000 | 3.8 | | 15.0 | | | |
| Isopropylbenzene | 1.6949<br>1.6644 | 1.6381 | 1.6453 | 1.6206 | 1.6542 | Ave | | 1.6529 | | | | 1.5 | | 15.0 | | | |
| 1,1,2,2-Tetrachloroethane | 0.8257<br>0.7345 | 0.8242 | 0.8369 | 0.7830 | 0.7938 | Ave | | 0.7997 | | | 0.3000 | 4.8 | | 15.0 | | | |
| Bromobenzene | 1.2416<br>1.1110 | 1.1784 | 1.1941 | 1.1215 | 1.1317 | Ave | | 1.1631 | | | | 4.3 | | 15.0 | | | |
| 1,2,3-Trichloropropane | 0.3185<br>0.2493 | 0.2993 | 0.2859 | 0.2707 | 0.2737 | Ave | | 0.2829 | | | | 8.5 | | 15.0 | | | |
| trans-1,4-Dichloro-2-butene | 0.1228<br>0.1409 | 0.1270 | 0.1345 | 0.1501 | 0.1523 | Ave | | 0.1379 | | | | 8.7 | | 15.0 | | | |
| n-Propylbenzene | 1.2972<br>1.2016 | 1.2518 | 1.2358 | 1.2105 | 1.2599 | Ave | | 1.2428 | | | | 2.8 | | 15.0 | | | |
| 2-Chlorotoluene | 1.1521<br>0.9515 | 1.0418 | 1.0579 | 0.9700 | 1.0061 | Ave | | 1.0299 | | | | 7.0 | | 15.0 | | | |
| 1,3,5-Trimethylbenzene | 3.3809<br>3.1612 | 3.3046 | 3.3624 | 3.2452 | 3.2844 | Ave | | 3.2898 | | | | 2.4 | | 15.0 | | | |
| 4-Chlorotoluene | 1.1135<br>0.9369 | 1.0086 | 1.0290 | 0.9518 | 0.9802 | Ave | | 1.0033 | | | | 6.4 | | 15.0 | | | |
| tert-Butylbenzene | 3.0687<br>2.6123 | 2.8660 | 2.8552 | 2.7333 | 2.7823 | Ave | | 2.8196 | | | | 5.4 | | 15.0 | | | |
| 1,2,4-Trimethylbenzene | 3.1603<br>2.8657 | 2.9825 | 3.0184 | 2.8782 | 2.9676 | Ave | | 2.9788 | | | | 3.6 | | 15.0 | | | |
| sec-Butylbenzene | 3.7057<br>3.2981 | 3.5130 | 3.5709 | 3.4328 | 3.4859 | Ave | | 3.5011 | | | | 3.9 | | 15.0 | | | |
| 1,3-Dichlorobenzene | 1.7023<br>1.5635 | 1.5498 | 1.5848 | 1.4870 | 1.5451 | Ave | | 1.5721 | | | | 4.6 | | 15.0 | | | |
| p-Isopropyltoluene | 2.8521<br>2.6145 | 2.5981 | 2.6987 | 2.5662 | 2.6202 | Ave | | 2.6583 | | | | 3.9 | | 15.0 | | | |
| 1,4-Dichlorobenzene | 1.6947<br>1.6237 | 1.6387 | 1.6396 | 1.5116 | 1.5711 | Ave | | 1.6132 | | | | 3.9 | | 15.0 | | | |
| n-Butylbenzene | 2.1341<br>2.2195 | 2.0519 | 2.1378 | 2.0439 | 2.1393 | Ave | | 2.1211 | | | | 3.1 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13070-1 Analy Batch No.: 47806

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2012 13:56 Calibration End Date: 06/19/2012 15:49 Calibration ID: 9354

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 1,2-Dichlorobenzene | 1.5587<br>1.5188 | 1.5024 | 1.5206 | 1.4546 | 1.5126 | Ave | | 1.5113 | | | | 2.2 | | 15.0 | | | |
| 1,2-Dibromo-3-Chloropropane | 0.1486<br>0.1346 | 0.1420 | 0.1545 | 0.1505 | 0.1574 | Ave | | 0.1479 | | | | 5.7 | | 15.0 | | | |
| 1,3,5-Trichlorobenzene | 1.1352<br>0.9729 | 1.0376 | 1.0366 | 0.9913 | 1.0399 | Ave | | 1.0356 | | | | 5.4 | | 15.0 | | | |
| 1,2,4-Trichlorobenzene | 0.9786<br>0.8311 | 0.9570 | 0.9797 | 0.9144 | 0.9479 | Ave | | 0.9348 | | | | 6.0 | | 15.0 | | | |
| Hexachlorobutadiene | 0.4364<br>0.3413 | 0.4088 | 0.4266 | 0.3927 | 0.4028 | Ave | | 0.4014 | | | | 8.3 | | 15.0 | | | |
| Naphthalene | 2.7074<br>1.9207 | 2.5124 | 2.5315 | 2.4135 | 2.4828 | Ave | | 2.4281 | | | | 11.0 | | 15.0 | | | |
| 1,2,3-Trichlorobenzene | 0.8793<br>0.6172 | 0.8643 | 0.8446 | 0.8098 | 0.8037 | Ave | | 0.8031 | | | | 12.0 | | 15.0 | | | |
| Dibromofluoromethane (Surr) | 0.2458<br>0.2472 | 0.2441 | 0.2480 | 0.2385 | 0.2336 | Ave | | 0.2429 | | | | 2.3 | | 15.0 | | | |
| 1,2-Dichloroethane-d4 (Surr) | 0.3370<br>0.2978 | 0.3172 | 0.3123 | 0.2895 | 0.2880 | Ave | | 0.3070 | | | | 6.2 | | 15.0 | | | |
| Toluene-d8 (Surr) | 1.5285<br>1.5297 | 1.4881 | 1.4794 | 1.4433 | 1.4491 | Ave | | 1.4863 | | | | 2.5 | | 15.0 | | | |
| 4-Bromofluorobenzene (Surr) | 0.4706<br>0.3986 | 0.4623 | 0.4434 | 0.4197 | 0.4166 | Ave | | 0.4352 | | | | 6.5 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-13070-1  Analy Batch No.: 47806

SDG No.:

Instrument ID: A3UX11  GC Column: DB-624  ID: 0.18(mm)  Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2012 16:12  Calibration End Date: 06/19/2012 18:05  Calibration ID: 9356

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-47806/15 | UXJ5163.D |
| Level 2 | STD2 240-47806/14 | UXJ5162.D |
| Level 3 | STD3 240-47806/13 | UXJ5161.D |
| Level 4 | STD4 240-47806/12 | UXJ5160.D |
| Level 5 | STD5 240-47806/11 | UXJ5159.D |
| Level 6 | STD6 240-47806/10 | UXJ5158.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Dichlorofluoromethane | 0.4341<br>0.4439 | 0.3941 | 0.4300 | 0.4461 | 0.4361 | Ave | | 0.4307 | | | | 4.4 | | 15.0 | | | |
| Ethyl ether | 0.2378<br>0.2309 | 0.2160 | 0.2258 | 0.2366 | 0.2286 | Ave | | 0.2293 | | | | 3.5 | | 15.0 | | | |
| 3-Chloro-1-propene | 0.1741<br>0.1569 | 0.1382 | 0.1536 | 0.1580 | 0.1545 | Ave | | 0.1559 | | | | 7.4 | | 15.0 | | | |
| Diisopropyl ether | 0.2821<br>0.2755 | 0.2580 | 0.2761 | 0.2778 | 0.2645 | Ave | | 0.2723 | | | | 3.3 | | 15.0 | | | |
| 2-Chloro-1,3-butadiene | 0.4405<br>0.4192 | 0.4037 | 0.4229 | 0.4258 | 0.4248 | Ave | | 0.4228 | | | | 2.8 | | 15.0 | | | |
| Ethyl-t-butyl ether (ETBE) | 0.9129<br>0.8715 | 0.8230 | 0.8835 | 0.8880 | 0.8464 | Ave | | 0.8709 | | | | 3.7 | | 15.0 | | | |
| Ethyl acetate | 0.2479<br>0.2118 | 0.2223 | 0.2195 | 0.2185 | 0.2141 | Ave | | 0.2224 | | | | 5.9 | | 15.0 | | | |
| Propionitrile | 0.0366<br>0.0330 | 0.0316 | 0.0320 | 0.0343 | 0.0342 | Ave | | 0.0336 | | | | 5.4 | | 15.0 | | | |
| Methacrylonitrile | 0.1672<br>0.1442 | 0.1452 | 0.1540 | 0.1524 | 0.1468 | Ave | | 0.1516 | | | | 5.7 | | 15.0 | | | |
| Isobutyl alcohol | 0.0106<br>0.0089 | 0.0104 | 0.0102 | 0.0100 | 0.0096 | Ave | | 0.0099 | | | | 6.1 | | 15.0 | | | |
| Tert-amyl-methyl ether (TAME) | 0.8891<br>0.8369 | 0.7654 | 0.8445 | 0.8497 | 0.8143 | Ave | | 0.8333 | | | | 4.9 | | 15.0 | | | |
| n-Heptane | 0.0533<br>0.0551 | 0.0772 | 0.0539 | 0.0543 | 0.0741 | Ave | | 0.0613 | | | | 18.0 | * | 15.0 | | | |
| n-Butanol | 0.0092<br>0.0086 | 0.0092 | 0.0095 | 0.0096 | 0.0090 | Ave | | 0.0092 | | | | 4.0 | | 15.0 | | | |
| Methyl methacrylate | 0.2440<br>0.2102 | 0.2148 | 0.2235 | 0.2231 | 0.2121 | Ave | | 0.2213 | | | | 5.6 | | 15.0 | | | |
| 2-Nitropropane | 0.0629<br>0.0605 | 0.0576 | 0.0614 | 0.0618 | 0.0613 | Ave | | 0.0609 | | | | 2.9 | | 15.0 | | | |

Note: The ml coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-13070-1 Analy Batch No.: 47806

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2012 16:12 Calibration End Date: 06/19/2012 18:05 Calibration ID: 9356

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Cyclohexanone | 0.0557<br>0.0554 | 0.0496 | 0.0637 | 0.0519 | 0.0525 | Ave | | 0.0548 | | | | 9.0 | | 15.0 | | | |
| 1,2,3-Trimethylbenzene | 2.9059<br>2.9272 | 2.6208 | 2.8103 | 2.7997 | 2.7150 | Ave | | 2.7965 | | | | 4.1 | | 15.0 | | | |
| 2-Methylnaphthalene | 1.0483<br>0.9270 | 0.9629 | 1.0012 | 0.9726 | 0.9623 | Ave | | 0.9791 | | | | 4.2 | | 15.0 | | | |
| n-Butyl acetate | 0.3624<br>0.3505 | 0.3413 | 0.3505 | 0.3514 | 0.3507 | Ave | | 0.3511 | | | | 1.9 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: ICV 240-47806/22  Calibration Date: 06/19/2012 20:44

Instrument ID: A3UX11  Calib Start Date: 06/19/2012 13:56

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 06/19/2012 15:49

Lab File ID: UXJ5170.D  Conc. Units: ug/L  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | Ave | 0.2193 | 0.2140 | | 9.76 | 10.0 | -2.4 | 50.0 |
| Chloromethane | Ave | 0.3689 | 0.3829 | 0.1000 | 10.4 | 10.0 | 3.8 | 50.0 |
| Vinyl chloride | Ave | 0.3502 | 0.3592 | | 10.3 | 10.0 | 2.5 | 20.0 |
| Bromomethane | Ave | 0.1107 | 0.1330 | | 12.0 | 10.0 | 20.2 | 50.0 |
| Chloroethane | Ave | 0.1211 | 0.1522 | | 12.6 | 10.0 | 25.7 | 50.0 |
| Trichlorofluoromethane | Ave | 0.3058 | 0.3171 | | 10.4 | 10.0 | 3.7 | 50.0 |
| Acrolein | Ave | 0.0370 | 0.0183 | | 14.8 | 30.0 | -50.7* | 50.0 |
| 1,1-Dichloroethene | Ave | 0.2471 | 0.2583 | | 10.5 | 10.0 | 4.5 | 20.0 |
| Acetone | Lin1 | | 0.0599 | | 19.5 | 20.0 | -2.5 | 50.0 |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | Ave | 0.1705 | 0.1786 | | 10.5 | 10.0 | 4.7 | 50.0 |
| Iodomethane | Ave | 0.3414 | 0.4092 | | 12.0 | 10.0 | 19.9 | 50.0 |
| Carbon disulfide | Ave | 0.8298 | 0.8210 | | 9.89 | 10.0 | -1.1 | 50.0 |
| Acetonitrile | Ave | 0.0250 | 0.0243 | | 29.2 | 30.0 | -2.8 | 50.0 |
| Methyl acetate | Ave | 0.1703 | 0.1819 | | 10.7 | 10.0 | 6.8 | 50.0 |
| Methylene Chloride | Lin1 | | 0.2985 | | 10.5 | 10.0 | 5.0 | 50.0 |
| tert-Butyl alcohol | Ave | 0.0192 | 0.0176 | | 183 | 200 | -8.4 | 50.0 |
| Acrylonitrile | Ave | 0.0882 | 0.0872 | | 29.7 | 30.0 | -1.2 | 50.0 |
| Methyl tert-butyl ether | Ave | 0.7903 | 0.7848 | | 9.93 | 10.0 | -0.7 | 50.0 |
| trans-1,2-Dichloroethene | Ave | 0.2847 | 0.2848 | | 10.0 | 10.0 | 0.0 | 50.0 |
| Hexane | Ave | 0.0640 | 0.0536 | | 8.37 | 10.0 | -16.3 | 20.0 |
| 1,1-Dichloroethane | Ave | 0.4733 | 0.4838 | 0.1000 | 10.2 | 10.0 | 2.2 | 50.0 |
| Vinyl acetate | Ave | 0.0566 | 0.0541 | | 9.56 | 10.0 | -4.4 | 50.0 |
| 2-Butanone | Ave | 0.0970 | 0.0901 | | 18.6 | 20.0 | -7.2 | 50.0 |
| 2,2-Dichloropropane | Ave | 0.2808 | 0.2620 | | 9.33 | 10.0 | -6.7 | 50.0 |
| cis-1,2-Dichloroethene | Ave | 0.3122 | 0.3099 | | 9.93 | 10.0 | -0.7 | 50.0 |
| Bromochloromethane | Ave | 0.1462 | 0.1457 | | 9.96 | 10.0 | -0.4 | 50.0 |
| Tetrahydrofuran | Ave | 0.0649 | 0.0613 | | 9.45 | 10.0 | -5.5 | 50.0 |
| Chloroform | Ave | 0.4817 | 0.4690 | | 9.74 | 10.0 | -2.6 | 20.0 |
| 1,1,1-Trichloroethane | Ave | 0.3730 | 0.3719 | | 9.97 | 10.0 | -0.3 | 50.0 |
| Cyclohexane | Ave | 0.4268 | 0.3686 | | 8.64 | 10.0 | -13.6 | 50.0 |
| 1,1-Dichloropropene | Ave | 0.3899 | 0.3719 | | 9.54 | 10.0 | -4.6 | 50.0 |
| Carbon tetrachloride | Ave | 0.3178 | 0.3138 | | 9.87 | 10.0 | -1.3 | 50.0 |
| 1,2-Dichloroethane | Ave | 0.3562 | 0.3606 | | 10.1 | 10.0 | 1.2 | 50.0 |
| Benzene | Ave | 1.183 | 1.178 | | 9.96 | 10.0 | -0.4 | 50.0 |
| Trichloroethene | Ave | 0.3055 | 0.3050 | | 9.99 | 10.0 | -0.1 | 50.0 |
| 1,2-Dichloropropane | Ave | 0.2795 | 0.2787 | | 9.97 | 10.0 | -0.3 | 20.0 |
| Methylcyclohexane | Ave | 0.4249 | 0.3361 | | 7.91 | 10.0 | -20.9 | 50.0 |
| Dibromomethane | Ave | 0.1563 | 0.1662 | | 10.6 | 10.0 | 6.4 | 50.0 |
| Bromodichloromethane | Ave | 0.3538 | 0.3626 | | 10.2 | 10.0 | 2.5 | 50.0 |
| 2-Chloroethyl vinyl ether | Ave | 0.1684 | 0.1622 | | 9.63 | 10.0 | -3.7 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: ICV 240-47806/22  Calibration Date: 06/19/2012 20:44

Instrument ID: A3UX11  Calib Start Date: 06/19/2012 13:56

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 06/19/2012 15:49

Lab File ID: UXJ5170.D  Conc. Units: ug/L  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | Ave | 0.4589 | 0.4435 | | 9.67 | 10.0 | -3.3 | 50.0 |
| 4-Methyl-2-pentanone | Ave | 0.2026 | 0.1994 | | 19.7 | 20.0 | -1.6 | 50.0 |
| Toluene | Ave | 1.788 | 1.732 | | 9.68 | 10.0 | -3.2 | 20.0 |
| trans-1,3-Dichloropropene | Ave | 0.5575 | 0.5338 | | 9.58 | 10.0 | -4.2 | 50.0 |
| 1,1,2-Trichloroethane | Ave | 0.3237 | 0.3315 | | 10.2 | 10.0 | 2.4 | 50.0 |
| 1,3-Dichloropropane | Ave | 0.5888 | 0.5821 | | 9.89 | 10.0 | -1.1 | 50.0 |
| Tetrachloroethene | Ave | 0.3358 | 0.3142 | | 9.36 | 10.0 | -6.4 | 50.0 |
| 2-Hexanone | Ave | 0.1826 | 0.1773 | | 19.4 | 20.0 | -2.9 | 50.0 |
| Dibromochloromethane | Ave | 0.3533 | 0.3417 | | 9.67 | 10.0 | -3.3 | 50.0 |
| 1,2-Dibromoethane | Ave | 0.3304 | 0.3290 | | 9.95 | 10.0 | -0.5 | 50.0 |
| Chlorobenzene | Ave | 1.086 | 1.069 | 0.3000 | 9.85 | 10.0 | -1.5 | 50.0 |
| 1,1,1,2-Tetrachloroethane | Ave | 0.3588 | 0.3674 | | 10.2 | 10.0 | 2.4 | 50.0 |
| Ethylbenzene | Ave | 0.5952 | 0.5732 | | 9.63 | 10.0 | -3.7 | 20.0 |
| m-Xylene & p-Xylene | Ave | 0.7317 | 0.7087 | | 19.4 | 20.0 | -3.1 | 50.0 |
| o-Xylene | Ave | 0.6880 | 0.6730 | | 9.78 | 10.0 | -2.2 | 50.0 |
| Styrene | Ave | 1.156 | 1.157 | | 10.0 | 10.0 | 0.0 | 50.0 |
| Bromoform | Ave | 0.1762 | 0.1737 | 0.1000 | 9.86 | 10.0 | -1.4 | 50.0 |
| Isopropylbenzene | Ave | 1.653 | 1.613 | | 9.76 | 10.0 | -2.4 | 50.0 |
| 1,1,2,2-Tetrachloroethane | Ave | 0.7997 | 0.7568 | 0.3000 | 9.46 | 10.0 | -5.4 | 50.0 |
| Bromobenzene | Ave | 1.163 | 1.150 | | 9.88 | 10.0 | -1.2 | 50.0 |
| 1,2,3-Trichloropropane | Ave | 0.2829 | 0.2828 | | 10.0 | 10.0 | -0.0 | 50.0 |
| trans-1,4-Dichloro-2-butene | Ave | 0.1379 | 0.1284 | | 18.6 | 20.0 | -6.9 | 50.0 |
| n-Propylbenzene | Ave | 1.243 | 1.209 | | 9.73 | 10.0 | -2.7 | 50.0 |
| 2-Chlorotoluene | Ave | 1.030 | 0.9918 | | 9.63 | 10.0 | -3.7 | 50.0 |
| 1,3,5-Trimethylbenzene | Ave | 3.290 | 3.248 | | 9.87 | 10.0 | -1.3 | 50.0 |
| 4-Chlorotoluene | Ave | 1.003 | 0.9464 | | 9.43 | 10.0 | -5.7 | 50.0 |
| tert-Butylbenzene | Ave | 2.820 | 2.680 | | 9.51 | 10.0 | -4.9 | 50.0 |
| 1,2,4-Trimethylbenzene | Ave | 2.979 | 2.958 | | 9.93 | 10.0 | -0.7 | 50.0 |
| sec-Butylbenzene | Ave | 3.501 | 3.273 | | 9.35 | 10.0 | -6.5 | 50.0 |
| 1,3-Dichlorobenzene | Ave | 1.572 | 1.492 | | 9.49 | 10.0 | -5.1 | 50.0 |
| p-Isopropyltoluene | Ave | 2.658 | 2.581 | | 9.71 | 10.0 | -2.9 | 50.0 |
| 1,4-Dichlorobenzene | Ave | 1.613 | 1.567 | | 9.71 | 10.0 | -2.9 | 50.0 |
| n-Butylbenzene | Ave | 2.121 | 1.923 | | 9.07 | 10.0 | -9.3 | 50.0 |
| 1,2-Dichlorobenzene | Ave | 1.511 | 1.468 | | 9.72 | 10.0 | -2.8 | 50.0 |
| 1,2-Dibromo-3-Chloropropane | Ave | 0.1479 | 0.1493 | | 10.1 | 10.0 | 0.9 | 50.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.9348 | 0.8561 | | 9.16 | 10.0 | -8.4 | 50.0 |
| Hexachlorobutadiene | Ave | 0.4014 | 0.3257 | | 8.11 | 10.0 | -18.9 | 50.0 |
| Naphthalene | Ave | 2.428 | 2.232 | | 9.19 | 10.0 | -8.1 | 50.0 |
| 1,2,3-Trichlorobenzene | Ave | 0.8031 | 0.7733 | | 9.63 | 10.0 | -3.7 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab Sample ID: ICV 240-47806/22 Calibration Date: 06/19/2012 20:44

Instrument ID: A3UX11 Calib Start Date: 06/19/2012 16:12

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/19/2012 18:05

Lab File ID: UXJ5170.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Ethyl ether | Ave | 0.2293 | 0.2259 | | 9.85 | 10.0 | -1.5 | 50.0 |
| Diisopropyl ether | Ave | 0.2723 | 0.2676 | | 9.83 | 10.0 | -1.7 | 50.0 |
| Isobutyl alcohol | Ave | 0.0099 | 0.0082 | | 410 | 500 | -18.0 | 50.0 |
| Cyclohexanone | Ave | 0.0548 | 0.0193 | | 70.6 | 200 | -64.7* | 50.0 |
| 1,2,3-Trimethylbenzene | Ave | 2.796 | 2.767 | | 9.90 | 10.0 | -1.0 | 50.0 |

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab File ID: BFB015.D BFB Injection Date: 07/13/2012

Instrument ID: A3UX11 BFB Injection Time: 11:28

Analysis Batch No.: 50744

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 50 | 15.0 - 40.0 % of mass 95 | 15.3 | |
| 75 | 30.0 - 60.0 % of mass 95 | 45.2 | |
| 95 | Base Peak, 100% relative abundance | 100.0 | |
| 96 | 5.0 - 9.0 % of mass 95 | 6.7 | |
| 173 | Less than 2.0 % of mass 174 | 0.0 | (0.0)1 |
| 174 | 50.0 - 120.00 % of mass 95 | 74.8 | |
| 175 | 5.0 - 9.0 % of mass 174 | 4.3 | (5.8)1 |
| 176 | 95.0 - 101.0 % of mass 174 | 72.9 | (97.4)1 |
| 177 | 5.0 - 9.0 % of mass 176 | 4.9 | (6.7)2 |

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | CCVIS 240-50744/2 | UXJ5765.D | 07/13/2012 | 11:51 |
| | CCV 240-50744/3 | UXJ5766.D | 07/13/2012 | 12:14 |
| | LCS 240-50744/4 | UXJ5767.D | 07/13/2012 | 12:36 |
| | MB 240-50744/5 | UXJ5768.D | 07/13/2012 | 12:59 |
| | 240-13078-A-2 MS | UXJ5771.D | 07/13/2012 | 15:08 |
| | 240-13078-D-2 MSD | UXJ5772.D | 07/13/2012 | 15:31 |
| TB-071012 | 240-13070-1 | UXJ5774.D | 07/13/2012 | 16:16 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCVIS 240-50744/2 Calibration Date: 07/13/2012 11:51

Instrument ID: A3UX11 Calib Start Date: 06/19/2012 13:56

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/19/2012 15:49

Lab File ID: UXJ5765.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | Ave | 0.2193 | 0.2371 | | 10.8 | 10.0 | 8.1 | 50.0 |
| Chloromethane | Ave | 0.3689 | 0.3354 | 0.1000 | 9.09 | 10.0 | -9.1 | 50.0 |
| Vinyl chloride | Ave | 0.3502 | 0.3401 | | 9.71 | 10.0 | -2.9 | 20.0 |
| Bromomethane | Ave | 0.1107 | 0.1278 | | 11.5 | 10.0 | 15.5 | 50.0 |
| Chloroethane | Ave | 0.1211 | 0.1140 | | 9.42 | 10.0 | -5.8 | 50.0 |
| Trichlorofluoromethane | Ave | 0.3058 | 0.2917 | | 9.54 | 10.0 | -4.6 | 50.0 |
| Acrolein | Ave | 0.0370 | 0.0237 | | 64.1 | 100 | -35.9 | 50.0 |
| Acetone | Lin1 | | 0.0608 | | 19.8 | 20.0 | -1.0 | 50.0 |
| 1,1-Dichloroethene | Ave | 0.2471 | 0.2343 | | 9.48 | 10.0 | -5.2 | 20.0 |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | Ave | 0.1705 | 0.1675 | | 9.82 | 10.0 | -1.8 | 50.0 |
| Iodomethane | Ave | 0.3414 | 0.3137 | | 9.19 | 10.0 | -8.1 | 50.0 |
| Carbon disulfide | Ave | 0.8298 | 0.7560 | | 9.11 | 10.0 | -8.9 | 50.0 |
| Acetonitrile | Ave | 0.0250 | 0.0247 | | 99.0 | 100 | -1.0 | 50.0 |
| Methyl acetate | Ave | 0.1703 | 0.1606 | | 18.9 | 20.0 | -5.7 | 50.0 |
| Methylene Chloride | Lin1 | | 0.2470 | | 8.55 | 10.0 | -14.5 | 50.0 |
| tert-Butyl alcohol | Ave | 0.0192 | 0.0160 | | 166 | 200 | -16.8 | 50.0 |
| Acrylonitrile | Ave | 0.0882 | 0.0853 | | 19.3 | 20.0 | -3.3 | 50.0 |
| Methyl tert-butyl ether | Ave | 0.7903 | 0.6863 | | 8.68 | 10.0 | -13.2 | 50.0 |
| trans-1,2-Dichloroethene | Ave | 0.2847 | 0.2604 | | 9.15 | 10.0 | -8.5 | 50.0 |
| Hexane | Ave | 0.0640 | 0.0619 | | 9.68 | 10.0 | -3.2 | 20.0 |
| 1,1-Dichloroethane | Ave | 0.4733 | 0.4207 | 0.1000 | 8.89 | 10.0 | -11.1 | 50.0 |
| Vinyl acetate | Ave | 0.0566 | 0.0425 | | 7.52 | 10.0 | -24.8 | 50.0 |
| 2-Butanone | Ave | 0.0970 | 0.0886 | | 18.3 | 20.0 | -8.7 | 50.0 |
| cis-1,2-Dichloroethene | Ave | 0.3122 | 0.2809 | | 9.00 | 10.0 | -10.0 | 50.0 |
| 2,2-Dichloropropane | Ave | 0.2808 | 0.2327 | | 8.29 | 10.0 | -17.1 | 50.0 |
| Bromochloromethane | Ave | 0.1462 | 0.1375 | | 9.40 | 10.0 | -6.0 | 50.0 |
| Tetrahydrofuran | Ave | 0.0649 | 0.0687 | | 10.6 | 10.0 | 5.9 | 50.0 |
| Chloroform | Ave | 0.4817 | 0.4178 | | 8.67 | 10.0 | -13.3 | 20.0 |
| 1,1,1-Trichloroethane | Ave | 0.3730 | 0.3212 | | 8.61 | 10.0 | -13.9 | 50.0 |
| Cyclohexane | Ave | 0.4268 | 0.3959 | | 9.28 | 10.0 | -7.2 | 50.0 |
| 1,1-Dichloropropene | Ave | 0.3899 | 0.3433 | | 8.80 | 10.0 | -12.0 | 50.0 |
| Carbon tetrachloride | Ave | 0.3178 | 0.2848 | | 8.96 | 10.0 | -10.4 | 50.0 |
| 1,2-Dichloroethane | Ave | 0.3562 | 0.3069 | | 8.62 | 10.0 | -13.8 | 50.0 |
| Benzene | Ave | 1.183 | 1.051 | | 8.89 | 10.0 | -11.1 | 50.0 |
| Trichloroethene | Ave | 0.3055 | 0.2830 | | 9.26 | 10.0 | -7.4 | 50.0 |
| 1,2-Dichloropropane | Ave | 0.2795 | 0.2448 | | 8.76 | 10.0 | -12.4 | 20.0 |
| Methylcyclohexane | Ave | 0.4249 | 0.4039 | | 9.51 | 10.0 | -4.9 | 50.0 |
| Dibromomethane | Ave | 0.1563 | 0.1449 | | 9.27 | 10.0 | -7.3 | 50.0 |
| 1,4-Dioxane | Ave | 0.0026 | 0.0022 | | 420 | 500 | -16.0 | 50.0 |
| Bromodichloromethane | Ave | 0.3538 | 0.3113 | | 8.80 | 10.0 | -12.0 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCVIS 240-50744/2  Calibration Date: 07/13/2012 11:51

Instrument ID: A3UX11  Calib Start Date: 06/19/2012 13:56

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 06/19/2012 15:49

Lab File ID: UXJ5765.D  Conc. Units: ug/L  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 2-Chloroethyl vinyl ether | Ave | 0.1684 | 0.1583 | | 18.8 | 20.0 | -6.0 | 50.0 |
| cis-1,3-Dichloropropene | Ave | 0.4589 | 0.4138 | | 9.02 | 10.0 | -9.8 | 50.0 |
| 4-Methyl-2-pentanone | Ave | 0.2026 | 0.1805 | | 17.8 | 20.0 | -10.9 | 50.0 |
| Toluene | Ave | 1.788 | 1.600 | | 8.95 | 10.0 | -10.5 | 20.0 |
| trans-1,3-Dichloropropene | Ave | 0.5575 | 0.4890 | | 8.77 | 10.0 | -12.3 | 50.0 |
| Ethyl methacrylate | Ave | 0.4851 | 0.4360 | | 8.99 | 10.0 | -10.1 | 50.0 |
| 1,1,2-Trichloroethane | Ave | 0.3237 | 0.2962 | | 9.15 | 10.0 | -8.5 | 50.0 |
| 1,3-Dichloropropane | Ave | 0.5888 | 0.5276 | | 8.96 | 10.0 | -10.4 | 50.0 |
| Tetrachloroethene | Ave | 0.3358 | 0.3198 | | 9.53 | 10.0 | -4.7 | 50.0 |
| 2-Hexanone | Ave | 0.1826 | 0.1621 | | 17.8 | 20.0 | -11.2 | 50.0 |
| Dibromochloromethane | Ave | 0.3533 | 0.3352 | | 9.49 | 10.0 | -5.1 | 50.0 |
| 1,2-Dibromoethane | Ave | 0.3304 | 0.3074 | | 9.30 | 10.0 | -7.0 | 50.0 |
| Chlorobenzene | Ave | 1.086 | 1.001 | 0.3000 | 9.22 | 10.0 | -7.8 | 50.0 |
| 1,1,1,2-Tetrachloroethane | Ave | 0.3588 | 0.3408 | | 9.50 | 10.0 | -5.0 | 50.0 |
| Ethylbenzene | Ave | 0.5952 | 0.5283 | | 8.87 | 10.0 | -11.3 | 20.0 |
| m-Xylene & p-Xylene | Ave | 0.7317 | 0.6884 | | 18.8 | 20.0 | -5.9 | 50.0 |
| o-Xylene | Ave | 0.6880 | 0.6408 | | 9.31 | 10.0 | -6.9 | 50.0 |
| Styrene | Ave | 1.156 | 1.104 | | 9.55 | 10.0 | -4.5 | 50.0 |
| Bromoform | Ave | 0.1762 | 0.1880 | 0.1000 | 10.7 | 10.0 | 6.7 | 50.0 |
| Isopropylbenzene | Ave | 1.653 | 1.545 | | 9.34 | 10.0 | -6.6 | 50.0 |
| 1,1,2,2-Tetrachloroethane | Ave | 0.7997 | 0.7109 | 0.3000 | 8.89 | 10.0 | -11.1 | 50.0 |
| Bromobenzene | Ave | 1.163 | 1.090 | | 9.37 | 10.0 | -6.3 | 50.0 |
| 1,2,3-Trichloropropane | Ave | 0.2829 | 0.2601 | | 9.19 | 10.0 | -8.1 | 50.0 |
| trans-1,4-Dichloro-2-butene | Ave | 0.1379 | 0.1799 | | 13.0 | 10.0 | 30.4 | 50.0 |
| n-Propylbenzene | Ave | 1.243 | 1.151 | | 9.26 | 10.0 | -7.4 | 50.0 |
| 2-Chlorotoluene | Ave | 1.030 | 0.9481 | | 9.21 | 10.0 | -7.9 | 50.0 |
| 1,3,5-Trimethylbenzene | Ave | 3.290 | 3.097 | | 9.41 | 10.0 | -5.9 | 50.0 |
| 4-Chlorotoluene | Ave | 1.003 | 0.9724 | | 9.69 | 10.0 | -3.1 | 50.0 |
| tert-Butylbenzene | Ave | 2.820 | 2.643 | | 9.37 | 10.0 | -6.3 | 50.0 |
| 1,2,4-Trimethylbenzene | Ave | 2.979 | 2.855 | | 9.58 | 10.0 | -4.2 | 50.0 |
| sec-Butylbenzene | Ave | 3.501 | 3.307 | | 9.44 | 10.0 | -5.6 | 50.0 |
| 1,3-Dichlorobenzene | Ave | 1.572 | 1.354 | | 8.61 | 10.0 | -13.9 | 50.0 |
| p-Isopropyltoluene | Ave | 2.658 | 2.450 | | 9.21 | 10.0 | -7.9 | 50.0 |
| 1,4-Dichlorobenzene | Ave | 1.613 | 1.401 | | 8.69 | 10.0 | -13.1 | 50.0 |
| n-Butylbenzene | Ave | 2.121 | 1.745 | | 8.23 | 10.0 | -17.7 | 50.0 |
| 1,2-Dichlorobenzene | Ave | 1.511 | 1.256 | | 8.31 | 10.0 | -16.9 | 50.0 |
| 1,2-Dibromo-3-Chloropropane | Ave | 0.1479 | 0.1159 | | 7.83 | 10.0 | -21.7 | 50.0 |
| 1,3,5-Trichlorobenzene | Ave | 1.036 | 0.8806 | | 8.50 | 10.0 | -15.0 | 50.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.9348 | 0.8005 | | 8.56 | 10.0 | -14.4 | 50.0 |
| Hexachlorobutadiene | Ave | 0.4014 | 0.3282 | | 8.18 | 10.0 | -18.2 | 50.0 |
| Naphthalene | Ave | 2.428 | 1.660 | | 6.84 | 10.0 | -31.6 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCVIS 240-50744/2  Calibration Date: 07/13/2012 11:51

Instrument ID: A3UX11  Calib Start Date: 06/19/2012 13:56

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 06/19/2012 15:49

Lab File ID: UXJ5765.D  Conc. Units: ug/L  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 1,2,3-Trichlorobenzene | Ave | 0.8031 | 0.6494 | | 8.09 | 10.0 | -19.1 | 50.0 |
| Dibromofluoromethane (Surr) | Ave | 0.2429 | 0.2393 | | 8.22 | 8.34 | -1.5 | 50.0 |
| 1,2-Dichloroethane-d4 (Surr) | Ave | 0.3070 | 0.2762 | | 7.50 | 8.34 | -10.0 | 50.0 |
| Toluene-d8 (Surr) | Ave | 1.486 | 1.486 | | 8.34 | 8.34 | -0.0 | 50.0 |
| 4-Bromofluorobenzene (Surr) | Ave | 0.4352 | 0.4795 | | 9.19 | 8.34 | 10.2 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCV 240-50744/3 Calibration Date: 07/13/2012 12:14

Instrument ID: A3UX11 Calib Start Date: 06/19/2012 13:56

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/19/2012 15:49

Lab File ID: UXJ5766.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dibromofluoromethane (Surr) | Ave | 0.2429 | 0.2369 | | 8.14 | 8.34 | -2.5 | 50.0 |
| 1,2-Dichloroethane-d4 (Surr) | Ave | 0.3070 | 0.2602 | | 7.07 | 8.34 | -15.3 | 50.0 |
| Toluene-d8 (Surr) | Ave | 1.486 | 1.417 | | 7.95 | 8.34 | -4.6 | 50.0 |
| 4-Bromofluorobenzene (Surr) | Ave | 0.4352 | 0.4644 | | 8.90 | 8.34 | 6.7 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: CCV 240-50744/3  Calibration Date: 07/13/2012 12:14

Instrument ID: A3UX11  Calib Start Date: 06/19/2012 16:12

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 06/19/2012 18:05

Lab File ID: UXJ5766.D  Conc. Units: ug/L  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorofluoromethane | Ave | 0.4307 | 0.3554 | | 8.25 | 10.0 | -17.5 | 50.0 |
| Ethyl ether | Ave | 0.2293 | 0.1873 | | 8.17 | 10.0 | -18.3 | 50.0 |
| 3-Chloro-1-propene | Ave | 0.1559 | 0.1251 | | 8.03 | 10.0 | -19.7 | 50.0 |
| Diisopropyl ether | Ave | 0.2723 | 0.2373 | | 43.6 | 50.0 | -12.9 | 50.0 |
| 2-Chloro-1,3-butadiene | Ave | 0.4228 | 0.3403 | | 8.05 | 10.0 | -19.5 | 50.0 |
| Ethyl-t-butyl ether (ETBE) | Ave | 0.8709 | 0.7163 | | 8.22 | 10.0 | -17.8 | 50.0 |
| Ethyl acetate | Ave | 0.2224 | 0.1742 | | 15.7 | 20.0 | -21.7 | 50.0 |
| Propionitrile | Ave | 0.0336 | 0.0289 | | 17.2 | 20.0 | -14.0 | 50.0 |
| Methacrylonitrile | Ave | 0.1516 | 0.1186 | | 7.82 | 10.0 | -21.8 | 50.0 |
| Isobutyl alcohol | Ave | 0.0099 | 0.0078 | | 157 | 200 | -21.4 | 50.0 |
| Tert-amyl-methyl ether (TAME) | Ave | 0.8333 | 0.7077 | | 8.49 | 10.0 | -15.1 | 50.0 |
| n-Heptane | Ave | 0.0613 | 0.0625 | | 10.2 | 10.0 | 1.8 | 50.0 |
| n-Butanol | Ave | 0.0092 | 0.0068 | | 148 | 200 | -26.1 | 50.0 |
| Methyl methacrylate | Ave | 0.2213 | 0.1804 | | 8.15 | 10.0 | -18.5 | 50.0 |
| 2-Nitropropane | Ave | 0.0609 | 0.0466 | | 15.3 | 20.0 | -23.5 | 50.0 |
| Cyclohexanone | Ave | 0.0548 | 0.0509 | | 92.9 | 100 | -7.1 | 50.0 |
| 1,2,3-Trimethylbenzene | Ave | 2.796 | 2.536 | | 9.07 | 10.0 | -9.3 | 50.0 |
| 2-Methylnaphthalene | Ave | 0.9791 | 0.4893 | | 10.0 | 20.0 | -50.0 | 50.0 |

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab File ID: UXJ5768.D Lab Sample ID: MB 240-50744/5

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX11 Date Analyzed: 07/13/2012 12:59

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| | LCS 240-50744/4 | UXJ5767.D | 07/13/2012 12:36 |
| | 240-13078-A-2 MS | UXJ5771.D | 07/13/2012 15:08 |
| | 240-13078-D-2 MSD | UXJ5772.D | 07/13/2012 15:31 |
| TB-071012 | 240-13070-1 | UXJ5774.D | 07/13/2012 16:16 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13070-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-50744/5

Matrix: Water | Lab File ID: UXJ5768.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2012 12:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 50744 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.23 |
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 1.0 | 0.22 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.18 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trichfluoroeth ane | 1.0 | U | 1.0 | 0.28 |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.15 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.19 |
| 563-58-6 | 1,1-Dichloropropene | 1.0 | U | 1.0 | 0.13 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 1.0 | 0.17 |
| 96-18-4 | 1,2,3-Trichloropropane | 1.0 | U | 1.0 | 0.43 |
| 526-73-8 | 1,2,3-Trimethylbenzene | 5.0 | U | 5.0 | 0.0059 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.15 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.12 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 2.0 | U | 2.0 | 0.67 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.13 |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.22 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.18 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.14 |
| 142-28-9 | 1,3-Dichloropropane | 1.0 | U | 1.0 | 0.16 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.13 |
| 594-20-7 | 2,2-Dichloropropane | 1.0 | U | 1.0 | 0.13 |
| 110-75-8 | 2-Chloroethyl vinyl ether | 10 | U | 10 | 0.99 |
| 95-49-8 | 2-Chlorotoluene | 1.0 | U | 1.0 | 0.11 |
| 591-78-6 | 2-Hexanone | 10 | U | 10 | 0.41 |
| 106-43-4 | 4-Chlorotoluene | 1.0 | U | 1.0 | 0.18 |
| 67-64-1 | Acetone | 10 | U | 10 | 1.1 |
| 71-43-2 | Benzene | 1.0 | U | 1.0 | 0.13 |
| 108-86-1 | Bromobenzene | 1.0 | U | 1.0 | 0.13 |
| 74-97-5 | Bromochloromethane | 1.0 | U | 1.0 | 0.29 |
| 75-25-2 | Bromoform | 1.0 | U | 1.0 | 0.64 |
| 74-83-9 | Bromomethane | 1.0 | U | 1.0 | 0.41 |
| 75-15-0 | Carbon disulfide | 1.0 | U | 1.0 | 0.13 |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 1.0 | 0.13 |
| 108-90-7 | Chlorobenzene | 1.0 | U | 1.0 | 0.15 |
| 75-00-3 | Chloroethane | 1.0 | U | 1.0 | 0.29 |
| 67-66-3 | Chloroform | 1.0 | U | 1.0 | 0.16 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-13070-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-50744/5

Matrix: Water | Lab File ID: UXJ5768.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/13/2012 12:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 50744 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | 1.0 | U | 1.0 | 0.30 |
| 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.17 |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 1.0 | 0.15 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.14 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.24 |
| 74-95-3 | Dibromomethane | 1.0 | U | 1.0 | 0.28 |
| 75-71-8 | Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.31 |
| 108-20-3 | Diisopropyl ether | 10 | U | 10 | 1.5 |
| 100-41-4 | Ethylbenzene | 1.0 | U | 1.0 | 0.17 |
| 87-68-3 | Hexachlorobutadiene | 1.0 | U | 1.0 | 0.30 |
| 98-82-8 | Isopropylbenzene | 1.0 | U | 1.0 | 0.13 |
| 78-93-3 | 2-Butanone | 10 | U | 10 | 0.57 |
| 108-10-1 | 4-Methyl-2-pentanone | 10 | U | 10 | 0.32 |
| 179601-23-1 | m-Xylene & p-Xylene | 2.0 | U | 2.0 | 0.24 |
| 1634-04-4 | Methyl tert-butyl ether | 5.0 | U | 5.0 | 0.17 |
| 91-20-3 | Naphthalene | 1.0 | U | 1.0 | 0.24 |
| 104-51-8 | n-Butylbenzene | 1.0 | U | 1.0 | 0.12 |
| 75-09-2 | Methylene Chloride | 1.0 | U | 1.0 | 0.33 |
| 103-65-1 | n-Propylbenzene | 1.0 | U | 1.0 | 0.14 |
| 95-47-6 | o-Xylene | 1.0 | U | 1.0 | 0.14 |
| 99-87-6 | p-Isopropyltoluene | 1.0 | U | 1.0 | 0.12 |
| 135-98-8 | sec-Butylbenzene | 1.0 | U | 1.0 | 0.13 |
| 637-92-3 | Ethyl-t-butyl ether (ETBE) | 5.0 | U | 5.0 | 0.11 |
| 100-42-5 | Styrene | 1.0 | U | 1.0 | 0.11 |
| 994-05-8 | Tert-amyl-methyl ether (TAME) | 5.0 | U | 5.0 | 0.067 |
| 98-06-6 | tert-Butylbenzene | 1.0 | U | 1.0 | 0.13 |
| 127-18-4 | Tetrachloroethene | 1.0 | U | 1.0 | 0.29 |
| 108-88-3 | Toluene | 1.0 | U | 1.0 | 0.13 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.19 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.19 |
| 79-01-6 | Trichloroethene | 1.0 | U | 1.0 | 0.17 |
| 75-69-4 | Trichlorofluoromethane | 1.0 | U | 1.0 | 0.21 |
| 75-65-0 | tert-Butyl alcohol | 50 | U | 50 | 3.9 |
| 108-05-4 | Vinyl acetate | 2.0 | U | 2.0 | 0.19 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 1.0 | 0.22 |
| 124-48-1 | Dibromochloromethane | 1.0 | U | 1.0 | 0.18 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Client Sample ID:  Lab Sample ID: MB 240-50744/5

Matrix: Water  Lab File ID: UXJ5768.D

Analysis Method: 8260B  Date Collected:

Sample wt/vol: 5(mL)  Date Analyzed: 07/13/2012 12:59

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 50744  Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 1330-20-7 | Xylenes, Total | 2.0 | U | 2.0 | 0.28 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 85 | | 63-129 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 108 | | 66-117 |
| 2037-26-5 | Toluene-d8 (Surr) | 97 | | 74-115 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 97 | | 75-121 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Client Sample ID:  Lab Sample ID: MB 240-50744/5

Matrix: Water  Lab File ID: UXJ5768.D

Analysis Method: 8260B  Date Collected:

Sample wt/vol: 5(mL)  Date Analyzed: 07/13/2012 12:59

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624 ID: 0.18(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 50744  Units: ug/L

Number TICs Found: 1  TIC Result Total: 2.26

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| | Tentatively Identified Compound | | None | |
| 109-99-9 | Tetrahydrofuran | 4.41 | 2.26 | J |

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab File ID: BFB1767.D  BFB Injection Date: 02/07/2012

Instrument ID: A3UX12  BFB Injection Time: 19:19

Analysis Batch No.: 33074

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 50 | 15.0 - 40.0 % of mass 95 | 16.8 | |
| 75 | 30.0 - 60.0 % of mass 95 | 43.6 | |
| 95 | Base Peak, 100% relative abundance | 100.0 | |
| 96 | 5.0 - 9.0 % of mass 95 | 6.4 | |
| 173 | Less than 2.0 % of mass 174 | 0.0 | (0.0)1 |
| 174 | 50.0 - 120.00 % of mass 95 | 73.0 | |
| 175 | 5.0 - 9.0 % of mass 174 | 5.8 | (7.9)1 |
| 176 | 95.0 - 101.0 % of mass 174 | 69.6 | (95.3)1 |
| 177 | 5.0 - 9.0 % of mass 176 | 4.7 | (6.8)2 |

1-Value is % mass 174  2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | STD8260 240-33074/4 | UX122177.D | 02/07/2012 | 20:19 |
| | STD8260 240-33074/5 | UX122178.D | 02/07/2012 | 20:43 |
| | STD8260 240-33074/6 | UX122179.D | 02/07/2012 | 21:09 |
| | STD8260 240-33074/7 | UX122180.D | 02/07/2012 | 21:34 |
| | STD8260 240-33074/8 | UX122181.D | 02/07/2012 | 21:58 |
| | STD8260 240-33074/9 | UX122182.D | 02/07/2012 | 22:23 |
| | ICV 240-33074/15 | UX122188.D | 02/08/2012 | 00:54 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-13070-1  Analy Batch No.: 33074

SDG No.:

Instrument ID: A3UX12  GC Column: DB-624  ID: 0.18(mm)  Heated Purge: (Y/N) N

Calibration Start Date: 02/07/2012 20:19  Calibration End Date: 02/07/2012 22:23  Calibration ID: 6865

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD8260 240-33074/4 | UX122177.D |
| Level 2 | STD8260 240-33074/5 | UX122178.D |
| Level 3 | STD8260 240-33074/6 | UX122179.D |
| Level 4 | STD8260 240-33074/7 | UX122180.D |
| Level 5 | STD8260 240-33074/8 | UX122181.D |
| Level 6 | STD8260 240-33074/9 | UX122182.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Dichlorodifluoromethane | 0.1630 | 0.1529 | 0.1358 | 0.1607 | 0.1745 | Ave | | 0.1574 | | | | 9.1 | | 15.0 | | | |
| Chloromethane | 0.3331<br>0.2369 | 0.2670 | 0.2268 | 0.2588 | 0.2564 | Ave | | 0.2632 | | | 0.1000 | 14.0 | | 15.0 | | | |
| Vinyl chloride | 0.3098<br>0.3082 | 0.3159 | 0.2929 | 0.3237 | 0.3326 | Ave | | 0.3139 | | | | 4.4 | | 15.0 | | | |
| Bromomethane | 0.1786<br>0.1827 | 0.1761 | 0.1658 | 0.1753 | 0.1861 | Ave | | 0.1774 | | | | 3.9 | | 15.0 | | | |
| Chloroethane | 0.2010<br>0.1993 | 0.1840 | 0.1891 | 0.2071 | 0.2093 | Ave | | 0.1983 | | | | 5.0 | | 15.0 | | | |
| Trichlorofluoromethane | 0.2797 | 0.1786 | 0.2288 | 0.2770 | 0.2950 | Lin1 | -0.135 | 0.2838 | | | | | | | 0.9970 | | 0.9900 |
| Acrolein | 0.0212 | 0.0240 | 0.0195 | 0.0222 | 0.0200 | Ave | | 0.0214 | | | | 8.4 | | 15.0 | | | |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 0.2024 | 0.1932 | 0.1905 | 0.1670 | 0.2135 | Ave | | 0.1933 | | | | 8.9 | | 15.0 | | | |
| 1,1-Dichloroethene | 0.3433<br>0.3787 | 0.3698 | 0.3556 | 0.3520 | 0.3988 | Ave | | 0.3664 | | | | 5.5 | | 15.0 | | | |
| Acetone | 0.0475 | 0.2237 | 0.0549 | 0.0519 | 0.0513 | Lin1 | 0.3437 | 0.0450 | | | | | | | 0.9970 | | 0.9900 |
| Iodomethane | 0.3897<br>0.3584 | 0.3624 | 0.3460 | 0.3536 | 0.3691 | Ave | | 0.3632 | | | | 4.2 | | 15.0 | | | |
| Carbon disulfide | 0.7843<br>0.7808 | 0.7511 | 0.7650 | 0.7581 | 0.8179 | Ave | | 0.7762 | | | | 3.1 | | 15.0 | | | |
| Acetonitrile | 0.0240 | 0.0339 | 0.0242 | 0.0256 | 0.0228 | Lin1 | 0.1042 | 0.0236 | | | | | | | 0.9990 | | 0.9900 |
| Methyl acetate | 0.1385 | 0.2115 | 0.1337 | 0.1518 | 0.1334 | Lin1 | 0.1437 | 0.1367 | | | | | | | 0.9980 | | 0.9900 |
| Methylene Chloride | 0.2923 | 0.4190 | 0.3066 | 0.2974 | 0.2984 | Lin1 | 0.1289 | 0.2921 | | | | | | | 1.0000 | | 0.9900 |

NT

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-13070-1  Analy Batch No.: 33074

SDG No.:

Instrument ID: A3UX12  GC Column: DB-624  ID: 0.18(mm)  Heated Purge: (Y/N) N

Calibration Start Date: 02/07/2012 20:19  Calibration End Date: 02/07/2012 22:23  Calibration ID: 6865

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 2-Methyl-2-propanol | 0.0216<br>0.0160 | 0.0152 | 0.0137 | 0.0180 | 0.0143 | Lin1 | 0.0316 | 0.0156 | | | | | | | 0.9930 | | 0.9900 |
| Acrylonitrile | 0.1113<br>0.0710 | 0.0727 | 0.0638 | 0.0726 | 0.0650 | Lin1 | 0.0276 | 0.0687 | | | | | | | 0.9970 | | 0.9900 |
| Methyl tert-butyl ether | 0.7371<br>0.6136 | 0.5773 | 0.5542 | 0.6286 | 0.5813 | Ave | | 0.6154 | | | | 11.0 | | 15.0 | | | |
| trans-1,2-Dichloroethene | 0.3008<br>0.2850 | 0.2627 | 0.2877 | 0.2803 | 0.2930 | Ave | | 0.2849 | | | | 4.5 | | 15.0 | | | |
| Hexane | 0.2146<br>0.1757 | 0.1787 | 0.1736 | 0.1362 | 0.1803 | Ave | | 0.1765 | | | | 14.0 | | 15.0 | | | |
| 1,1-Dichloroethane | 0.3970<br>0.3552 | 0.3508 | 0.3496 | 0.3533 | 0.3608 | Ave | | 0.3611 | | | 0.1000 | 5.0 | | 15.0 | | | |
| Vinyl acetate | 0.0328 | 0.0280 | 0.0312 | 0.0316 | 0.0324 | Ave | | 0.0312 | | | | 6.1 | | 15.0 | | | |
| 2,2-Dichloropropane | 0.1840<br>0.1587 | 0.1536 | 0.1680 | 0.1627 | 0.1647 | Ave | | 0.1653 | | | | 6.3 | | 15.0 | | | |
| 2-Butanone (MEK) | 0.0328<br>0.0223 | 0.0223 | 0.0186 | 0.0233 | 0.0205 | Lin1 | 0.0063 | 0.0216 | | | | | | | 0.9960 | | 0.9900 |
| cis-1,2-Dichloroethene | 0.2728<br>0.3051 | 0.3285 | 0.3115 | 0.3057 | 0.3052 | Ave | | 0.3048 | | | | 5.9 | | 15.0 | | | |
| Chlorobromomethane | 0.2035<br>0.1724 | 0.1813 | 0.1664 | 0.1942 | 0.1718 | Ave | | 0.1816 | | | | 8.0 | | 15.0 | | | |
| Tetrahydrofuran | 0.0510 | 0.0893 | 0.0413 | 0.0578 | 0.0457 | Lin1 | 0.0338 | 0.0490 | | | | | | | 0.9900 | | 0.9900 |
| Chloroform | 0.3749<br>0.3445 | 0.3595 | 0.3477 | 0.3332 | 0.3419 | Ave | | 0.3503 | | | | 4.2 | | 15.0 | | | |
| 1,1,1-Trichloroethane | 0.2477<br>0.2369 | 0.2084 | 0.2278 | 0.2184 | 0.2314 | Ave | | 0.2285 | | | | 6.0 | | 15.0 | | | |
| Cyclohexane | 0.3370<br>0.2837 | 0.3015 | 0.2702 | 0.2373 | 0.2897 | Ave | | 0.2866 | | | | 12.0 | | 15.0 | | | |
| 1,1-Dichloropropene | 0.2557<br>0.2719 | 0.2436 | 0.2650 | 0.2561 | 0.2777 | Ave | | 0.2617 | | | | 4.7 | | 15.0 | | | |
| Carbon tetrachloride | 0.1486<br>0.1860 | 0.1560 | 0.1699 | 0.1613 | 0.1823 | Ave | | 0.1673 | | | | 8.8 | | 15.0 | | | |
| 1,2-Dichloroethane | 0.2562<br>0.2581 | 0.2642 | 0.2399 | 0.2537 | 0.2537 | Ave | | 0.2543 | | | | 3.2 | | 15.0 | | | |
| Benzene | 0.9727<br>0.8870 | 0.9302 | 0.8629 | 0.8552 | 0.8734 | Ave | | 0.8969 | | | | 5.1 | | 15.0 | | | |
| Trichloroethene | 0.2160<br>0.2155 | 0.2270 | 0.2071 | 0.2124 | 0.2141 | Ave | | 0.2154 | | | | 3.0 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-13070-1  Analy Batch No.: 33074

SDG No.:

Instrument ID: A3UX12  GC Column: DB-624  ID: 0.18(mm)  Heated Purge: (Y/N) N

Calibration Start Date: 02/07/2012 20:19  Calibration End Date: 02/07/2012 22:23  Calibration ID: 6865

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Methylcyclohexane | 0.2163<br>0.1781 | 0.1847 | 0.1749 | 0.1377 | 0.1852 | Ave | | 0.1795 | | | | 14.0 | | 15.0 | | | |
| 1,2-Dichloropropane | 0.1847<br>0.2137 | 0.2262 | 0.2033 | 0.2145 | 0.2137 | Ave | | 0.2093 | | | | 6.7 | | 15.0 | | | |
| 1,4-Dioxane | 0.0021<br>0.0024 | 0.0017 | 0.0020 | 0.0025 | 0.0023 | Ave | | 0.0022 | | | | 13.0 | | 15.0 | | | |
| Dibromomethane | 0.1351<br>0.1271 | 0.1251 | 0.1244 | 0.1255 | 0.1242 | Ave | | 0.1269 | | | | 3.3 | | 15.0 | | | |
| Dichlorobromomethane | 0.2803<br>0.2601 | 0.2544 | 0.2432 | 0.2538 | 0.2588 | Ave | | 0.2584 | | | | 4.7 | | 15.0 | | | |
| 2-Chloroethyl vinyl ether | 0.1459<br>0.1373 | 0.1221 | 0.1207 | 0.1323 | 0.1290 | Ave | | 0.1312 | | | | 7.2 | | 15.0 | | | |
| cis-1,3-Dichloropropene | 0.3651<br>0.3684 | 0.3460 | 0.3457 | 0.3567 | 0.3661 | Ave | | 0.3580 | | | | 2.8 | | 15.0 | | | |
| 4-Methyl-2-pentanone (MIBK) | 0.2432<br>0.1588 | 0.1822 | 0.1345 | 0.1651 | 0.1438 | Lin1 | 0.0681 | 0.1532 | | | | | | | 0.9960 | | 0.9900 |
| Toluene | 1.2795<br>1.2309 | 1.1940 | 1.2234 | 1.1698 | 1.2374 | Ave | | 1.2225 | | | | 3.1 | | 15.0 | | | |
| trans-1,3-Dichloropropene | 0.4659<br>0.4363 | 0.4232 | 0.4110 | 0.4202 | 0.4246 | Ave | | 0.4302 | | | | 4.5 | | 15.0 | | | |
| Ethyl methacrylate | 0.4091<br>0.3893 | 0.3684 | 0.3489 | 0.3752 | 0.3580 | Ave | | 0.3748 | | | | 5.8 | | 15.0 | | | |
| 1,1,2-Trichloroethane | 0.2861<br>0.2451 | 0.2476 | 0.2378 | 0.2452 | 0.2383 | Ave | | 0.2500 | | | | 7.3 | | 15.0 | | | |
| Tetrachloroethene | 0.2942<br>0.2371 | 0.2219 | 0.2230 | 0.2042 | 0.2416 | Ave | | 0.2370 | | | | 13.0 | | 15.0 | | | |
| 1,3-Dichloropropane | 0.4622<br>0.4694 | 0.4349 | 0.4555 | 0.4674 | 0.4642 | Ave | | 0.4589 | | | | 2.8 | | 15.0 | | | |
| 2-Hexanone | 0.1847<br>0.1483 | 0.1753 | 0.1291 | 0.1505 | 0.1342 | Ave | | 0.1537 | | | | 14.0 | | 15.0 | | | |
| Chlorodibromomethane | 0.2270<br>0.2541 | 0.2093 | 0.2319 | 0.2424 | 0.2475 | Ave | | 0.2354 | | | | 6.9 | | 15.0 | | | |
| Ethylene Dibromide | 0.2824<br>0.2519 | 0.2547 | 0.2523 | 0.2495 | 0.2440 | Ave | | 0.2558 | | | | 5.3 | | 15.0 | | | |
| Chlorobenzene | 0.8558<br>0.8072 | 0.8081 | 0.7929 | 0.7663 | 0.8116 | Ave | | 0.8070 | | | 0.3000 | 3.6 | | 15.0 | | | |
| 1,1,1,2-Tetrachloroethane | 0.2489<br>0.2614 | 0.2620 | 0.2362 | 0.2425 | 0.2588 | Ave | | 0.2517 | | | | 4.3 | | 15.0 | | | |
| Ethylbenzene | 0.3442<br>0.3905 | 0.3377 | 0.3858 | 0.3614 | 0.3893 | Ave | | 0.3681 | | | | 6.4 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-13070-1  Analy Batch No.: 33074

SDG No.:

Instrument ID: A3UX12  GC Column: DB-624  ID: 0.18(mm)  Heated Purge: (Y/N) N

Calibration Start Date: 02/07/2012 20:19  Calibration End Date: 02/07/2012 22:23  Calibration ID: 6865

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| m-Xylene & p-Xylene | 0.4724<br>0.5028 | 0.4770 | 0.4858 | 0.4598 | 0.4949 | Ave | | 0.4821 | | | | 3.2 | | 15.0 | | | |
| o-Xylene | 0.5224<br>0.4985 | 0.4971 | 0.4996 | 0.4656 | 0.4994 | Ave | | 0.4971 | | | | 3.7 | | 15.0 | | | |
| Styrene | 0.9362<br>0.9463 | 0.9496 | 0.9074 | 0.8729 | 0.9485 | Ave | | 0.9268 | | | | 3.3 | | 15.0 | | | |
| Bromoform | <br>0.1626 | 0.1571 | 0.1452 | 0.1532 | 0.1548 | Ave | | 0.1546 | | | 0.1000 | 4.1 | | 15.0 | | | |
| Isopropylbenzene | 1.0046<br>1.1487 | 1.1015 | 1.1243 | 1.0267 | 1.1519 | Ave | | 1.0929 | | | | 5.8 | | 15.0 | | | |
| 1,1,2,2-Tetrachloroethane | 0.9790<br>0.8175 | 0.8333 | 0.7705 | 0.8157 | 0.7403 | Ave | | 0.8260 | | | 0.3000 | 10.0 | | 15.0 | | | |
| Bromobenzene | 0.8614<br>0.7567 | 0.7407 | 0.7867 | 0.7198 | 0.7534 | Ave | | 0.7698 | | | | 6.5 | | 15.0 | | | |
| 1,2,3-Trichloropropane | 0.2559<br>0.2610 | 0.2410 | 0.2353 | 0.2608 | 0.2355 | Ave | | 0.2482 | | | | 5.0 | | 15.0 | | | |
| trans-1,4-Dichloro-2-butene | <br>0.2368 | 0.2516 | 0.2198 | 0.2272 | 0.2206 | Ave | | 0.2312 | | | | 5.8 | | 15.0 | | | |
| N-Propylbenzene | 0.6082<br>0.7027 | 0.6887 | 0.7070 | 0.6213 | 0.6927 | Ave | | 0.6701 | | | | 6.5 | | 15.0 | | | |
| 2-Chlorotoluene | 0.7388<br>0.6464 | 0.5601 | 0.6604 | 0.6013 | 0.6342 | Ave | | 0.6402 | | | | 9.4 | | 15.0 | | | |
| 1,3,5-Trimethylbenzene | 2.2498<br>2.2431 | 2.0365 | 2.2253 | 1.9629 | 2.1834 | Ave | | 2.1502 | | | | 5.6 | | 15.0 | | | |
| 4-Chlorotoluene | 0.6971<br>0.6998 | 0.6516 | 0.6946 | 0.6579 | 0.6992 | Ave | | 0.6834 | | | | 3.3 | | 15.0 | | | |
| tert-Butylbenzene | 1.7318<br>1.8665 | 1.7590 | 1.8288 | 1.6050 | 1.8294 | Ave | | 1.7701 | | | | 5.4 | | 15.0 | | | |
| 1,2,4-Trimethylbenzene | 2.2814<br>2.3203 | 2.2868 | 2.3104 | 2.0977 | 2.2776 | Ave | | 2.2624 | | | | 3.6 | | 15.0 | | | |
| sec-Butylbenzene | 2.3725<br>2.7238 | 2.5627 | 2.6859 | 2.3321 | 2.6793 | Ave | | 2.5594 | | | | 6.6 | | 15.0 | | | |
| 1,3-Dichlorobenzene | 1.3785<br>1.3089 | 1.3083 | 1.3201 | 1.2398 | 1.3073 | Ave | | 1.3105 | | | | 3.4 | | 15.0 | | | |
| 4-Isopropyltoluene | 1.9362<br>2.2936 | 2.1326 | 2.2278 | 1.9853 | 2.2451 | Ave | | 2.1368 | | | | 6.9 | | 15.0 | | | |
| 1,4-Dichlorobenzene | 1.5718<br>1.3709 | 1.3465 | 1.3980 | 1.2771 | 1.3433 | Ave | | 1.3846 | | | | 7.2 | | 15.0 | | | |
| n-Butylbenzene | 1.8636<br>2.0225 | 2.0343 | 1.9669 | 1.7509 | 2.0400 | Ave | | 1.9464 | | | | 6.0 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-13070-1  Analy Batch No.: 33074

SDG No.:

Instrument ID: A3UX12  GC Column: DB-624  ID: 0.18(mm)  Heated Purge: (Y/N) N

Calibration Start Date: 02/07/2012 20:19  Calibration End Date: 02/07/2012 22:23  Calibration ID: 6865

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 1,2-Dichlorobenzene | 1.2736<br>1.2755 | 1.2404 | 1.2688 | 1.1998 | 1.2484 | Ave | | 1.2511 | | | | 2.3 | | 15.0 | | | |
| 1,2-Dibromo-3-Chloropropane | 0.1355 | 0.1112 | 0.1103 | 0.1312 | 0.1208 | Ave | | 0.1218 | | | | 9.4 | | 15.0 | | | |
| 1,3,5-Trichlorobenzene | 0.8515<br>0.8057 | 0.9239 | 0.7892 | 0.7395 | 0.7851 | Ave | | 0.8158 | | | | 7.9 | | 15.0 | | | |
| 1,2,4-Trichlorobenzene | 0.6778<br>0.6656 | 0.6516 | 0.5777 | 0.6335 | 0.6165 | Ave | | 0.6371 | | | | 5.7 | | 15.0 | | | |
| Hexachlorobutadiene | 0.3902<br>0.3026 | 0.3201 | 0.3000 | 0.2619 | 0.2906 | Ave | | 0.3109 | | | | 14.0 | | 15.0 | | | |
| Naphthalene | 1.6967<br>1.5465 | 1.2844 | 1.2198 | 1.5495 | 1.3099 | Ave | | 1.4345 | | | | 13.0 | | 15.0 | | | |
| 1,2,3-Trichlorobenzene | 0.4296<br>0.4542 | 0.4027 | 0.3454 | 0.4495 | 0.3853 | Ave | | 0.4111 | | | | 10.0 | | 15.0 | | | |
| Dibromofluoromethane (Surr) | 0.1924 | 0.2050 | 0.1886 | 0.2238 | 0.1908 | Ave | | 0.2001 | | | | 7.3 | | 15.0 | | | |
| 1,2-Dichloroethane-d4 (Surr) | 0.2318 | 0.2346 | 0.1982 | 0.2734 | 0.2236 | Ave | | 0.2323 | | | | 12.0 | | 15.0 | | | |
| Toluene-d8 (Surr) | 1.0896 | 1.1248 | 1.0875 | 1.2038 | 1.0652 | Ave | | 1.1142 | | | | 4.9 | | 15.0 | | | |
| 4-Bromofluorobenzene (Surr) | 0.4203 | 0.4638 | 0.4337 | 0.4477 | 0.4215 | Ave | | 0.4374 | | | | 4.2 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: ICV 240-33074/15  Calibration Date: 02/08/2012 00:54

Instrument ID: A3UX12  Calib Start Date: 02/07/2012 20:19

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 02/07/2012 22:23

Lab File ID: UX122188.D  Conc. Units: ng/uL  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | Ave | 0.1574 | 0.1692 | | 0.0215 | 0.0200 | 7.5 | 50.0 |
| Chloromethane | Ave | 0.2632 | 0.2739 | 0.1000 | 0.0208 | 0.0200 | 4.1 | 50.0 |
| Vinyl chloride | Ave | 0.3139 | 0.3135 | | 0.0200 | 0.0200 | -0.1 | 20.0 |
| Bromomethane | Ave | 0.1774 | 0.1698 | | 0.0191 | 0.0200 | -4.3 | 50.0 |
| Chloroethane | Ave | 0.1983 | 0.1944 | | 0.0196 | 0.0200 | -2.0 | 50.0 |
| Trichlorofluoromethane | Lin1 | | 0.2929 | | 0.0211 | 0.0200 | 5.5 | 50.0 |
| Acrolein | Ave | 0.0214 | 0.0384 | | 0.108 | 0.0600 | 79.8* | 50.0 |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | Ave | 0.1933 | 0.2221 | | 0.0230 | 0.0200 | 14.9 | 50.0 |
| 1,1-Dichloroethene | Ave | 0.3664 | 0.4054 | | 0.0221 | 0.0200 | 10.6 | 20.0 |
| Acetone | Lin1 | | 0.0543 | | 0.0406 | 0.0400 | 1.5 | 50.0 |
| Iodomethane | Ave | 0.3632 | 0.3757 | | 0.0207 | 0.0200 | 3.4 | 50.0 |
| Carbon disulfide | Ave | 0.7762 | 0.7965 | | 0.0205 | 0.0200 | 2.6 | 50.0 |
| Acetonitrile | Lin1 | | 0.0256 | | 0.0607 | 0.0600 | 1.2 | 50.0 |
| Methyl acetate | Lin1 | | 0.1372 | | 0.0190 | 0.0200 | -5.0 | 50.0 |
| Methylene Chloride | Lin1 | | 0.3132 | | 0.0210 | 0.0200 | 5.0 | 50.0 |
| 2-Methyl-2-propanol | Lin1 | | 0.0183 | | 0.467 | 0.400 | 16.7 | 50.0 |
| Acrylonitrile | Lin1 | | 0.0765 | | 0.0664 | 0.0600 | 10.7 | 50.0 |
| Methyl tert-butyl ether | Ave | 0.6154 | 0.6332 | | 0.0206 | 0.0200 | 2.9 | 50.0 |
| trans-1,2-Dichloroethene | Ave | 0.2849 | 0.2992 | | 0.0210 | 0.0200 | 5.0 | 50.0 |
| Hexane | Ave | 0.1765 | 0.1810 | | 0.0205 | 0.0200 | 2.6 | 20.0 |
| 1,1-Dichloroethane | Ave | 0.3611 | 0.3771 | 0.1000 | 0.0209 | 0.0200 | 4.4 | 50.0 |
| Vinyl acetate | Ave | 0.0312 | 0.0542 | | 0.0347 | 0.0200 | 73.5* | 50.0 |
| 2,2-Dichloropropane | Ave | 0.1653 | 0.1655 | | 0.0200 | 0.0200 | 0.1 | 50.0 |
| 2-Butanone (MEK) | Lin1 | | 0.0234 | | 0.0429 | 0.0400 | 7.3 | 50.0 |
| cis-1,2-Dichloroethene | Ave | 0.3048 | 0.3122 | | 0.0205 | 0.0200 | 2.4 | 50.0 |
| Chlorobromomethane | Ave | 0.1816 | 0.1748 | | 0.0193 | 0.0200 | -3.7 | 50.0 |
| Tetrahydrofuran | Lin1 | | 0.0523 | | 0.0207 | 0.0200 | 3.5 | 50.0 |
| Chloroform | Ave | 0.3503 | 0.3651 | | 0.0208 | 0.0200 | 4.2 | 20.0 |
| 1,1,1-Trichloroethane | Ave | 0.2285 | 0.2277 | | 0.0199 | 0.0200 | -0.3 | 50.0 |
| Cyclohexane | Ave | 0.2866 | 0.2753 | | 0.0192 | 0.0200 | -3.9 | 50.0 |
| 1,1-Dichloropropene | Ave | 0.2617 | 0.2731 | | 0.0209 | 0.0200 | 4.4 | 50.0 |
| Carbon tetrachloride | Ave | 0.1673 | 0.1766 | | 0.0211 | 0.0200 | 5.5 | 50.0 |
| 1,2-Dichloroethane | Ave | 0.2543 | 0.2648 | | 0.0208 | 0.0200 | 4.1 | 50.0 |
| Benzene | Ave | 0.8969 | 0.8696 | | 0.0194 | 0.0200 | -3.0 | 50.0 |
| Trichloroethene | Ave | 0.2154 | 0.2144 | | 0.0199 | 0.0200 | -0.4 | 50.0 |
| Methylcyclohexane | Ave | 0.1795 | 0.1650 | | 0.0184 | 0.0200 | -8.1 | 50.0 |
| 1,2-Dichloropropane | Ave | 0.2093 | 0.2178 | | 0.0208 | 0.0200 | 4.0 | 20.0 |
| Dibromomethane | Ave | 0.1269 | 0.1324 | | 0.0209 | 0.0200 | 4.3 | 50.0 |
| Dichlorobromomethane | Ave | 0.2584 | 0.2544 | | 0.0197 | 0.0200 | -1.5 | 50.0 |
| 2-Chloroethyl vinyl ether | Ave | 0.1312 | 0.1413 | | 0.0215 | 0.0200 | 7.7 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: ICV 240-33074/15  Calibration Date: 02/08/2012 00:54

Instrument ID: A3UX12  Calib Start Date: 02/07/2012 20:19

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 02/07/2012 22:23

Lab File ID: UX122188.D  Conc. Units: ng/uL  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | Ave | 0.3580 | 0.3448 | | 0.0193 | 0.0200 | -3.7 | 50.0 |
| 4-Methyl-2-pentanone (MIBK) | Lin1 | | 0.1714 | | 0.0443 | 0.0400 | 10.8 | 50.0 |
| Toluene | Ave | 1.223 | 1.217 | | 0.0199 | 0.0200 | -0.5 | 20.0 |
| trans-1,3-Dichloropropene | Ave | 0.4302 | 0.4304 | | 0.0200 | 0.0200 | 0.0 | 50.0 |
| 1,1,2-Trichloroethane | Ave | 0.2500 | 0.2492 | | 0.0199 | 0.0200 | -0.3 | 50.0 |
| Tetrachloroethene | Ave | 0.2370 | 0.2279 | | 0.0192 | 0.0200 | -3.8 | 50.0 |
| 1,3-Dichloropropane | Ave | 0.4589 | 0.4792 | | 0.0209 | 0.0200 | 4.4 | 50.0 |
| 2-Hexanone | Ave | 0.1537 | 0.1607 | | 0.0418 | 0.0400 | 4.5 | 50.0 |
| Chlorodibromomethane | Ave | 0.2354 | 0.2245 | | 0.0191 | 0.0200 | -4.6 | 50.0 |
| Ethylene Dibromide | Ave | 0.2558 | 0.2585 | | 0.0202 | 0.0200 | 1.1 | 50.0 |
| Chlorobenzene | Ave | 0.8070 | 0.8029 | 0.3000 | 0.0199 | 0.0200 | -0.5 | 50.0 |
| 1,1,1,2-Tetrachloroethane | Ave | 0.2517 | 0.2443 | | 0.0194 | 0.0200 | -2.9 | 50.0 |
| Ethylbenzene | Ave | 0.3681 | 0.3810 | | 0.0207 | 0.0200 | 3.5 | 20.0 |
| m-Xylene & p-Xylene | Ave | 0.4821 | 0.4747 | | 0.0394 | 0.0400 | -1.5 | 50.0 |
| o-Xylene | Ave | 0.4971 | 0.4838 | | 0.0195 | 0.0200 | -2.7 | 50.0 |
| Styrene | Ave | 0.9268 | 0.9264 | | 0.0200 | 0.0200 | -0.0 | 50.0 |
| Bromoform | Ave | 0.1546 | 0.1439 | 0.1000 | 0.0186 | 0.0200 | -6.9 | 50.0 |
| Isopropylbenzene | Ave | 1.093 | 1.096 | | 0.0201 | 0.0200 | 0.3 | 50.0 |
| 1,1,2,2-Tetrachloroethane | Ave | 0.8260 | 0.7638 | 0.3000 | 0.0185 | 0.0200 | -7.5 | 50.0 |
| Bromobenzene | Ave | 0.7698 | 0.7017 | | 0.0182 | 0.0200 | -8.8 | 50.0 |
| 1,2,3-Trichloropropane | Ave | 0.2482 | 0.2560 | | 0.0206 | 0.0200 | 3.1 | 50.0 |
| trans-1,4-Dichloro-2-butene | Ave | 0.2312 | 0.2149 | | 0.0372 | 0.0400 | -7.0 | 50.0 |
| N-Propylbenzene | Ave | 0.6701 | 0.6308 | | 0.0188 | 0.0200 | -5.9 | 50.0 |
| 2-Chlorotoluene | Ave | 0.6402 | 0.5835 | | 0.0182 | 0.0200 | -8.9 | 50.0 |
| 1,3,5-Trimethylbenzene | Ave | 2.150 | 1.957 | | 0.0182 | 0.0200 | -9.0 | 50.0 |
| 4-Chlorotoluene | Ave | 0.6834 | 0.6460 | | 0.0189 | 0.0200 | -5.5 | 50.0 |
| tert-Butylbenzene | Ave | 1.770 | 1.626 | | 0.0184 | 0.0200 | -8.1 | 50.0 |
| 1,2,4-Trimethylbenzene | Ave | 2.262 | 2.039 | | 0.0180 | 0.0200 | -9.9 | 50.0 |
| sec-Butylbenzene | Ave | 2.559 | 2.273 | | 0.0178 | 0.0200 | -11.2 | 50.0 |
| 1,3-Dichlorobenzene | Ave | 1.310 | 1.202 | | 0.0183 | 0.0200 | -8.3 | 50.0 |
| 4-Isopropyltoluene | Ave | 2.137 | 2.018 | | 0.0189 | 0.0200 | -5.6 | 50.0 |
| 1,4-Dichlorobenzene | Ave | 1.385 | 1.257 | | 0.0182 | 0.0200 | -9.2 | 50.0 |
| n-Butylbenzene | Ave | 1.946 | 1.729 | | 0.0178 | 0.0200 | -11.2 | 50.0 |
| 1,2-Dichlorobenzene | Ave | 1.251 | 1.157 | | 0.0185 | 0.0200 | -7.5 | 50.0 |
| 1,2-Dibromo-3-Chloropropane | Ave | 0.1218 | 0.1240 | | 0.0204 | 0.0200 | 1.8 | 50.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.6371 | 0.5481 | | 0.0172 | 0.0200 | -14.0 | 50.0 |
| Hexachlorobutadiene | Ave | 0.3109 | 0.2588 | | 0.0167 | 0.0200 | -16.7 | 50.0 |
| Naphthalene | Ave | 1.434 | 1.435 | | 0.0200 | 0.0200 | 0.0 | 50.0 |
| 1,2,3-Trichlorobenzene | Ave | 0.4111 | 0.3983 | | 0.0194 | 0.0200 | -3.1 | 50.0 |
| Dibromofluoromethane (Surr) | Ave | 0.2001 | 0.2190 | | 0.0219 | 0.0200 | 9.4 | 50.0 |
| 1,2-Dichloroethane-d4 (Surr) | Ave | 0.2323 | 0.2433 | | 0.0209 | 0.0200 | 4.7 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-13070-1

SDG No.:

Lab Sample ID: ICV 240-33074/15 Calibration Date: 02/08/2012 00:54

Instrument ID: A3UX12 Calib Start Date: 02/07/2012 20:19

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 02/07/2012 22:23

Lab File ID: UX122188.D Conc. Units: ng/uL Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Toluene-d8 (Surr) | Ave | 1.114 | 1.228 | | 0.0221 | 0.0200 | 10.3 | 50.0 |
| 4-Bromofluorobenzene (Surr) | Ave | 0.4374 | 0.4605 | | 0.0211 | 0.0200 | 5.3 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-13070-1

SDG No.:

Lab Sample ID: ICV 240-33074/15  Calibration Date: 02/08/2012 00:54

Instrument ID: A3UX12  Calib Start Date: 02/07/2012 22:48

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 02/08/2012 00:29

Lab File ID: UX122188.D  Conc. Units: ng/uL  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Ethyl ether | Ave | 0.1573 | 0.1810 | | 0.0230 | 0.0200 | 15.0 | 50.0 |
| Isopropyl ether | Ave | 0.1866 | 0.1986 | | 0.0213 | 0.0200 | 6.4 | 50.0 |
| Isobutyl alcohol | Ave | 0.0058 | 0.0070 | | 1.20 | 1.00 | 19.8 | 50.0 |
| Cyclohexanone | Ave | 0.0258 | 0.0235 | | 0.365 | 0.400 | -8.8 | 50.0 |

**Tetra Tech** **INTERNAL CORRESPONDENCE**

**TO:** **T. APANAVAGE** **DATE:** **OCTOBER 2, 2012**

**FROM:** **EDWARD SEDLMYER** **COPIES:** **DV FILE**

**SUBJECT:** **ORGANIC AND INORGANIC DATA VALIDATION- VOC/SVOC/TPH/METALS**
**LOCKHEED MARTIN – MSA**
**SDG 240-14408-1**

**SAMPLES:** 4/Aqueous/VOC/SVOC/PCB/PET

MT-MW09S-082112 MT-MW11S-082112 MT-MW12S-082112
TB-082112

Overview

The sample set for Lockheed Martin – MSA, SDG 240-14408-1 consists of three (3) aqueous environmental samples and one (1) trip blank. The samples were analyzed for volatile organic compounds (VOC), semivolatile organic compounds (SVOC), polychlorinated biphenyls (PCB), total petroleum hydrocarbons (TPH C6-C10 & TPH C10-C32), total and dissolved metals. The trip blank was analyzed for VOCs only.

The samples were collected by Tetra Tech on August 21, 2012 and analyzed by Test America (North Canton). All analyses were conducted in accordance with SW-846 Methods 8260B, 8270D, 8015C, 6020A, and 7470A analytical and reporting protocols.

The data contained in this SDG were validated with regard to the following parameters: data completeness, holding times, GC/MS tuning, initial/continuing calibrations, laboratory method blank results, surrogate spike recoveries, blank spike/blank spike duplicate results, internal standard recoveries, ICP interference results, laboratory duplicate results, ICP serial dilution results, chromatographic resolution, analyte identification, analyte quantitation, and detection limits. Areas of concern are listed below.

Major

- The VOC initial calibration and associated continuing calibration relative response factors (RRFs) were less than the 0.05 quality control limit for tert-butyl alcohol and vinyl acetate on instrument A3UX17. Only non-detected results were reported for tert-butyl alcohol and vinyl acetate and these results were rejected (UR).

Minor

- The following compounds were detected in the organic method blanks at the maximum concentrations indicated below:

| Compound | Concentration | Action Level |
|---|---|---|
| 1,2,3-Trichlorobenzene | 0.177 ug/L | 0.885 ug/L |
| TPH (C6-C10) | 43.7 ug/L | 218.5 ug/L |
| TPH (C10-C32) | 348 ug/L | 1,740 ug/L |

An action level of 5 times the maximum contaminant concentration was established for 1,2,3-

trichlorobenzene, TPH (C6-C10), and TPH (C10-C32) to evaluate laboratory contamination. Dilution factors and sample aliquots were taken into consideration during the application of all action levels. No action was taken on for 1,2,3-trichlorobenzene because all results were nondetected. All results for TPH (C6-C10) and TPH (C10-C32) were qualified (B) as a result of laboratory blank contamination.

- The VOC continuing calibration percent differences (%Ds) were greater than the quality control limit of 20% and less than 50% for bromomethane, chloroethane, trichlorofluoromethane, 1,1,2-trichlorotrifuloromethane, 2-butanone, 4-methyl-2-pentanone, trans-1,3-dichloropropene, 2-hexanone, 1,2-dibromo-3-chloropropane, hexachlorobutadiene, naphthalene, and 1,2,3-trichlorobenzene for instrument A3UX17 on 08/31/12 @ 21:33. Only nondetected results were reported for the aforementioned compounds, except for naphthalene, in the affected samples. No action was taken on the nondetected results. The positive naphthalene result in sample MT-MW12S-082112 was qualified as estimated (J).

- The following contaminants were detected in the laboratory method/preparation blanks at the following maximum concentrations:

| Analyte | Maximum Concentration | Action Level |
|---|---|---|
| Barium[(1)] | 0.678 ug/L | 3.39 ug/L |
| Copper[(1)] | 0.514 ug/L | 2.57 ug/L |
| Molybdenum[(2)] | 1.08 ug/L | 5.4 ug/L |
| Thallium[(2)] | 0.376 ug/L | 1.88 ug/L |
| Zinc[(1)] | 6.90 ug/L | 34.5 ug/L |

(1) Maximum concentration present in a method blank affecting all samples.
(2) Maximum concentration present in a preparation blank affecting all samples.

An action level of 5X the maximum contaminant level has been used to evaluate sample data for blank contamination. Sample aliquot and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. The positive results less than the blank action level reported for copper, molybdenum, thallium and zinc were qualified (B) as a result of laboratory blank contamination.

The CRDL percent recovery for cadmium and copper were > 110% quality control limit affecting all samples. Positive results < 2X CRDL for cadmium and copper were qualified as estimated, (J), as a result of conflicting noncompliances or qualified (K) as biased high.

- Positive results less than the reporting limit (RL) were qualified as estimated, (J), due to uncertainty near the detection limit.

Notes

The VOC continuing calibration %Ds were greater than the quality control limit of 20% and less than 50% for ethyl-tert-butyl ether, tert-amyl-methyl-ether, and 1,2,3-trimethylbenzene for instrument A3UX17 on 08/31/12 @ 21:56. No action was taken on this basis because only nondetected results were reported for the aforementioned compounds in the affected samples.

The VOC MS/MSD associated with batch 56479 had zero percent recovery for 2-chloroethyl vinyl ether and a low percent recovery for tert-butyl alcohol in the MS. No action was taken on this basis because the batch MS/MSD was not performed on a Tetra Tech sample.

The laboratory control sample (LCS) associated with batch 55629 had a percent recovery greater than the quality control limit for benzaldehyde. No action was taken on this basis because only nondetects were reported for benzaldehyde.

The CRDL percent recoveries for nickel, silver, and zinc were > 110% quality control limit affecting all

samples. However, no validation actions were required as all sample results were either > 2X CRDL or nondetects

Naphthalene and hexachlorobutadiene were reported in both the VOC and SVOC analytical fractions. No validation action was taken on this basis.

**Executive Summary**

**Laboratory Performance:** Two VOC compounds had RRF noncompliances resulting in the rejection of data. Naphthalene was qualified as estimated in one sample due to a percent difference calibration noncompliance. Blank contamination for the TPH (C6-C10), TPH (C10-C32), total and dissolved metals fraction resulted in the qualification of data. The CRDL percent recoveries for several analytes were outside the 90-110% quality control limits.

**Other Factors Affecting Data Quality:** Positive results less than the reporting limit (RL) were qualified as estimated, (J), due to uncertainty near the detection limit.

The data for these analyses were reviewed with reference to Region III modifications to U.S. EPA National Functional Guidelines for Organic Data Validation (Sept. 1994) and Region III modifications to the National Functional Guidelines for Inorganic Data Validation (April 1993). The text of this report has been formulated to address only those problem areas affecting data quality.

for

Tetra Tech
Edward Sedlmyer
Chemist/Data Validator

Tetra Tech
Joseph A. Samchuck
Quality Assurance Officer

Attachments:
Appendix A – Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
Appendix C – Support Documentation

**Appendix A**

Qualified Analytical Results

**Qualifier Codes:**

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = ICP PDS Recovery Noncompliance; MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = RPD between columns/detectors >40% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 standard deviations is greater than sample activity
Z1 = Tentatively Identified Compound considered presumptively present
Z2 = Tentatively Identified Compound column bleed

| PROJ_NO: 04054 | NSAMPLE | MT-MW09S-082112 | | | MT-MW11S-082112 | | | MT-MW12S-082112 | | | TB-082112 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-14408-1 | LAB_ID | 240-14408-2 | | | 240-14408-3 | | | 240-14408-4 | | | 240-14408-1 | | |
| FRACTION: OV | SAMP_DATE | 8/21/2012 | | | 8/21/2012 | | | 8/21/2012 | | | 8/21/2012 | | |
| MEDIA: WATER | QC_TYPE | NM | | | NM | | | NM | | | NM | | |
| | UNITS | UG/L | | | UG/L | | | UG/L | | | UG/L | | |
| | PCT_SOLIDS | 0.0 | | | 0.0 | | | 0.0 | | | 0.0 | | |
| | DUP_OF | | | | | | | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| 1,1,1,2-TETRACHLOROETHANE | | 0.23 | U | | 0.23 | U | | 0.23 | U | | 0.23 | U | |
| 1,1,1-TRICHLOROETHANE | | 0.22 | U | | 0.22 | U | | 0.22 | U | | 0.22 | U | |
| 1,1,2,2-TETRACHLOROETHANE | | 0.18 | U | | 0.18 | U | | 0.18 | U | | 0.18 | U | |
| 1,1,2-TRICHLOROTRIFLUOROETHANE | | 0.28 | U | | 0.28 | U | | 0.28 | U | | 0.28 | U | |
| 1,1-DICHLOROETHANE | | 0.15 | U | | 0.15 | U | | 0.15 | U | | 0.15 | U | |
| 1,1-DICHLOROETHENE | | 0.19 | U | | 0.19 | U | | 0.19 | U | | 0.19 | U | |
| 1,1-DICHLOROPROPENE | | 0.13 | U | | 0.13 | U | | 0.13 | U | | 0.13 | U | |
| 1,2,3-TRICHLOROBENZENE | | 0.17 | U | | 0.17 | U | | 0.17 | U | | 0.17 | U | |
| 1,2,3-TRICHLOROPROPANE | | 0.43 | U | | 0.43 | U | | 0.43 | U | | 0.43 | U | |
| 1,2,3-TRIMETHYLBENZENE | | 0.0059 | U | | 0.0059 | U | | 0.0059 | U | | 0.0059 | U | |
| 1,2,4-TRICHLOROBENZENE | | 0.15 | U | | 0.15 | U | | 0.15 | U | | 0.15 | U | |
| 1,2,4-TRIMETHYLBENZENE | | 0.12 | U | | 0.12 | U | | 0.12 | U | | 0.12 | U | |
| 1,2-DIBROMO-3-CHLOROPROPANE | | 0.67 | U | | 0.67 | U | | 0.67 | U | | 0.67 | U | |
| 1,2-DIBROMOETHANE | | 0.24 | U | | 0.24 | U | | 0.24 | U | | 0.24 | U | |
| 1,2-DICHLOROBENZENE | | 0.13 | U | | 0.13 | U | | 0.13 | U | | 0.13 | U | |
| 1,2-DICHLOROETHANE | | 0.22 | U | | 0.22 | U | | 0.22 | U | | 0.22 | U | |
| 1,2-DICHLOROPROPANE | | 0.18 | U | | 0.18 | U | | 0.18 | U | | 0.18 | U | |
| 1,3-DICHLOROBENZENE | | 0.14 | U | | 0.14 | U | | 0.14 | U | | 0.14 | U | |
| 1,3-DICHLOROPROPANE | | 0.16 | U | | 0.16 | U | | 0.16 | U | | 0.16 | U | |
| 1,4-DICHLOROBENZENE | | 0.13 | U | | 0.13 | U | | 0.13 | U | | 0.13 | U | |
| 2,2-DICHLOROPROPANE | | 0.13 | U | | 0.13 | U | | 0.13 | U | | 0.13 | U | |
| 2-BUTANONE | | 0.57 | U | | 0.57 | U | | 0.57 | U | | 0.57 | U | |
| 2-CHLOROETHYL VINYL ETHER | | 0.99 | U | | 0.99 | U | | 0.99 | U | | 0.99 | U | |
| 2-CHLOROTOLUENE | | 0.11 | U | | 0.11 | U | | 0.11 | U | | 0.11 | U | |
| 2-HEXANONE | | 0.41 | U | | 0.41 | U | | 0.41 | U | | 0.41 | U | |
| 4-CHLOROTOLUENE | | 0.18 | U | | 0.18 | U | | 0.18 | U | | 0.18 | U | |
| 4-ISOPROPYLTOLUENE | | 0.12 | U | | 0.12 | U | | 0.12 | U | | 0.12 | U | |
| 4-METHYL-2-PENTANONE | | 0.32 | U | | 0.32 | U | | 0.32 | U | | 0.32 | U | |
| ACETONE | | 1.9 | J | P | 2.8 | J | P | 1.1 | U | | 1.1 | U | |
| BENZENE | | 0.13 | U | | 0.13 | U | | 0.13 | U | | 0.13 | U | |
| BROMOBENZENE | | 0.13 | U | | 0.13 | U | | 0.13 | U | | 0.13 | U | |
| BROMOCHLOROMETHANE | | 0.29 | U | | 0.29 | U | | 0.29 | U | | 0.29 | U | |
| BROMODICHLOROMETHANE | | 0.15 | U | | 0.15 | U | | 0.15 | U | | 0.15 | U | |
| BROMOFORM | | 0.64 | U | | 0.64 | U | | 0.64 | U | | 0.64 | U | |
| BROMOMETHANE | | 0.41 | U | | 0.41 | U | | 0.41 | U | | 0.41 | U | |

| PROJ_NO: 04054 | NSAMPLE | MT-MW09S-082112 | | | MT-MW11S-082112 | | | MT-MW12S-082112 | | | TB-082112 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-14408-1 | LAB_ID | 240-14408-2 | | | 240-14408-3 | | | 240-14408-4 | | | 240-14408-1 | | |
| FRACTION: OV | SAMP_DATE | 8/21/2012 | | | 8/21/2012 | | | 8/21/2012 | | | 8/21/2012 | | |
| MEDIA: WATER | QC_TYPE | NM | | | NM | | | NM | | | NM | | |
| | UNITS | UG/L | | | UG/L | | | UG/L | | | UG/L | | |
| | PCT_SOLIDS | 0.0 | | | 0.0 | | | 0.0 | | | 0.0 | | |
| | DUP_OF | | | | | | | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| CARBON DISULFIDE | | 2.9 | | | 0.46 | J | P | 0.13 | U | | 0.13 | U | |
| CARBON TETRACHLORIDE | | 0.13 | U | | 0.13 | U | | 0.34 | J | P | 0.13 | U | |
| CHLOROBENZENE | | 0.15 | U | | 0.15 | U | | 0.15 | U | | 0.15 | U | |
| CHLORODIBROMOMETHANE | | 0.18 | U | | 0.18 | U | | 0.18 | U | | 0.18 | U | |
| CHLOROETHANE | | 0.29 | U | | 0.29 | U | | 0.29 | U | | 0.29 | U | |
| CHLOROFORM | | 0.16 | U | | 0.36 | J | P | 11 | | | 0.16 | U | |
| CHLOROMETHANE | | 0.3 | U | | 0.3 | U | | 0.3 | U | | 0.3 | U | |
| CIS-1,2-DICHLOROETHENE | | 0.17 | U | | 0.17 | U | | 0.17 | U | | 0.17 | U | |
| CIS-1,3-DICHLOROPROPENE | | 0.14 | U | | 0.14 | U | | 0.14 | U | | 0.14 | U | |
| DIBROMOMETHANE | | 0.28 | U | | 0.28 | U | | 0.28 | U | | 0.28 | U | |
| DICHLORODIFLUOROMETHANE | | 0.31 | U | | 0.31 | U | | 0.31 | U | | 0.31 | U | |
| DIISOPROPYL ETHER | | 1.5 | U | | 1.5 | U | | 1.5 | U | | 1.5 | U | |
| ETHYL TERT-BUTYL ETHER | | 0.11 | U | | 0.11 | U | | 0.11 | U | | 0.11 | U | |
| ETHYLBENZENE | | 0.17 | U | | 0.17 | U | | 0.17 | U | | 0.17 | U | |
| HEXACHLOROBUTADIENE | | 0.3 | U | | 0.3 | U | | 0.3 | U | | 0.3 | U | |
| ISOPROPYLBENZENE | | 0.13 | U | | 0.13 | U | | 0.13 | U | | 0.13 | U | |
| M+P-XYLENES | | 0.24 | U | | 0.24 | U | | 0.24 | U | | 0.24 | U | |
| METHYL TERT-BUTYL ETHER | | 0.17 | U | | 0.17 | U | | 0.17 | U | | 0.17 | U | |
| METHYLENE CHLORIDE | | 0.33 | U | | 0.33 | U | | 0.33 | U | | 0.33 | U | |
| NAPHTHALENE | | 0.24 | U | | 0.24 | U | | 0.54 | J | CP | 0.24 | U | |
| N-BUTYLBENZENE | | 0.12 | U | | 0.12 | U | | 0.12 | U | | 0.12 | U | |
| N-PROPYLBENZENE | | 0.14 | U | | 0.14 | U | | 0.14 | U | | 0.14 | U | |
| O-XYLENE | | 0.14 | U | | 0.14 | U | | 0.14 | U | | 0.14 | U | |
| SEC-BUTYLBENZENE | | 0.13 | U | | 0.13 | U | | 0.13 | U | | 0.13 | U | |
| SILANOL, TRIMETHYL- | | | | | | | | | | | 1 | R | Z2 |
| STYRENE | | 0.11 | U | | 0.11 | U | | 0.11 | U | | 0.11 | U | |
| TERT-AMYL METHYL ETHER | | 0.067 | U | | 0.067 | U | | 0.067 | U | | 0.067 | U | |
| TERT-BUTYLBENZENE | | 0.13 | U | | 0.13 | U | | 0.13 | U | | 0.13 | U | |
| TERTIARY-BUTYL ALCOHOL | | 3.9 | UR | C | 3.9 | UR | C | 3.9 | UR | C | 3.9 | UR | C |
| TETRACHLOROETHENE | | 0.29 | U | | 0.29 | U | | 0.29 | U | | 0.29 | U | |
| TOLUENE | | 0.13 | U | | 0.13 | U | | 0.13 | U | | 0.13 | U | |
| TOTAL XYLENES | | 0.28 | U | | 0.28 | U | | 0.28 | U | | 0.28 | U | |
| TRANS-1,2-DICHLOROETHENE | | 0.19 | U | | 0.19 | U | | 0.19 | U | | 0.19 | U | |
| TRANS-1,3-DICHLOROPROPENE | | 0.19 | U | | 0.19 | U | | 0.19 | U | | 0.19 | U | |
| TRICHLOROETHENE | | 0.17 | U | | 0.17 | U | | 0.17 | U | | 0.17 | U | |

| PROJ_NO: 04054 | NSAMPLE | MT-MW09S-082112 | | | MT-MW11S-082112 | | | MT-MW12S-082112 | | | TB-082112 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-14408-1 | LAB_ID | 240-14408-2 | | | 240-14408-3 | | | 240-14408-4 | | | 240-14408-1 | | |
| FRACTION: OV | SAMP_DATE | 8/21/2012 | | | 8/21/2012 | | | 8/21/2012 | | | 8/21/2012 | | |
| MEDIA: WATER | QC_TYPE | NM | | | NM | | | NM | | | NM | | |
| | UNITS | UG/L | | | UG/L | | | UG/L | | | UG/L | | |
| | PCT_SOLIDS | 0.0 | | | 0.0 | | | 0.0 | | | 0.0 | | |
| | DUP_OF | | | | | | | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| TRICHLOROFLUOROMETHANE | | 0.21 | U | | 0.21 | U | | 0.21 | U | | 0.21 | U | |
| VINYL ACETATE | | 0.19 | UR | C | 0.19 | UR | C | 0.19 | UR | C | 0.19 | UR | C |
| VINYL CHLORIDE | | 0.22 | U | | 0.22 | U | | 0.22 | U | | 0.22 | U | |

| PROJ_NO: 04054 | NSAMPLE | MT-MW09S-082112 | | | MT-MW11S-082112 | | | MT-MW12S-082112 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-14408-1 | LAB_ID | 240-14408-2 | | | 240-14408-3 | | | 240-14408-4 | | |
| FRACTION: OS | SAMP_DATE | 8/21/2012 | | | 8/21/2012 | | | 8/21/2012 | | |
| MEDIA: WATER | QC_TYPE | NM | | | NM | | | NM | | |
| | UNITS | UG/L | | | UG/L | | | UG/L | | |
| | PCT_SOLIDS | 0.0 | | | 0.0 | | | 0.0 | | |
| | DUP_OF | | | | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| 1,1-BIPHENYL | | 0.76 | U | | 0.76 | U | | 0.76 | U | |
| 1,4-DIOXANE | | 0.47 | U | | 0.47 | U | | 0.47 | U | |
| 2,2'-OXYBIS(1-CHLOROPROPANE) | | 0.38 | U | | 0.38 | U | | 0.38 | U | |
| 2,4,5-TRICHLOROPHENOL | | 0.29 | U | | 0.29 | U | | 0.29 | U | |
| 2,4,6-TRICHLOROPHENOL | | 0.76 | U | | 0.76 | U | | 0.76 | U | |
| 2,4-DICHLOROPHENOL | | 0.76 | U | | 0.76 | U | | 0.76 | U | |
| 2,4-DIMETHYLPHENOL | | 0.76 | U | | 0.76 | U | | 0.76 | U | |
| 2,4-DINITROPHENOL | | 2.3 | U | | 2.3 | U | | 2.3 | U | |
| 2,4-DINITROTOLUENE | | 0.26 | U | | 0.26 | U | | 0.26 | U | |
| 2,6-DINITROTOLUENE | | 0.76 | U | | 0.76 | U | | 0.76 | U | |
| 2-CHLORONAPHTHALENE | | 0.095 | U | | 0.095 | U | | 0.095 | U | |
| 2-CHLOROPHENOL | | 0.28 | U | | 0.28 | U | | 0.28 | U | |
| 2-METHYLNAPHTHALENE | | 0.095 | U | | 0.095 | U | | 0.095 | U | |
| 2-METHYLPHENOL | | 0.76 | U | | 0.76 | U | | 0.76 | U | |
| 2-NITROANILINE | | 0.76 | U | | 0.76 | U | | 0.76 | U | |
| 2-NITROPHENOL | | 0.27 | U | | 0.27 | U | | 0.27 | U | |
| 3&4-METHYLPHENOL | | 0.71 | U | | 0.71 | U | | 0.71 | U | |
| 3,3'-DICHLOROBENZIDINE | | 0.35 | U | | 0.35 | U | | 0.35 | U | |
| 3-NITROANILINE | | 0.27 | U | | 0.27 | U | | 0.27 | U | |
| 4,6-DINITRO-2-METHYLPHENOL | | 2.3 | U | | 2.3 | U | | 2.3 | U | |
| 4-BROMOPHENYL PHENYL ETHER | | 0.76 | U | | 0.76 | U | | 0.76 | U | |
| 4-CHLORO-3-METHYLPHENOL | | 0.76 | U | | 0.76 | U | | 0.76 | U | |
| 4-CHLOROANILINE | | 0.76 | U | | 0.76 | U | | 0.76 | U | |
| 4-CHLOROPHENYL PHENYL ETHER | | 0.29 | U | | 0.29 | U | | 0.29 | U | |
| 4-NITROANILINE | | 0.76 | U | | 0.76 | U | | 0.76 | U | |
| 4-NITROPHENOL | | 2.3 | U | | 2.3 | U | | 2.3 | U | |
| ACENAPHTHENE | | 0.095 | U | | 0.095 | U | | 0.095 | U | |
| ACENAPHTHYLENE | | 0.095 | U | | 0.095 | U | | 0.095 | U | |
| ACETOPHENONE | | 0.32 | U | | 0.32 | U | | 0.32 | U | |
| ANTHRACENE | | 0.095 | U | | 0.095 | U | | 0.095 | U | |
| ATRAZINE | | 0.32 | U | | 0.32 | U | | 0.32 | U | |
| BENZALDEHYDE | | 0.37 | U | | 0.37 | U | | 0.37 | U | |
| BENZO(A)ANTHRACENE | | 0.095 | U | | 0.095 | U | | 0.095 | U | |
| BENZO(A)PYRENE | | 0.095 | U | | 0.095 | U | | 0.095 | U | |
| BENZO(B)FLUORANTHENE | | 0.095 | U | | 0.095 | U | | 0.095 | U | |

| PROJ_NO: 04054 | NSAMPLE | MT-MW09S-082112 | | | MT-MW11S-082112 | | | MT-MW12S-082112 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-14408-1 | LAB_ID | 240-14408-2 | | | 240-14408-3 | | | 240-14408-4 | | |
| FRACTION: OS | SAMP_DATE | 8/21/2012 | | | 8/21/2012 | | | 8/21/2012 | | |
| MEDIA: WATER | QC_TYPE | NM | | | NM | | | NM | | |
| | UNITS | UG/L | | | UG/L | | | UG/L | | |
| | PCT_SOLIDS | 0.0 | | | 0.0 | | | 0.0 | | |
| | DUP_OF | | | | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| BENZO(G,H,I)PERYLENE | | 0.095 | U | | 0.095 | U | | 0.095 | U | |
| BENZO(K)FLUORANTHENE | | 0.095 | U | | 0.095 | U | | 0.095 | U | |
| BIS(2-CHLOROETHOXY)METHANE | | 0.3 | U | | 0.3 | U | | 0.3 | U | |
| BIS(2-CHLOROETHYL)ETHER | | 0.095 | U | | 0.095 | U | | 0.095 | U | |
| BIS(2-ETHYLHEXYL)PHTHALATE | | 1.5 | J | P | 1.5 | J | P | 1.1 | J | P |
| BUTYL BENZYL PHTHALATE | | 0.76 | U | | 0.76 | U | | 0.76 | U | |
| CAPROLACTAM | | 1.7 | J | P | 0.76 | U | | 0.76 | U | |
| CARBAZOLE | | 0.27 | U | | 0.27 | U | | 0.27 | U | |
| CHRYSENE | | 0.095 | U | | 0.095 | U | | 0.095 | U | |
| DIBENZO(A,H)ANTHRACENE | | 0.095 | U | | 0.095 | U | | 0.095 | U | |
| DIBENZOFURAN | | 0.095 | U | | 0.095 | U | | 0.095 | U | |
| DIETHYL PHTHALATE | | 0.57 | U | | 0.57 | U | | 0.57 | U | |
| DIMETHYL PHTHALATE | | 0.28 | U | | 0.28 | U | | 0.28 | U | |
| DI-N-BUTYL PHTHALATE | | 0.64 | U | | 0.64 | U | | 0.64 | U | |
| DI-N-OCTYL PHTHALATE | | 0.76 | U | | 0.76 | U | | 0.76 | U | |
| FLUORANTHENE | | 0.095 | U | | 0.095 | U | | 0.095 | U | |
| FLUORENE | | 0.095 | U | | 0.095 | U | | 0.095 | U | |
| HEXACHLOROBENZENE | | 0.095 | U | | 0.095 | U | | 0.095 | U | |
| HEXACHLOROBUTADIENE | | 0.26 | U | | 0.26 | U | | 0.26 | U | |
| HEXACHLOROCYCLOPENTADIENE | | 0.76 | U | | 0.76 | U | | 0.76 | U | |
| HEXACHLOROETHANE | | 0.76 | U | | 0.76 | U | | 0.76 | U | |
| INDENO(1,2,3-CD)PYRENE | | 0.095 | U | | 0.095 | U | | 0.095 | U | |
| ISOPHORONE | | 0.26 | U | | 0.26 | U | | 0.26 | U | |
| NAPHTHALENE | | 0.095 | U | | 0.095 | U | | 0.095 | U | |
| NITROBENZENE | | 0.038 | U | | 0.038 | U | | 0.038 | U | |
| N-NITROSODIMETHYLAMINE | | 0.3 | U | | 0.3 | U | | 0.3 | U | |
| N-NITROSO-DI-N-PROPYLAMINE | | 0.76 | U | | 0.76 | U | | 0.76 | U | |
| N-NITROSODIPHENYLAMINE | | 0.3 | U | | 0.3 | U | | 0.3 | U | |
| PENTACHLOROPHENOL | | 2.3 | U | | 2.3 | U | | 2.3 | U | |
| PHENANTHRENE | | 0.095 | U | | 0.095 | U | | 0.095 | U | |
| PHENOL | | 0.57 | U | | 0.57 | U | | 0.57 | U | |
| PYRENE | | 0.095 | U | | 0.095 | U | | 0.095 | U | |

| PROJ_NO: 04054 | NSAMPLE | MT-MW09S-082112 | | | MT-MW11S-082112 | | | MT-MW12S-082112 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-14408-1 | LAB_ID | 240-14408-2 | | | 240-14408-3 | | | 240-14408-4 | | |
| FRACTION: PET | SAMP_DATE | 8/21/2012 | | | 8/21/2012 | | | 8/21/2012 | | |
| MEDIA: WATER | QC_TYPE | NM | | | NM | | | NM | | |
| | UNITS | UG/L | | | UG/L | | | UG/L | | |
| | PCT_SOLIDS | 0.0 | | | 0.0 | | | 0.0 | | |
| | DUP_OF | | | | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| TPH (C06-C10) | | 56 | B | A | 61 | B | A | 64 | B | A |
| TPH (C10-C32) | | 470 | B | A | 410 | B | A | 240 | B | A |

| PROJ_NO: 04054 | NSAMPLE | MT-MW09S-082112 | | | MT-MW11S-082112 | | | MT-MW12S-082112 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-14408-1 | LAB_ID | 240-14408-2 | | | 240-14408-3 | | | 240-14408-4 | | |
| FRACTION: M | SAMP_DATE | 8/21/2012 | | | 8/21/2012 | | | 8/21/2012 | | |
| MEDIA: WATER | QC_TYPE | NM | | | NM | | | NM | | |
| | UNITS | UG/L | | | UG/L | | | UG/L | | |
| | PCT_SOLIDS | 0.0 | | | 0.0 | | | 0.0 | | |
| | DUP_OF | | | | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| ANTIMONY | | 1.9 | J | P | 1.3 | J | P | 0.49 | J | P |
| ARSENIC | | 0.6 | J | P | 1.2 | J | P | 0.75 | J | P |
| BARIUM | | 59 | | | 120 | | | 100 | | |
| BERYLLIUM | | 1.8 | | | 0.44 | J | P | 4.9 | | |
| CADMIUM | | 0.13 | U | | 0.13 | U | | 0.75 | J | CP |
| CHROMIUM | | 1.8 | J | P | 21 | | | 1.2 | J | P |
| COBALT | | 7.6 | | | 86 | | | 390 | | |
| COPPER | | 2.2 | B | A | 2.8 | K | C | 12 | | |
| LEAD | | 0.79 | J | P | 0.76 | J | P | 0.54 | J | P |
| MERCURY | | 0.12 | U | | 0.12 | U | | 0.12 | J | P |
| MOLYBDENUM | | 1.9 | B | A | 3.9 | B | A | 1.2 | B | A |
| NICKEL | | 12 | | | 140 | | | 690 | | |
| SELENIUM | | 0.62 | J | P | 0.57 | U | | 0.79 | J | P |
| SILVER | | 0.08 | U | | 0.08 | U | | 0.08 | U | |
| THALLIUM | | 0.57 | B | A | 0.37 | B | A | 0.38 | B | A |
| VANADIUM | | 0.84 | J | P | 2.6 | J | P | 0.87 | J | P |
| ZINC | | 43 | | | 160 | | | 670 | | |

| PROJ_NO: 04054 | NSAMPLE | MT-MW09S-082112 | | | MT-MW11S-082112 | | | MT-MW12S-082112 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-14408-1 | LAB_ID | 240-14408-2 | | | 240-14408-3 | | | 240-14408-4 | | |
| FRACTION: MF | SAMP_DATE | 8/21/2012 | | | 8/21/2012 | | | 8/21/2012 | | |
| MEDIA: WATER | QC_TYPE | NM | | | NM | | | NM | | |
| | UNITS | UG/L | | | UG/L | | | UG/L | | |
| | PCT_SOLIDS | 0.0 | | | 0.0 | | | 0.0 | | |
| | DUP_OF | | | | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| ANTIMONY | | 3 | | | 1.1 | J | P | 0.28 | J | P |
| ARSENIC | | 0.52 | J | P | 0.74 | J | P | 0.4 | U | |
| BARIUM | | 47 | | | 110 | | | 110 | | |
| BERYLLIUM | | 1.7 | | | 0.2 | U | | 1.9 | | |
| CADMIUM | | 0.13 | U | | 0.13 | U | | 0.42 | J | CP |
| CHROMIUM | | 0.71 | U | | 0.71 | U | | 0.71 | U | |
| COBALT | | 7.5 | | | 54 | | | 400 | | |
| COPPER | | 0.41 | B | A | 0.39 | B | A | 0.31 | B | A |
| LEAD | | 0.18 | U | | 0.18 | U | | 0.18 | U | |
| MERCURY | | 0.12 | U | | 0.12 | U | | 0.12 | U | |
| MOLYBDENUM | | 2.5 | B | A | 4.2 | B | A | 0.97 | B | A |
| NICKEL | | 12 | | | 83 | | | 680 | | |
| SELENIUM | | 0.57 | U | | 0.57 | U | | 0.57 | U | |
| SILVER | | 0.08 | U | | 0.08 | U | | 0.08 | U | |
| THALLIUM | | 0.44 | B | A | 0.3 | B | A | 0.33 | B | A |
| VANADIUM | | 0.44 | U | | 0.89 | J | P | 0.44 | U | |
| ZINC | | 43 | | | 11 | B | A | 580 | | |

## Appendix B

Results as Reported by the Laboratory

Client: Tetra Tech, Inc

Job Number: 240-14408-1

**Client Sample ID:** **MT-MW09S-082112**

Lab Sample ID: 240-14408-2
Client Matrix: Water

Date Sampled: 08/21/2012 1330
Date Received: 08/22/2012 0805

**8260B Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B | Analysis Batch: | 240-56479 | Instrument ID: | A3UX17 |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | UXR945.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 08/31/2012 2325 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 08/31/2012 2325 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 1.0 | U | 0.23 | 1.0 |
| 1,1,1-Trichloroethane | 1.0 | U | 0.22 | 1.0 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.18 | 1.0 |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0 | U | 0.28 | 1.0 |
| 1,1-Dichloroethane | 1.0 | U | 0.15 | 1.0 |
| 1,1-Dichloroethene | 1.0 | U | 0.19 | 1.0 |
| 1,1-Dichloropropene | 1.0 | U | 0.13 | 1.0 |
| 1,2,3-Trichlorobenzene | 1.0 | U | 0.17 | 1.0 |
| 1,2,3-Trichloropropane | 1.0 | U | 0.43 | 1.0 |
| 1,2,3-Trimethylbenzene | 5.0 | U | 0.0059 | 5.0 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 0.15 | 1.0 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 0.12 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | 2.0 | U | 0.67 | 2.0 |
| 1,2-Dichlorobenzene | 1.0 | U | 0.13 | 1.0 |
| 1,2-Dichloroethane | 1.0 | U | 0.22 | 1.0 |
| 1,2-Dichloropropane | 1.0 | U | 0.18 | 1.0 |
| 1,3-Dichlorobenzene | 1.0 | U | 0.14 | 1.0 |
| 1,3-Dichloropropane | 1.0 | U | 0.16 | 1.0 |
| 1,4-Dichlorobenzene | 1.0 | U | 0.13 | 1.0 |
| 2,2-Dichloropropane | 1.0 | U | 0.13 | 1.0 |
| 2-Chloroethyl vinyl ether | 10 | U | 0.99 | 10 |
| 2-Chlorotoluene | 1.0 | U | 0.11 | 1.0 |
| 2-Hexanone | 10 | U | 0.41 | 10 |
| Bromobenzene | 1.0 | U | 0.13 | 1.0 |
| Bromochloromethane | 1.0 | U | 0.29 | 1.0 |
| 4-Chlorotoluene | 1.0 | U | 0.18 | 1.0 |
| p-Isopropyltoluene | 1.0 | U | 0.12 | 1.0 |
| Acetone | 1.9 | J | 1.1 | 10 |
| Benzene | 1.0 | U | 0.13 | 1.0 |
| Bromoform | 1.0 | U | 0.64 | 1.0 |
| Bromomethane | 1.0 | U | 0.41 | 1.0 |
| Carbon disulfide | 2.9 | | 0.13 | 1.0 |
| Carbon tetrachloride | 1.0 | U | 0.13 | 1.0 |
| Chlorobenzene | 1.0 | U | 0.15 | 1.0 |
| Chloroethane | 1.0 | U | 0.29 | 1.0 |
| Chloroform | 1.0 | U | 0.16 | 1.0 |
| Chloromethane | 1.0 | U | 0.30 | 1.0 |
| cis-1,2-Dichloroethene | 1.0 | U | 0.17 | 1.0 |
| cis-1,3-Dichloropropene | 1.0 | U | 0.14 | 1.0 |
| Hexachlorobutadiene | 1.0 | U | 0.30 | 1.0 |
| Dibromomethane | 1.0 | U | 0.28 | 1.0 |
| Bromodichloromethane | 1.0 | U | 0.15 | 1.0 |
| Dichlorodifluoromethane | 1.0 | U | 0.31 | 1.0 |
| Ethylbenzene | 1.0 | U | 0.17 | 1.0 |
| 1,2-Dibromoethane | 1.0 | U | 0.24 | 1.0 |
| Diisopropyl ether | 10 | U | 1.5 | 10 |

Client: Tetra Tech, Inc

Job Number: 240-14408-1

**Client Sample ID:** **MT-MW09S-082112**

Lab Sample ID: 240-14408-2
Client Matrix: Water

Date Sampled: 08/21/2012 1330
Date Received: 08/22/2012 0805

**8260B Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B | Analysis Batch: | 240-56479 | Instrument ID: | A3UX17 |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | UXR945.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 08/31/2012 2325 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 08/31/2012 2325 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Naphthalene | 1.0 | U | 0.24 | 1.0 |
| m-Xylene & p-Xylene | 2.0 | U | 0.24 | 2.0 |
| n-Butylbenzene | 1.0 | U | 0.12 | 1.0 |
| Isopropylbenzene | 1.0 | U | 0.13 | 1.0 |
| n-Propylbenzene | 1.0 | U | 0.14 | 1.0 |
| 2-Butanone | 10 | U | 0.57 | 10 |
| 4-Methyl-2-pentanone | 10 | U | 0.32 | 10 |
| sec-Butylbenzene | 1.0 | U | 0.13 | 1.0 |
| Methyl tert-butyl ether | 5.0 | U | 0.17 | 5.0 |
| Tert-amyl-methyl ether (TAME) | 5.0 | U | 0.067 | 5.0 |
| Methylene Chloride | 1.0 | U | 0.33 | 1.0 |
| o-Xylene | 1.0 | U | 0.14 | 1.0 |
| Styrene | 1.0 | U | 0.11 | 1.0 |
| Ethyl-t-butyl ether (ETBE) | 5.0 | U | 0.11 | 5.0 |
| tert-Butylbenzene | 1.0 | U | 0.13 | 1.0 |
| Tetrachloroethene | 1.0 | U | 0.29 | 1.0 |
| Toluene | 1.0 | U | 0.13 | 1.0 |
| trans-1,2-Dichloroethene | 1.0 | U | 0.19 | 1.0 |
| trans-1,3-Dichloropropene | 1.0 | U | 0.19 | 1.0 |
| Trichloroethene | 1.0 | U | 0.17 | 1.0 |
| Trichlorofluoromethane | 1.0 | U | 0.21 | 1.0 |
| Vinyl acetate | 2.0 | U | 0.19 | 2.0 |
| Vinyl chloride | 1.0 | U | 0.22 | 1.0 |
| tert-Butyl alcohol | 50 | U | 3.9 | 50 |
| Xylenes, Total | 2.0 | U | 0.28 | 2.0 |
| Dibromochloromethane | 1.0 | U | 0.18 | 1.0 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 89 | | 63 - 129 |
| 4-Bromofluorobenzene (Surr) | 82 | | 66 - 117 |
| Toluene-d8 (Surr) | 84 | | 74 - 115 |
| Dibromofluoromethane (Surr) | 103 | | 75 - 121 |

Client: Tetra Tech, Inc

Job Number: 240-14408-1

**Client Sample ID:** **MT-MW09S-082112**

Lab Sample ID: 240-14408-2
Client Matrix: Water

Date Sampled: 08/21/2012 1330
Date Received: 08/22/2012 0805

**8260B Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B | Analysis Batch: | 240-56479 | Instrument ID: | A3UX17 |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | UXR945.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 08/31/2012 2325 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 08/31/2012 2325 | | | | |

**Tentatively Identified Compounds** **Number TIC's Found:** **0**

| Cas Number | Analyte | RT | Est. Result (ug/L) | Qualifier |
|---|---|---|---|---|
| | Tentatively Identified Compound | | None | |

Client: Tetra Tech, Inc

Job Number: 240-14408-1

**Client Sample ID:** **MT-MW11S-082112**

Lab Sample ID: 240-14408-3
Client Matrix: Water

Date Sampled: 08/21/2012 1105
Date Received: 08/22/2012 0805

**8260B Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B | Analysis Batch: | 240-56479 | Instrument ID: | A3UX17 |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | UXR946.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 08/31/2012 2347 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 08/31/2012 2347 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 1.0 | U | 0.23 | 1.0 |
| 1,1,1-Trichloroethane | 1.0 | U | 0.22 | 1.0 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.18 | 1.0 |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0 | U | 0.28 | 1.0 |
| 1,1-Dichloroethane | 1.0 | U | 0.15 | 1.0 |
| 1,1-Dichloroethene | 1.0 | U | 0.19 | 1.0 |
| 1,1-Dichloropropene | 1.0 | U | 0.13 | 1.0 |
| 1,2,3-Trichlorobenzene | 1.0 | U | 0.17 | 1.0 |
| 1,2,3-Trichloropropane | 1.0 | U | 0.43 | 1.0 |
| 1,2,3-Trimethylbenzene | 5.0 | U | 0.0059 | 5.0 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 0.15 | 1.0 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 0.12 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | 2.0 | U | 0.67 | 2.0 |
| 1,2-Dichlorobenzene | 1.0 | U | 0.13 | 1.0 |
| 1,2-Dichloroethane | 1.0 | U | 0.22 | 1.0 |
| 1,2-Dichloropropane | 1.0 | U | 0.18 | 1.0 |
| 1,3-Dichlorobenzene | 1.0 | U | 0.14 | 1.0 |
| 1,3-Dichloropropane | 1.0 | U | 0.16 | 1.0 |
| 1,4-Dichlorobenzene | 1.0 | U | 0.13 | 1.0 |
| 2,2-Dichloropropane | 1.0 | U | 0.13 | 1.0 |
| 2-Chloroethyl vinyl ether | 10 | U | 0.99 | 10 |
| 2-Chlorotoluene | 1.0 | U | 0.11 | 1.0 |
| 2-Hexanone | 10 | U | 0.41 | 10 |
| Bromobenzene | 1.0 | U | 0.13 | 1.0 |
| Bromochloromethane | 1.0 | U | 0.29 | 1.0 |
| 4-Chlorotoluene | 1.0 | U | 0.18 | 1.0 |
| p-Isopropyltoluene | 1.0 | U | 0.12 | 1.0 |
| Acetone | 2.8 | J | 1.1 | 10 |
| Benzene | 1.0 | U | 0.13 | 1.0 |
| Bromoform | 1.0 | U | 0.64 | 1.0 |
| Bromomethane | 1.0 | U | 0.41 | 1.0 |
| Carbon disulfide | 0.46 | J | 0.13 | 1.0 |
| Carbon tetrachloride | 1.0 | U | 0.13 | 1.0 |
| Chlorobenzene | 1.0 | U | 0.15 | 1.0 |
| Chloroethane | 1.0 | U | 0.29 | 1.0 |
| Chloroform | 0.36 | J | 0.16 | 1.0 |
| Chloromethane | 1.0 | U | 0.30 | 1.0 |
| cis-1,2-Dichloroethene | 1.0 | U | 0.17 | 1.0 |
| cis-1,3-Dichloropropene | 1.0 | U | 0.14 | 1.0 |
| Hexachlorobutadiene | 1.0 | U | 0.30 | 1.0 |
| Dibromomethane | 1.0 | U | 0.28 | 1.0 |
| Bromodichloromethane | 1.0 | U | 0.15 | 1.0 |
| Dichlorodifluoromethane | 1.0 | U | 0.31 | 1.0 |
| Ethylbenzene | 1.0 | U | 0.17 | 1.0 |
| 1,2-Dibromoethane | 1.0 | U | 0.24 | 1.0 |
| Diisopropyl ether | 10 | U | 1.5 | 10 |

Client: Tetra Tech, Inc

Job Number: 240-14408-1

**Client Sample ID:** **MT-MW11S-082112**

Lab Sample ID: 240-14408-3
Client Matrix: Water

Date Sampled: 08/21/2012 1105
Date Received: 08/22/2012 0805

**8260B Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B | Analysis Batch: | 240-56479 | Instrument ID: | A3UX17 |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | UXR946.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 08/31/2012 2347 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 08/31/2012 2347 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Naphthalene | 1.0 | U | 0.24 | 1.0 |
| m-Xylene & p-Xylene | 2.0 | U | 0.24 | 2.0 |
| n-Butylbenzene | 1.0 | U | 0.12 | 1.0 |
| Isopropylbenzene | 1.0 | U | 0.13 | 1.0 |
| n-Propylbenzene | 1.0 | U | 0.14 | 1.0 |
| 2-Butanone | 10 | U | 0.57 | 10 |
| 4-Methyl-2-pentanone | 10 | U | 0.32 | 10 |
| sec-Butylbenzene | 1.0 | U | 0.13 | 1.0 |
| Methyl tert-butyl ether | 5.0 | U | 0.17 | 5.0 |
| Tert-amyl-methyl ether (TAME) | 5.0 | U | 0.067 | 5.0 |
| Methylene Chloride | 1.0 | U | 0.33 | 1.0 |
| o-Xylene | 1.0 | U | 0.14 | 1.0 |
| Styrene | 1.0 | U | 0.11 | 1.0 |
| Ethyl-t-butyl ether (ETBE) | 5.0 | U | 0.11 | 5.0 |
| tert-Butylbenzene | 1.0 | U | 0.13 | 1.0 |
| Tetrachloroethene | 1.0 | U | 0.29 | 1.0 |
| Toluene | 1.0 | U | 0.13 | 1.0 |
| trans-1,2-Dichloroethene | 1.0 | U | 0.19 | 1.0 |
| trans-1,3-Dichloropropene | 1.0 | U | 0.19 | 1.0 |
| Trichloroethene | 1.0 | U | 0.17 | 1.0 |
| Trichlorofluoromethane | 1.0 | U | 0.21 | 1.0 |
| Vinyl acetate | 2.0 | U | 0.19 | 2.0 |
| Vinyl chloride | 1.0 | U | 0.22 | 1.0 |
| tert-Butyl alcohol | 50 | U | 3.9 | 50 |
| Xylenes, Total | 2.0 | U | 0.28 | 2.0 |
| Dibromochloromethane | 1.0 | U | 0.18 | 1.0 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 97 | | 63 - 129 |
| 4-Bromofluorobenzene (Surr) | 90 | | 66 - 117 |
| Toluene-d8 (Surr) | 91 | | 74 - 115 |
| Dibromofluoromethane (Surr) | 112 | | 75 - 121 |

Client: Tetra Tech, Inc

Job Number: 240-14408-1

**Client Sample ID:** **MT-MW11S-082112**

Lab Sample ID: 240-14408-3
Client Matrix: Water

Date Sampled: 08/21/2012 1105
Date Received: 08/22/2012 0805

**8260B Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B | Analysis Batch: | 240-56479 | Instrument ID: | A3UX17 |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | UXR946.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 08/31/2012 2347 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 08/31/2012 2347 | | | | |

**Tentatively Identified Compounds** **Number TIC's Found:** **0**

| Cas Number | Analyte | RT | Est. Result (ug/L) | Qualifier |
|---|---|---|---|---|
| | Tentatively Identified Compound | | None | |

Client: Tetra Tech, Inc

Job Number: 240-14408-1

**Client Sample ID:** **MT-MW12S-082112**

Lab Sample ID: 240-14408-4
Client Matrix: Water

Date Sampled: 08/21/2012 1505
Date Received: 08/22/2012 0805

**8260B Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B | Analysis Batch: | 240-56479 | Instrument ID: | A3UX17 |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | UXR947.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 09/01/2012 0009 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 09/01/2012 0009 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 1.0 | U | 0.23 | 1.0 |
| 1,1,1-Trichloroethane | 1.0 | U | 0.22 | 1.0 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.18 | 1.0 |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0 | U | 0.28 | 1.0 |
| 1,1-Dichloroethane | 1.0 | U | 0.15 | 1.0 |
| 1,1-Dichloroethene | 1.0 | U | 0.19 | 1.0 |
| 1,1-Dichloropropene | 1.0 | U | 0.13 | 1.0 |
| 1,2,3-Trichlorobenzene | 1.0 | U | 0.17 | 1.0 |
| 1,2,3-Trichloropropane | 1.0 | U | 0.43 | 1.0 |
| 1,2,3-Trimethylbenzene | 5.0 | U | 0.0059 | 5.0 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 0.15 | 1.0 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 0.12 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | 2.0 | U | 0.67 | 2.0 |
| 1,2-Dichlorobenzene | 1.0 | U | 0.13 | 1.0 |
| 1,2-Dichloroethane | 1.0 | U | 0.22 | 1.0 |
| 1,2-Dichloropropane | 1.0 | U | 0.18 | 1.0 |
| 1,3-Dichlorobenzene | 1.0 | U | 0.14 | 1.0 |
| 1,3-Dichloropropane | 1.0 | U | 0.16 | 1.0 |
| 1,4-Dichlorobenzene | 1.0 | U | 0.13 | 1.0 |
| 2,2-Dichloropropane | 1.0 | U | 0.13 | 1.0 |
| 2-Chloroethyl vinyl ether | 10 | U | 0.99 | 10 |
| 2-Chlorotoluene | 1.0 | U | 0.11 | 1.0 |
| 2-Hexanone | 10 | U | 0.41 | 10 |
| Bromobenzene | 1.0 | U | 0.13 | 1.0 |
| Bromochloromethane | 1.0 | U | 0.29 | 1.0 |
| 4-Chlorotoluene | 1.0 | U | 0.18 | 1.0 |
| p-Isopropyltoluene | 1.0 | U | 0.12 | 1.0 |
| Acetone | 10 | U | 1.1 | 10 |
| Benzene | 1.0 | U | 0.13 | 1.0 |
| Bromoform | 1.0 | U | 0.64 | 1.0 |
| Bromomethane | 1.0 | U | 0.41 | 1.0 |
| Carbon disulfide | 1.0 | U | 0.13 | 1.0 |
| Carbon tetrachloride | 0.34 | J | 0.13 | 1.0 |
| Chlorobenzene | 1.0 | U | 0.15 | 1.0 |
| Chloroethane | 1.0 | U | 0.29 | 1.0 |
| Chloroform | 11 | | 0.16 | 1.0 |
| Chloromethane | 1.0 | U | 0.30 | 1.0 |
| cis-1,2-Dichloroethene | 1.0 | U | 0.17 | 1.0 |
| cis-1,3-Dichloropropene | 1.0 | U | 0.14 | 1.0 |
| Hexachlorobutadiene | 1.0 | U | 0.30 | 1.0 |
| Dibromomethane | 1.0 | U | 0.28 | 1.0 |
| Bromodichloromethane | 1.0 | U | 0.15 | 1.0 |
| Dichlorodifluoromethane | 1.0 | U | 0.31 | 1.0 |
| Ethylbenzene | 1.0 | U | 0.17 | 1.0 |
| 1,2-Dibromoethane | 1.0 | U | 0.24 | 1.0 |
| Diisopropyl ether | 10 | U | 1.5 | 10 |

Client: Tetra Tech, Inc

Job Number: 240-14408-1

**Client Sample ID:** **MT-MW12S-082112**

Lab Sample ID: 240-14408-4
Client Matrix: Water

Date Sampled: 08/21/2012 1505
Date Received: 08/22/2012 0805

**8260B Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B | Analysis Batch: | 240-56479 | Instrument ID: | A3UX17 |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | UXR947.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 09/01/2012 0009 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 09/01/2012 0009 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Naphthalene | 0.54 | J | 0.24 | 1.0 |
| m-Xylene & p-Xylene | 2.0 | U | 0.24 | 2.0 |
| n-Butylbenzene | 1.0 | U | 0.12 | 1.0 |
| Isopropylbenzene | 1.0 | U | 0.13 | 1.0 |
| n-Propylbenzene | 1.0 | U | 0.14 | 1.0 |
| 2-Butanone | 10 | U | 0.57 | 10 |
| 4-Methyl-2-pentanone | 10 | U | 0.32 | 10 |
| sec-Butylbenzene | 1.0 | U | 0.13 | 1.0 |
| Methyl tert-butyl ether | 5.0 | U | 0.17 | 5.0 |
| Tert-amyl-methyl ether (TAME) | 5.0 | U | 0.067 | 5.0 |
| Methylene Chloride | 1.0 | U | 0.33 | 1.0 |
| o-Xylene | 1.0 | U | 0.14 | 1.0 |
| Styrene | 1.0 | U | 0.11 | 1.0 |
| Ethyl-t-butyl ether (ETBE) | 5.0 | U | 0.11 | 5.0 |
| tert-Butylbenzene | 1.0 | U | 0.13 | 1.0 |
| Tetrachloroethene | 1.0 | U | 0.29 | 1.0 |
| Toluene | 1.0 | U | 0.13 | 1.0 |
| trans-1,2-Dichloroethene | 1.0 | U | 0.19 | 1.0 |
| trans-1,3-Dichloropropene | 1.0 | U | 0.19 | 1.0 |
| Trichloroethene | 1.0 | U | 0.17 | 1.0 |
| Trichlorofluoromethane | 1.0 | U | 0.21 | 1.0 |
| Vinyl acetate | 2.0 | U | 0.19 | 2.0 |
| Vinyl chloride | 1.0 | U | 0.22 | 1.0 |
| tert-Butyl alcohol | 50 | U | 3.9 | 50 |
| Xylenes, Total | 2.0 | U | 0.28 | 2.0 |
| Dibromochloromethane | 1.0 | U | 0.18 | 1.0 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 92 | | 63 - 129 |
| 4-Bromofluorobenzene (Surr) | 83 | | 66 - 117 |
| Toluene-d8 (Surr) | 84 | | 74 - 115 |
| Dibromofluoromethane (Surr) | 107 | | 75 - 121 |

Client: Tetra Tech, Inc

Job Number: 240-14408-1

**Client Sample ID:** **MT-MW12S-082112**

Lab Sample ID: 240-14408-4
Client Matrix: Water

Date Sampled: 08/21/2012 1505
Date Received: 08/22/2012 0805

**8260B Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B | Analysis Batch: | 240-56479 | Instrument ID: | A3UX17 |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | UXR947.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 09/01/2012 0009 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 09/01/2012 0009 | | | | |

**Tentatively Identified Compounds** **Number TIC's Found:** **0**

| Cas Number | Analyte | RT | Est. Result (ug/L) | Qualifier |
|---|---|---|---|---|
| | Tentatively Identified Compound | | None | |

Client: Tetra Tech, Inc

Job Number: 240-14408-1

**Client Sample ID:** **TB-082112**

Lab Sample ID: 240-14408-1TB
Client Matrix: Water

Date Sampled: 08/21/2012 0000
Date Received: 08/22/2012 0805

**8260B Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B | Analysis Batch: | 240-56479 | Instrument ID: | A3UX17 |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | UXR944.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 08/31/2012 2302 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 08/31/2012 2302 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 1.0 | U | 0.23 | 1.0 |
| 1,1,1-Trichloroethane | 1.0 | U | 0.22 | 1.0 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.18 | 1.0 |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0 | U | 0.28 | 1.0 |
| 1,1-Dichloroethane | 1.0 | U | 0.15 | 1.0 |
| 1,1-Dichloroethene | 1.0 | U | 0.19 | 1.0 |
| 1,1-Dichloropropene | 1.0 | U | 0.13 | 1.0 |
| 1,2,3-Trichlorobenzene | 1.0 | U | 0.17 | 1.0 |
| 1,2,3-Trichloropropane | 1.0 | U | 0.43 | 1.0 |
| 1,2,3-Trimethylbenzene | 5.0 | U | 0.0059 | 5.0 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 0.15 | 1.0 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 0.12 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | 2.0 | U | 0.67 | 2.0 |
| 1,2-Dichlorobenzene | 1.0 | U | 0.13 | 1.0 |
| 1,2-Dichloroethane | 1.0 | U | 0.22 | 1.0 |
| 1,2-Dichloropropane | 1.0 | U | 0.18 | 1.0 |
| 1,3-Dichlorobenzene | 1.0 | U | 0.14 | 1.0 |
| 1,3-Dichloropropane | 1.0 | U | 0.16 | 1.0 |
| 1,4-Dichlorobenzene | 1.0 | U | 0.13 | 1.0 |
| 2,2-Dichloropropane | 1.0 | U | 0.13 | 1.0 |
| 2-Chloroethyl vinyl ether | 10 | U | 0.99 | 10 |
| 2-Chlorotoluene | 1.0 | U | 0.11 | 1.0 |
| 2-Hexanone | 10 | U | 0.41 | 10 |
| Bromobenzene | 1.0 | U | 0.13 | 1.0 |
| Bromochloromethane | 1.0 | U | 0.29 | 1.0 |
| 4-Chlorotoluene | 1.0 | U | 0.18 | 1.0 |
| p-Isopropyltoluene | 1.0 | U | 0.12 | 1.0 |
| Acetone | 10 | U | 1.1 | 10 |
| Benzene | 1.0 | U | 0.13 | 1.0 |
| Bromoform | 1.0 | U | 0.64 | 1.0 |
| Bromomethane | 1.0 | U | 0.41 | 1.0 |
| Carbon disulfide | 1.0 | U | 0.13 | 1.0 |
| Carbon tetrachloride | 1.0 | U | 0.13 | 1.0 |
| Chlorobenzene | 1.0 | U | 0.15 | 1.0 |
| Chloroethane | 1.0 | U | 0.29 | 1.0 |
| Chloroform | 1.0 | U | 0.16 | 1.0 |
| Chloromethane | 1.0 | U | 0.30 | 1.0 |
| cis-1,2-Dichloroethene | 1.0 | U | 0.17 | 1.0 |
| cis-1,3-Dichloropropene | 1.0 | U | 0.14 | 1.0 |
| Hexachlorobutadiene | 1.0 | U | 0.30 | 1.0 |
| Dibromomethane | 1.0 | U | 0.28 | 1.0 |
| Bromodichloromethane | 1.0 | U | 0.15 | 1.0 |
| Dichlorodifluoromethane | 1.0 | U | 0.31 | 1.0 |
| Ethylbenzene | 1.0 | U | 0.17 | 1.0 |
| 1,2-Dibromoethane | 1.0 | U | 0.24 | 1.0 |
| Diisopropyl ether | 10 | U | 1.5 | 10 |

Client: Tetra Tech, Inc

Job Number: 240-14408-1

**Client Sample ID:** **TB-082112**

Lab Sample ID: 240-14408-1TB

Client Matrix: Water

Date Sampled: 08/21/2012 0000

Date Received: 08/22/2012 0805

**8260B Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B | Analysis Batch: | 240-56479 | Instrument ID: | A3UX17 |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | UXR944.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 08/31/2012 2302 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 08/31/2012 2302 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Naphthalene | 1.0 | U | 0.24 | 1.0 |
| m-Xylene & p-Xylene | 2.0 | U | 0.24 | 2.0 |
| n-Butylbenzene | 1.0 | U | 0.12 | 1.0 |
| Isopropylbenzene | 1.0 | U | 0.13 | 1.0 |
| n-Propylbenzene | 1.0 | U | 0.14 | 1.0 |
| 2-Butanone | 10 | U | 0.57 | 10 |
| 4-Methyl-2-pentanone | 10 | U | 0.32 | 10 |
| sec-Butylbenzene | 1.0 | U | 0.13 | 1.0 |
| Methyl tert-butyl ether | 5.0 | U | 0.17 | 5.0 |
| Tert-amyl-methyl ether (TAME) | 5.0 | U | 0.067 | 5.0 |
| Methylene Chloride | 1.0 | U | 0.33 | 1.0 |
| o-Xylene | 1.0 | U | 0.14 | 1.0 |
| Styrene | 1.0 | U | 0.11 | 1.0 |
| Ethyl-t-butyl ether (ETBE) | 5.0 | U | 0.11 | 5.0 |
| tert-Butylbenzene | 1.0 | U | 0.13 | 1.0 |
| Tetrachloroethene | 1.0 | U | 0.29 | 1.0 |
| Toluene | 1.0 | U | 0.13 | 1.0 |
| trans-1,2-Dichloroethene | 1.0 | U | 0.19 | 1.0 |
| trans-1,3-Dichloropropene | 1.0 | U | 0.19 | 1.0 |
| Trichloroethene | 1.0 | U | 0.17 | 1.0 |
| Trichlorofluoromethane | 1.0 | U | 0.21 | 1.0 |
| Vinyl acetate | 2.0 | U | 0.19 | 2.0 |
| Vinyl chloride | 1.0 | U | 0.22 | 1.0 |
| tert-Butyl alcohol | 50 | U | 3.9 | 50 |
| Xylenes, Total | 2.0 | U | 0.28 | 2.0 |
| Dibromochloromethane | 1.0 | U | 0.18 | 1.0 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 88 | | 63 - 129 |
| 4-Bromofluorobenzene (Surr) | 82 | | 66 - 117 |
| Toluene-d8 (Surr) | 84 | | 74 - 115 |
| Dibromofluoromethane (Surr) | 102 | | 75 - 121 |

Client: Tetra Tech, Inc

Job Number: 240-14408-1

**Client Sample ID:** **TB-082112**

Lab Sample ID: 240-14408-1TB
Client Matrix: Water

Date Sampled: 08/21/2012 0000
Date Received: 08/22/2012 0805

**8260B Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B | Analysis Batch: | 240-56479 | Instrument ID: | A3UX17 |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | UXR944.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 08/31/2012 2302 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 08/31/2012 2302 | | | | |

**Tentatively Identified Compounds** **Number TIC's Found:** **1**

| Cas Number | Analyte | RT | Est. Result (ug/L) | Qualifier |
|---|---|---|---|---|
| 1066-40-6 | Silanol, trimethyl- | 4.68 | 1.0 | T J N |

Client: Tetra Tech, Inc

Job Number: 240-14408-1

**Client Sample ID:** **MT-MW09S-082112**

Lab Sample ID: 240-14408-2
Client Matrix: Water

Date Sampled: 08/21/2012 1330
Date Received: 08/22/2012 0805

**8270D Semivolatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8270D | Analysis Batch: | 240-56877 | Instrument ID: | A4HP9 |
| Prep Method: | 3520C | Prep Batch: | 240-55629 | Lab File ID: | 20906024.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1050 mL |
| Analysis Date: | 09/06/2012 1852 | | | Final Weight/Volume: | 2 mL |
| Prep Date: | 08/24/2012 1111 | | | Injection Volume: | 1 uL |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| 1,1'-Biphenyl | 0.95 | U | 0.76 | 0.95 |
| 1,4-Dioxane | 0.95 | U | 0.47 | 0.95 |
| 2,4,6-Trichlorophenol | 4.8 | U | 0.76 | 4.8 |
| 2,4,5-Trichlorophenol | 4.8 | U | 0.29 | 4.8 |
| 2,4-Dichlorophenol | 1.9 | U | 0.76 | 1.9 |
| 2,4-Dimethylphenol | 1.9 | U | 0.76 | 1.9 |
| 2,4-Dinitrophenol | 4.8 | U | 2.3 | 4.8 |
| 2,4-Dinitrotoluene | 4.8 | U | 0.26 | 4.8 |
| 2-Chloronaphthalene | 0.95 | U | 0.095 | 0.95 |
| 2-Chlorophenol | 0.95 | U | 0.28 | 0.95 |
| 2-Methylnaphthalene | 0.19 | U | 0.095 | 0.19 |
| 2-Methylphenol | 0.95 | U | 0.76 | 0.95 |
| 2-Nitroaniline | 1.9 | U | 0.76 | 1.9 |
| 2-Nitrophenol | 1.9 | U | 0.27 | 1.9 |
| 3 & 4 Methylphenol | 1.9 | U | 0.71 | 1.9 |
| 3,3'-Dichlorobenzidine | 4.8 | U | 0.35 | 4.8 |
| 3-Nitroaniline | 1.9 | U | 0.27 | 1.9 |
| 4,6-Dinitro-2-methylphenol | 4.8 | U | 2.3 | 4.8 |
| 4-Bromophenyl phenyl ether | 1.9 | U | 0.76 | 1.9 |
| 4-Chloro-3-methylphenol | 1.9 | U | 0.76 | 1.9 |
| 4-Chloroaniline | 1.9 | U | 0.76 | 1.9 |
| 4-Chlorophenyl phenyl ether | 1.9 | U | 0.29 | 1.9 |
| 4-Nitroaniline | 1.9 | U | 0.76 | 1.9 |
| Acenaphthene | 0.19 | U | 0.095 | 0.19 |
| Acenaphthylene | 0.19 | U | 0.095 | 0.19 |
| Acetophenone | 0.95 | U | 0.32 | 0.95 |
| Anthracene | 0.19 | U | 0.095 | 0.19 |
| Atrazine | 0.95 | U | 0.32 | 0.95 |
| Benzaldehyde | 0.95 | U * | 0.37 | 0.95 |
| Benzo[a]anthracene | 0.19 | U | 0.095 | 0.19 |
| Benzo[a]pyrene | 0.19 | U | 0.095 | 0.19 |
| Benzo[b]fluoranthene | 0.19 | U | 0.095 | 0.19 |
| Benzo[g,h,i]perylene | 0.19 | U | 0.095 | 0.19 |
| Benzo[k]fluoranthene | 0.19 | U | 0.095 | 0.19 |
| Bis(2-chloroethoxy)methane | 0.95 | U | 0.30 | 0.95 |
| Bis(2-chloroethyl)ether | 0.95 | U | 0.095 | 0.95 |
| Bis(2-ethylhexyl) phthalate | 1.5 | J | 0.76 | 1.9 |
| Butyl benzyl phthalate | 0.95 | U | 0.76 | 0.95 |
| Caprolactam | 1.7 | J | 0.76 | 4.8 |
| Carbazole | 0.95 | U | 0.27 | 0.95 |
| Chrysene | 0.19 | U | 0.095 | 0.19 |
| Di-n-butyl phthalate | 0.95 | U | 0.64 | 0.95 |
| Di-n-octyl phthalate | 0.95 | U | 0.76 | 0.95 |
| Dibenzo(a,h)anthracene | 0.19 | U | 0.095 | 0.19 |
| Dibenzofuran | 0.95 | U | 0.095 | 0.95 |
| Diethyl phthalate | 0.95 | U | 0.57 | 0.95 |

Client: Tetra Tech, Inc

Job Number: 240-14408-1

**Client Sample ID:** **MT-MW09S-082112**

Lab Sample ID: 240-14408-2
Client Matrix: Water

Date Sampled: 08/21/2012 1330
Date Received: 08/22/2012 0805

**8270D Semivolatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8270D | Analysis Batch: | 240-56877 | Instrument ID: | A4HP9 |
| Prep Method: | 3520C | Prep Batch: | 240-55629 | Lab File ID: | 20906024.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1050 mL |
| Analysis Date: | 09/06/2012 1852 | | | Final Weight/Volume: | 2 mL |
| Prep Date: | 08/24/2012 1111 | | | Injection Volume: | 1 uL |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Dimethyl phthalate | 0.95 | U | 0.28 | 0.95 |
| Fluoranthene | 0.19 | U | 0.095 | 0.19 |
| Fluorene | 0.19 | U | 0.095 | 0.19 |
| Hexachlorobenzene | 0.19 | U | 0.095 | 0.19 |
| Hexachlorobutadiene | 0.95 | U | 0.26 | 0.95 |
| Hexachlorocyclopentadiene | 9.5 | U | 0.76 | 9.5 |
| Hexachloroethane | 0.95 | U | 0.76 | 0.95 |
| Indeno[1,2,3-cd]pyrene | 0.19 | U | 0.095 | 0.19 |
| Isophorone | 0.95 | U | 0.26 | 0.95 |
| N-Nitrosodi-n-propylamine | 0.95 | U | 0.76 | 0.95 |
| N-Nitrosodimethylamine | 0.95 | U | 0.30 | 0.95 |
| N-Nitrosodiphenylamine | 0.95 | U | 0.30 | 0.95 |
| Naphthalene | 0.19 | U | 0.095 | 0.19 |
| Nitrobenzene | 0.95 | U | 0.038 | 0.95 |
| Pentachlorophenol | 4.8 | U | 2.3 | 4.8 |
| Phenanthrene | 0.19 | U | 0.095 | 0.19 |
| Phenol | 0.95 | U | 0.57 | 0.95 |
| Pyrene | 0.19 | U | 0.095 | 0.19 |
| 2,2'-oxybis[1-chloropropane] | 0.95 | U | 0.38 | 0.95 |
| 2,6-Dinitrotoluene | 4.8 | U | 0.76 | 4.8 |
| 4-Nitrophenol | 4.8 | U | 2.3 | 4.8 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| Terphenyl-d14 (Surr) | 44 | | 24 - 110 |
| Phenol-d5 (Surr) | 74 | | 21 - 110 |
| Nitrobenzene-d5 (Surr) | 66 | | 21 - 110 |
| 2-Fluorophenol (Surr) | 71 | | 10 - 110 |
| 2-Fluorobiphenyl (Surr) | 66 | | 20 - 110 |
| 2,4,6-Tribromophenol (Surr) | 86 | | 21 - 110 |

Client: Tetra Tech, Inc

Job Number: 240-14408-1

**Client Sample ID:** **MT-MW11S-082112**

Lab Sample ID: 240-14408-3
Client Matrix: Water

Date Sampled: 08/21/2012 1105
Date Received: 08/22/2012 0805

**8270D Semivolatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8270D | Analysis Batch: | 240-56877 | Instrument ID: | A4HP9 |
| Prep Method: | 3520C | Prep Batch: | 240-55629 | Lab File ID: | 20906025.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1050 mL |
| Analysis Date: | 09/06/2012 1911 | | | Final Weight/Volume: | 2 mL |
| Prep Date: | 08/24/2012 1111 | | | Injection Volume: | 1 uL |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| 1,1'-Biphenyl | 0.95 | U | 0.76 | 0.95 |
| 1,4-Dioxane | 0.95 | U | 0.47 | 0.95 |
| 2,4,6-Trichlorophenol | 4.8 | U | 0.76 | 4.8 |
| 2,4,5-Trichlorophenol | 4.8 | U | 0.29 | 4.8 |
| 2,4-Dichlorophenol | 1.9 | U | 0.76 | 1.9 |
| 2,4-Dimethylphenol | 1.9 | U | 0.76 | 1.9 |
| 2,4-Dinitrophenol | 4.8 | U | 2.3 | 4.8 |
| 2,4-Dinitrotoluene | 4.8 | U | 0.26 | 4.8 |
| 2-Chloronaphthalene | 0.95 | U | 0.095 | 0.95 |
| 2-Chlorophenol | 0.95 | U | 0.28 | 0.95 |
| 2-Methylnaphthalene | 0.19 | U | 0.095 | 0.19 |
| 2-Methylphenol | 0.95 | U | 0.76 | 0.95 |
| 2-Nitroaniline | 1.9 | U | 0.76 | 1.9 |
| 2-Nitrophenol | 1.9 | U | 0.27 | 1.9 |
| 3 & 4 Methylphenol | 1.9 | U | 0.71 | 1.9 |
| 3,3'-Dichlorobenzidine | 4.8 | U | 0.35 | 4.8 |
| 3-Nitroaniline | 1.9 | U | 0.27 | 1.9 |
| 4,6-Dinitro-2-methylphenol | 4.8 | U | 2.3 | 4.8 |
| 4-Bromophenyl phenyl ether | 1.9 | U | 0.76 | 1.9 |
| 4-Chloro-3-methylphenol | 1.9 | U | 0.76 | 1.9 |
| 4-Chloroaniline | 1.9 | U | 0.76 | 1.9 |
| 4-Chlorophenyl phenyl ether | 1.9 | U | 0.29 | 1.9 |
| 4-Nitroaniline | 1.9 | U | 0.76 | 1.9 |
| Acenaphthene | 0.19 | U | 0.095 | 0.19 |
| Acenaphthylene | 0.19 | U | 0.095 | 0.19 |
| Acetophenone | 0.95 | U | 0.32 | 0.95 |
| Anthracene | 0.19 | U | 0.095 | 0.19 |
| Atrazine | 0.95 | U | 0.32 | 0.95 |
| Benzaldehyde | 0.95 | U * | 0.37 | 0.95 |
| Benzo[a]anthracene | 0.19 | U | 0.095 | 0.19 |
| Benzo[a]pyrene | 0.19 | U | 0.095 | 0.19 |
| Benzo[b]fluoranthene | 0.19 | U | 0.095 | 0.19 |
| Benzo[g,h,i]perylene | 0.19 | U | 0.095 | 0.19 |
| Benzo[k]fluoranthene | 0.19 | U | 0.095 | 0.19 |
| Bis(2-chloroethoxy)methane | 0.95 | U | 0.30 | 0.95 |
| Bis(2-chloroethyl)ether | 0.95 | U | 0.095 | 0.95 |
| Bis(2-ethylhexyl) phthalate | 1.5 | J | 0.76 | 1.9 |
| Butyl benzyl phthalate | 0.95 | U | 0.76 | 0.95 |
| Caprolactam | 4.8 | U | 0.76 | 4.8 |
| Carbazole | 0.95 | U | 0.27 | 0.95 |
| Chrysene | 0.19 | U | 0.095 | 0.19 |
| Di-n-butyl phthalate | 0.95 | U | 0.64 | 0.95 |
| Di-n-octyl phthalate | 0.95 | U | 0.76 | 0.95 |
| Dibenzo(a,h)anthracene | 0.19 | U | 0.095 | 0.19 |
| Dibenzofuran | 0.95 | U | 0.095 | 0.95 |
| Diethyl phthalate | 0.95 | U | 0.57 | 0.95 |

Client: Tetra Tech, Inc

Job Number: 240-14408-1

**Client Sample ID:** **MT-MW11S-082112**

Lab Sample ID: 240-14408-3
Client Matrix: Water

Date Sampled: 08/21/2012 1105
Date Received: 08/22/2012 0805

**8270D Semivolatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8270D | Analysis Batch: | 240-56877 | Instrument ID: | A4HP9 |
| Prep Method: | 3520C | Prep Batch: | 240-55629 | Lab File ID: | 20906025.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1050 mL |
| Analysis Date: | 09/06/2012 1911 | | | Final Weight/Volume: | 2 mL |
| Prep Date: | 08/24/2012 1111 | | | Injection Volume: | 1 uL |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Dimethyl phthalate | 0.95 | U | 0.28 | 0.95 |
| Fluoranthene | 0.19 | U | 0.095 | 0.19 |
| Fluorene | 0.19 | U | 0.095 | 0.19 |
| Hexachlorobenzene | 0.19 | U | 0.095 | 0.19 |
| Hexachlorobutadiene | 0.95 | U | 0.26 | 0.95 |
| Hexachlorocyclopentadiene | 9.5 | U | 0.76 | 9.5 |
| Hexachloroethane | 0.95 | U | 0.76 | 0.95 |
| Indeno[1,2,3-cd]pyrene | 0.19 | U | 0.095 | 0.19 |
| Isophorone | 0.95 | U | 0.26 | 0.95 |
| N-Nitrosodi-n-propylamine | 0.95 | U | 0.76 | 0.95 |
| N-Nitrosodimethylamine | 0.95 | U | 0.30 | 0.95 |
| N-Nitrosodiphenylamine | 0.95 | U | 0.30 | 0.95 |
| Naphthalene | 0.19 | U | 0.095 | 0.19 |
| Nitrobenzene | 0.95 | U | 0.038 | 0.95 |
| Pentachlorophenol | 4.8 | U | 2.3 | 4.8 |
| Phenanthrene | 0.19 | U | 0.095 | 0.19 |
| Phenol | 0.95 | U | 0.57 | 0.95 |
| Pyrene | 0.19 | U | 0.095 | 0.19 |
| 2,2'-oxybis[1-chloropropane] | 0.95 | U | 0.38 | 0.95 |
| 2,6-Dinitrotoluene | 4.8 | U | 0.76 | 4.8 |
| 4-Nitrophenol | 4.8 | U | 2.3 | 4.8 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| Terphenyl-d14 (Surr) | 63 | | 24 - 110 |
| Phenol-d5 (Surr) | 75 | | 21 - 110 |
| Nitrobenzene-d5 (Surr) | 68 | | 21 - 110 |
| 2-Fluorophenol (Surr) | 77 | | 10 - 110 |
| 2-Fluorobiphenyl (Surr) | 68 | | 20 - 110 |
| 2,4,6-Tribromophenol (Surr) | 78 | | 21 - 110 |

Client: Tetra Tech, Inc

Job Number: 240-14408-1

**Client Sample ID:** **MT-MW12S-082112**

Lab Sample ID: 240-14408-4
Client Matrix: Water

Date Sampled: 08/21/2012 1505
Date Received: 08/22/2012 0805

**8270D Semivolatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8270D | Analysis Batch: | 240-56877 | Instrument ID: | A4HP9 |
| Prep Method: | 3520C | Prep Batch: | 240-55629 | Lab File ID: | 20906026.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1050 mL |
| Analysis Date: | 09/06/2012 1931 | | | Final Weight/Volume: | 2 mL |
| Prep Date: | 08/24/2012 1111 | | | Injection Volume: | 1 uL |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| 1,1'-Biphenyl | 0.95 | U | 0.76 | 0.95 |
| 1,4-Dioxane | 0.95 | U | 0.47 | 0.95 |
| 2,4,6-Trichlorophenol | 4.8 | U | 0.76 | 4.8 |
| 2,4,5-Trichlorophenol | 4.8 | U | 0.29 | 4.8 |
| 2,4-Dichlorophenol | 1.9 | U | 0.76 | 1.9 |
| 2,4-Dimethylphenol | 1.9 | U | 0.76 | 1.9 |
| 2,4-Dinitrophenol | 4.8 | U | 2.3 | 4.8 |
| 2,4-Dinitrotoluene | 4.8 | U | 0.26 | 4.8 |
| 2-Chloronaphthalene | 0.95 | U | 0.095 | 0.95 |
| 2-Chlorophenol | 0.95 | U | 0.28 | 0.95 |
| 2-Methylnaphthalene | 0.19 | U | 0.095 | 0.19 |
| 2-Methylphenol | 0.95 | U | 0.76 | 0.95 |
| 2-Nitroaniline | 1.9 | U | 0.76 | 1.9 |
| 2-Nitrophenol | 1.9 | U | 0.27 | 1.9 |
| 3 & 4 Methylphenol | 1.9 | U | 0.71 | 1.9 |
| 3,3'-Dichlorobenzidine | 4.8 | U | 0.35 | 4.8 |
| 3-Nitroaniline | 1.9 | U | 0.27 | 1.9 |
| 4,6-Dinitro-2-methylphenol | 4.8 | U | 2.3 | 4.8 |
| 4-Bromophenyl phenyl ether | 1.9 | U | 0.76 | 1.9 |
| 4-Chloro-3-methylphenol | 1.9 | U | 0.76 | 1.9 |
| 4-Chloroaniline | 1.9 | U | 0.76 | 1.9 |
| 4-Chlorophenyl phenyl ether | 1.9 | U | 0.29 | 1.9 |
| 4-Nitroaniline | 1.9 | U | 0.76 | 1.9 |
| Acenaphthene | 0.19 | U | 0.095 | 0.19 |
| Acenaphthylene | 0.19 | U | 0.095 | 0.19 |
| Acetophenone | 0.95 | U | 0.32 | 0.95 |
| Anthracene | 0.19 | U | 0.095 | 0.19 |
| Atrazine | 0.95 | U | 0.32 | 0.95 |
| Benzaldehyde | 0.95 | U * | 0.37 | 0.95 |
| Benzo[a]anthracene | 0.19 | U | 0.095 | 0.19 |
| Benzo[a]pyrene | 0.19 | U | 0.095 | 0.19 |
| Benzo[b]fluoranthene | 0.19 | U | 0.095 | 0.19 |
| Benzo[g,h,i]perylene | 0.19 | U | 0.095 | 0.19 |
| Benzo[k]fluoranthene | 0.19 | U | 0.095 | 0.19 |
| Bis(2-chloroethoxy)methane | 0.95 | U | 0.30 | 0.95 |
| Bis(2-chloroethyl)ether | 0.95 | U | 0.095 | 0.95 |
| Bis(2-ethylhexyl) phthalate | 1.1 | J | 0.76 | 1.9 |
| Butyl benzyl phthalate | 0.95 | U | 0.76 | 0.95 |
| Caprolactam | 4.8 | U | 0.76 | 4.8 |
| Carbazole | 0.95 | U | 0.27 | 0.95 |
| Chrysene | 0.19 | U | 0.095 | 0.19 |
| Di-n-butyl phthalate | 0.95 | U | 0.64 | 0.95 |
| Di-n-octyl phthalate | 0.95 | U | 0.76 | 0.95 |
| Dibenzo(a,h)anthracene | 0.19 | U | 0.095 | 0.19 |
| Dibenzofuran | 0.95 | U | 0.095 | 0.95 |
| Diethyl phthalate | 0.95 | U | 0.57 | 0.95 |

Client: Tetra Tech, Inc

Job Number: 240-14408-1

**Client Sample ID:** **MT-MW12S-082112**

Lab Sample ID: 240-14408-4
Client Matrix: Water

Date Sampled: 08/21/2012 1505
Date Received: 08/22/2012 0805

**8270D Semivolatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8270D | Analysis Batch: | 240-56877 | Instrument ID: | A4HP9 |
| Prep Method: | 3520C | Prep Batch: | 240-55629 | Lab File ID: | 20906026.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1050 mL |
| Analysis Date: | 09/06/2012 1931 | | | Final Weight/Volume: | 2 mL |
| Prep Date: | 08/24/2012 1111 | | | Injection Volume: | 1 uL |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Dimethyl phthalate | 0.95 | U | 0.28 | 0.95 |
| Fluoranthene | 0.19 | U | 0.095 | 0.19 |
| Fluorene | 0.19 | U | 0.095 | 0.19 |
| Hexachlorobenzene | 0.19 | U | 0.095 | 0.19 |
| Hexachlorobutadiene | 0.95 | U | 0.26 | 0.95 |
| Hexachlorocyclopentadiene | 9.5 | U | 0.76 | 9.5 |
| Hexachloroethane | 0.95 | U | 0.76 | 0.95 |
| Indeno[1,2,3-cd]pyrene | 0.19 | U | 0.095 | 0.19 |
| Isophorone | 0.95 | U | 0.26 | 0.95 |
| N-Nitrosodi-n-propylamine | 0.95 | U | 0.76 | 0.95 |
| N-Nitrosodimethylamine | 0.95 | U | 0.30 | 0.95 |
| N-Nitrosodiphenylamine | 0.95 | U | 0.30 | 0.95 |
| Naphthalene | 0.19 | U | 0.095 | 0.19 |
| Nitrobenzene | 0.95 | U | 0.038 | 0.95 |
| Pentachlorophenol | 4.8 | U | 2.3 | 4.8 |
| Phenanthrene | 0.19 | U | 0.095 | 0.19 |
| Phenol | 0.95 | U | 0.57 | 0.95 |
| Pyrene | 0.19 | U | 0.095 | 0.19 |
| 2,2'-oxybis[1-chloropropane] | 0.95 | U | 0.38 | 0.95 |
| 2,6-Dinitrotoluene | 4.8 | U | 0.76 | 4.8 |
| 4-Nitrophenol | 4.8 | U | 2.3 | 4.8 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| Terphenyl-d14 (Surr) | 72 | | 24 - 110 |
| Phenol-d5 (Surr) | 54 | | 21 - 110 |
| Nitrobenzene-d5 (Surr) | 50 | | 21 - 110 |
| 2-Fluorophenol (Surr) | 55 | | 10 - 110 |
| 2-Fluorobiphenyl (Surr) | 54 | | 20 - 110 |
| 2,4,6-Tribromophenol (Surr) | 70 | | 21 - 110 |

Client: Tetra Tech, Inc

Job Number: 240-14408-1

**Client Sample ID:** **MT-MW09S-082112**

Lab Sample ID: 240-14408-2
Client Matrix: Water

Date Sampled: 08/21/2012 1330
Date Received: 08/22/2012 0805

**8015C Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8015C | Analysis Batch: | 240-55708 | Instrument ID: | YPID |
| Prep Method: | 5030B | | N/A | Initial Weight/Volume: | 5 mL |
| Dilution: | 1.0 | | | Final Weight/Volume: | 5 mL |
| Analysis Date: | 08/26/2012 2114 | | | Injection Volume: | |
| Prep Date: | 08/26/2012 2114 | | | Result Type: | PRIMARY |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C6-C10) | 56 | J B | 25 | 100 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| Trifluorotoluene (Surr) | 91 | | 10 - 150 |

Client: Tetra Tech, Inc

Job Number: 240-14408-1

**Client Sample ID:** **MT-MW11S-082112**

Lab Sample ID: 240-14408-3
Client Matrix: Water

Date Sampled: 08/21/2012 1105
Date Received: 08/22/2012 0805

**8015C Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8015C | Analysis Batch: | 240-55708 | Instrument ID: | YPID |
| Prep Method: | 5030B | | N/A | Initial Weight/Volume: | 5 mL |
| Dilution: | 1.0 | | | Final Weight/Volume: | 5 mL |
| Analysis Date: | 08/26/2012 2153 | | | Injection Volume: | |
| Prep Date: | 08/26/2012 2153 | | | Result Type: | PRIMARY |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C6-C10) | 61 | J B | 25 | 100 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| Trifluorotoluene (Surr) | 92 | | 10 - 150 |

Client: Tetra Tech, Inc

Job Number: 240-14408-1

**Client Sample ID:** **MT-MW12S-082112**

Lab Sample ID: 240-14408-4
Client Matrix: Water

Date Sampled: 08/21/2012 1505
Date Received: 08/22/2012 0805

**8015C Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8015C | Analysis Batch: | 240-55708 | Instrument ID: | YPID |
| Prep Method: | 5030B | | N/A | Initial Weight/Volume: | 5 mL |
| Dilution: | 1.0 | | | Final Weight/Volume: | 5 mL |
| Analysis Date: | 08/26/2012 2234 | | | Injection Volume: | |
| Prep Date: | 08/26/2012 2234 | | | Result Type: | PRIMARY |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C6-C10) | 64 | J B | 25 | 100 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| Trifluorotoluene (Surr) | 92 | | 10 - 150 |

Client: Tetra Tech, Inc

Job Number: 240-14408-1

**Client Sample ID:** **MT-MW09S-082112**

Lab Sample ID: 240-14408-2
Client Matrix: Water

Date Sampled: 08/21/2012 1330
Date Received: 08/22/2012 0805

**8015C Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8015C | Analysis Batch: | 240-55969 | Instrument ID: | A2HP6F |
| Prep Method: | 3520C | Prep Batch: | 240-55631 | Initial Weight/Volume: | 1020 mL |
| Dilution: | 1.0 | | | Final Weight/Volume: | 5 mL |
| Analysis Date: | 08/28/2012 1433 | | | Injection Volume: | 1 uL |
| Prep Date: | 08/24/2012 1118 | | | Result Type: | PRIMARY |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C10-C32) | 470 | J B | 230 | 490 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| n-Nonane | 53 | | 10 - 110 |

Client: Tetra Tech, Inc

Job Number: 240-14408-1

**Client Sample ID:** **MT-MW11S-082112**

Lab Sample ID: 240-14408-3
Client Matrix: Water

Date Sampled: 08/21/2012 1105
Date Received: 08/22/2012 0805

**8015C Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8015C | Analysis Batch: | 240-55969 | Instrument ID: | A2HP6F |
| Prep Method: | 3520C | Prep Batch: | 240-55631 | Initial Weight/Volume: | 1050 mL |
| Dilution: | 1.0 | | | Final Weight/Volume: | 5 mL |
| Analysis Date: | 08/28/2012 1504 | | | Injection Volume: | 1 uL |
| Prep Date: | 08/24/2012 1118 | | | Result Type: | PRIMARY |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C10-C32) | 410 | J B | 230 | 480 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| n-Nonane | 59 | | 10 - 110 |

Client: Tetra Tech, Inc

Job Number: 240-14408-1

**Client Sample ID:** **MT-MW12S-082112**

Lab Sample ID: 240-14408-4
Client Matrix: Water

Date Sampled: 08/21/2012 1505
Date Received: 08/22/2012 0805

**8015C Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8015C | Analysis Batch: | 240-55969 | Instrument ID: | A2HP6F |
| Prep Method: | 3520C | Prep Batch: | 240-55631 | Initial Weight/Volume: | 1050 mL |
| Dilution: | 1.0 | | | Final Weight/Volume: | 5 mL |
| Analysis Date: | 08/28/2012 1535 | | | Injection Volume: | 1 uL |
| Prep Date: | 08/24/2012 1118 | | | Result Type: | PRIMARY |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C10-C32) | 240 | J B | 230 | 480 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| n-Nonane | 59 | | 10 - 110 |

Client: Tetra Tech, Inc

Job Number: 240-14408-1

**Client Sample ID:** **MT-MW09S-082112**

Lab Sample ID: 240-14408-2
Client Matrix: Water

Date Sampled: 08/21/2012 1330
Date Received: 08/22/2012 0805

**6020A Metals (ICP/MS)-Total Recoverable**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6020A | Analysis Batch: | 240-57039 | Instrument ID: | I8 |
| Prep Method: | 3005A | Prep Batch: | 240-56218 | Lab File ID: | I8090612A.csv |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 50 mL |
| Analysis Date: | 09/06/2012 1116 | | | Final Weight/Volume: | 50 mL |
| Prep Date: | 08/30/2012 0745 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Antimony | 1.9 | J | 0.13 | 2.0 |
| Arsenic | 0.60 | J | 0.40 | 5.0 |
| Barium | 59 | B | 0.19 | 5.0 |
| Beryllium | 1.8 | | 0.20 | 1.0 |
| Cadmium | 1.0 | U | 0.13 | 1.0 |
| Chromium | 1.8 | J | 0.71 | 2.0 |
| Cobalt | 7.6 | | 0.058 | 1.0 |
| Copper | 2.2 | B | 0.29 | 2.0 |
| Lead | 0.79 | J | 0.18 | 1.0 |
| Molybdenum | 1.9 | J B | 0.093 | 10 |
| Nickel | 12 | | 0.20 | 2.0 |
| Selenium | 0.62 | J | 0.57 | 5.0 |
| Silver | 1.0 | U | 0.080 | 1.0 |
| Thallium | 0.57 | J B | 0.14 | 2.0 |
| Vanadium | 0.84 | J | 0.44 | 20 |
| Zinc | 43 | B | 2.3 | 20 |

**6020A Metals (ICP/MS)-Dissolved**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6020A | Analysis Batch: | 240-57039 | Instrument ID: | I8 |
| Prep Method: | 3005A | Prep Batch: | 240-56218 | Lab File ID: | I8090612A.csv |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 50 mL |
| Analysis Date: | 09/06/2012 1145 | | | Final Weight/Volume: | 50 mL |
| Prep Date: | 08/30/2012 0745 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Antimony | 3.0 | | 0.13 | 2.0 |
| Arsenic | 0.52 | J | 0.40 | 5.0 |
| Barium | 47 | B | 0.19 | 5.0 |
| Beryllium | 1.7 | | 0.20 | 1.0 |
| Cadmium | 1.0 | U | 0.13 | 1.0 |
| Chromium | 2.0 | U | 0.71 | 2.0 |
| Cobalt | 7.5 | | 0.058 | 1.0 |
| Copper | 0.41 | J B | 0.29 | 2.0 |
| Lead | 1.0 | U | 0.18 | 1.0 |
| Molybdenum | 2.5 | J B | 0.093 | 10 |
| Nickel | 12 | | 0.20 | 2.0 |
| Selenium | 5.0 | U | 0.57 | 5.0 |
| Silver | 1.0 | U | 0.080 | 1.0 |
| Thallium | 0.44 | J B | 0.14 | 2.0 |
| Vanadium | 20 | U | 0.44 | 20 |
| Zinc | 43 | B | 2.3 | 20 |

**7470A Mercury (CVAA)**

Client: Tetra Tech, Inc

Job Number: 240-14408-1

**Client Sample ID:** **MT-MW09S-082112**

Lab Sample ID: 240-14408-2
Client Matrix: Water

Date Sampled: 08/21/2012 1330
Date Received: 08/22/2012 0805

**7470A Mercury (CVAA)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 7470A | Analysis Batch: | 240-56469 | Instrument ID: | H1 |
| Prep Method: | 7470A | Prep Batch: | 240-56220 | Lab File ID: | 083112A-HG1.PRN |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 100 mL |
| Analysis Date: | 08/31/2012 0939 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/30/2012 1400 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Mercury | 0.20 | U | 0.12 | 0.20 |

**7470A Mercury (CVAA)-Dissolved**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 7470A | Analysis Batch: | 240-56469 | Instrument ID: | H1 |
| Prep Method: | 7470A | Prep Batch: | 240-56220 | Lab File ID: | 083112A-HG1.PRN |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 100 mL |
| Analysis Date: | 08/31/2012 0940 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/30/2012 1400 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Mercury | 0.20 | U | 0.12 | 0.20 |

Client: Tetra Tech, Inc

Job Number: 240-14408-1

**Client Sample ID:** **MT-MW11S-082112**

Lab Sample ID: 240-14408-3
Client Matrix: Water

Date Sampled: 08/21/2012 1105
Date Received: 08/22/2012 0805

**6020A Metals (ICP/MS)-Total Recoverable**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6020A | Analysis Batch: | 240-57039 | Instrument ID: | I8 |
| Prep Method: | 3005A | Prep Batch: | 240-56218 | Lab File ID: | I8090612A.csv |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 50 mL |
| Analysis Date: | 09/06/2012 1151 | | | Final Weight/Volume: | 50 mL |
| Prep Date: | 08/30/2012 0745 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Antimony | 1.3 | J | 0.13 | 2.0 |
| Arsenic | 1.2 | J | 0.40 | 5.0 |
| Barium | 120 | B | 0.19 | 5.0 |
| Beryllium | 0.44 | J | 0.20 | 1.0 |
| Cadmium | 1.0 | U | 0.13 | 1.0 |
| Chromium | 21 | | 0.71 | 2.0 |
| Cobalt | 86 | | 0.058 | 1.0 |
| Copper | 2.8 | B | 0.29 | 2.0 |
| Lead | 0.76 | J | 0.18 | 1.0 |
| Molybdenum | 3.9 | J B | 0.093 | 10 |
| Nickel | 140 | | 0.20 | 2.0 |
| Selenium | 5.0 | U | 0.57 | 5.0 |
| Silver | 1.0 | U | 0.080 | 1.0 |
| Thallium | 0.37 | J B | 0.14 | 2.0 |
| Vanadium | 2.6 | J | 0.44 | 20 |
| Zinc | 160 | B | 2.3 | 20 |

**6020A Metals (ICP/MS)-Dissolved**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6020A | Analysis Batch: | 240-57039 | Instrument ID: | I8 |
| Prep Method: | 3005A | Prep Batch: | 240-56218 | Lab File ID: | I8090612A.csv |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 50 mL |
| Analysis Date: | 09/06/2012 1157 | | | Final Weight/Volume: | 50 mL |
| Prep Date: | 08/30/2012 0745 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Antimony | 1.1 | J | 0.13 | 2.0 |
| Arsenic | 0.74 | J | 0.40 | 5.0 |
| Barium | 110 | B | 0.19 | 5.0 |
| Beryllium | 1.0 | U | 0.20 | 1.0 |
| Cadmium | 1.0 | U | 0.13 | 1.0 |
| Chromium | 2.0 | U | 0.71 | 2.0 |
| Cobalt | 54 | | 0.058 | 1.0 |
| Copper | 0.39 | J B | 0.29 | 2.0 |
| Lead | 1.0 | U | 0.18 | 1.0 |
| Molybdenum | 4.2 | J B | 0.093 | 10 |
| Nickel | 83 | | 0.20 | 2.0 |
| Selenium | 5.0 | U | 0.57 | 5.0 |
| Silver | 1.0 | U | 0.080 | 1.0 |
| Thallium | 0.30 | J B | 0.14 | 2.0 |
| Vanadium | 0.89 | J | 0.44 | 20 |
| Zinc | 11 | J B | 2.3 | 20 |

**7470A Mercury (CVAA)**

Client: Tetra Tech, Inc

Job Number: 240-14408-1

**Client Sample ID:** **MT-MW11S-082112**

Lab Sample ID: 240-14408-3
Client Matrix: Water

Date Sampled: 08/21/2012 1105
Date Received: 08/22/2012 0805

**7470A Mercury (CVAA)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 7470A | Analysis Batch: | 240-56469 | Instrument ID: | H1 |
| Prep Method: | 7470A | Prep Batch: | 240-56220 | Lab File ID: | 083112A-HG1.PRN |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 100 mL |
| Analysis Date: | 08/31/2012 0942 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/30/2012 1400 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Mercury | 0.20 | U | 0.12 | 0.20 |

**7470A Mercury (CVAA)-Dissolved**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 7470A | Analysis Batch: | 240-56469 | Instrument ID: | H1 |
| Prep Method: | 7470A | Prep Batch: | 240-56220 | Lab File ID: | 083112A-HG1.PRN |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 100 mL |
| Analysis Date: | 08/31/2012 0944 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/30/2012 1400 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Mercury | 0.20 | U | 0.12 | 0.20 |

Client: Tetra Tech, Inc

Job Number: 240-14408-1

**Client Sample ID:** **MT-MW12S-082112**

Lab Sample ID: 240-14408-4
Client Matrix: Water

Date Sampled: 08/21/2012 1505
Date Received: 08/22/2012 0805

**6020A Metals (ICP/MS)-Total Recoverable**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6020A | Analysis Batch: | 240-57039 | Instrument ID: | I8 |
| Prep Method: | 3005A | Prep Batch: | 240-56218 | Lab File ID: | I8090612A.csv |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 50 mL |
| Analysis Date: | 09/06/2012 1215 | | | Final Weight/Volume: | 50 mL |
| Prep Date: | 08/30/2012 0745 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Antimony | 0.49 | J | 0.13 | 2.0 |
| Arsenic | 0.75 | J | 0.40 | 5.0 |
| Barium | 100 | B | 0.19 | 5.0 |
| Beryllium | 4.9 | | 0.20 | 1.0 |
| Cadmium | 0.75 | J | 0.13 | 1.0 |
| Chromium | 1.2 | J | 0.71 | 2.0 |
| Cobalt | 390 | | 0.058 | 1.0 |
| Copper | 12 | B | 0.29 | 2.0 |
| Lead | 0.54 | J | 0.18 | 1.0 |
| Molybdenum | 1.2 | J B | 0.093 | 10 |
| Nickel | 690 | | 0.20 | 2.0 |
| Selenium | 0.79 | J | 0.57 | 5.0 |
| Silver | 1.0 | U | 0.080 | 1.0 |
| Thallium | 0.38 | J B | 0.14 | 2.0 |
| Vanadium | 0.87 | J | 0.44 | 20 |
| Zinc | 670 | B | 2.3 | 20 |

**6020A Metals (ICP/MS)-Dissolved**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6020A | Analysis Batch: | 240-57039 | Instrument ID: | I8 |
| Prep Method: | 3005A | Prep Batch: | 240-56218 | Lab File ID: | I8090612A.csv |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 50 mL |
| Analysis Date: | 09/06/2012 1220 | | | Final Weight/Volume: | 50 mL |
| Prep Date: | 08/30/2012 0745 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Antimony | 0.28 | J | 0.13 | 2.0 |
| Arsenic | 5.0 | U | 0.40 | 5.0 |
| Barium | 110 | B | 0.19 | 5.0 |
| Beryllium | 1.9 | | 0.20 | 1.0 |
| Cadmium | 0.42 | J | 0.13 | 1.0 |
| Chromium | 2.0 | U | 0.71 | 2.0 |
| Cobalt | 400 | | 0.058 | 1.0 |
| Copper | 0.31 | J B | 0.29 | 2.0 |
| Lead | 1.0 | U | 0.18 | 1.0 |
| Molybdenum | 0.97 | J B | 0.093 | 10 |
| Nickel | 680 | | 0.20 | 2.0 |
| Selenium | 5.0 | U | 0.57 | 5.0 |
| Silver | 1.0 | U | 0.080 | 1.0 |
| Thallium | 0.33 | J B | 0.14 | 2.0 |
| Vanadium | 20 | U | 0.44 | 20 |
| Zinc | 580 | B | 2.3 | 20 |

**7470A Mercury (CVAA)**

Client: Tetra Tech, Inc

Job Number: 240-14408-1

**Client Sample ID:** **MT-MW12S-082112**

Lab Sample ID: 240-14408-4
Client Matrix: Water

Date Sampled: 08/21/2012 1505
Date Received: 08/22/2012 0805

**7470A Mercury (CVAA)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 7470A | Analysis Batch: | 240-56469 | Instrument ID: | H1 |
| Prep Method: | 7470A | Prep Batch: | 240-56220 | Lab File ID: | 083112A-HG1.PRN |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 100 mL |
| Analysis Date: | 08/31/2012 0945 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/30/2012 1400 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Mercury | 0.12 | J | 0.12 | 0.20 |

**7470A Mercury (CVAA)-Dissolved**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 7470A | Analysis Batch: | 240-56469 | Instrument ID: | H1 |
| Prep Method: | 7470A | Prep Batch: | 240-56220 | Lab File ID: | 083112A-HG1.PRN |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 100 mL |
| Analysis Date: | 08/31/2012 0947 | | | Final Weight/Volume: | 100 mL |
| Prep Date: | 08/30/2012 1400 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Mercury | 0.20 | U | 0.12 | 0.20 |

**Appendix C**

Support Documentation

# HOLDTIME

**SDG** 240-14408-1

| SORT | UNITS | NSAMPLE | LAB_ID | QC_TYPE | SAMP_DATE | EXTR_DATE | ANAL_DATE | SMP_EXTR | EXTR_ANL | SMP_ANL |
|---|---|---|---|---|---|---|---|---|---|---|
| HG | UG/L | MT-MW07S-082212 | 240-14454-2 | NM | 8/22/2012 | 8/30/2012 | 8/31/2012 | 8 | 1 | 9 |
| HG | UG/L | MT-MW08S-082212 | 240-14454-3 | NM | 8/22/2012 | 8/30/2012 | 8/31/2012 | 8 | 1 | 9 |
| HG | UG/L | MT-MW09S-082112 | 240-14408-2 | NM | 8/21/2012 | 8/30/2012 | 8/31/2012 | 9 | 1 | 10 |
| HG | UG/L | MT-MW10S-082212 | 240-14454-4 | NM | 8/22/2012 | 8/30/2012 | 8/31/2012 | 8 | 1 | 9 |
| HG | UG/L | MT-MW11S-082112 | 240-14408-3 | NM | 8/21/2012 | 8/30/2012 | 8/31/2012 | 9 | 1 | 10 |
| HG | UG/L | MT-MW12S-082112 | 240-14408-4 | NM | 8/21/2012 | 8/30/2012 | 8/31/2012 | 9 | 1 | 10 |
| M | UG/L | MT-MW08S-082212 | 240-14454-3 | NM | 8/22/2012 | 8/30/2012 | 9/6/2012 | 8 | 7 | 15 |
| M | UG/L | MT-MW07S-082212 | 240-14454-2 | NM | 8/22/2012 | 8/30/2012 | 9/6/2012 | 8 | 7 | 15 |
| M | UG/L | MT-MW09S-082112 | 240-14408-2 | NM | 8/21/2012 | 8/30/2012 | 9/6/2012 | 9 | 7 | 16 |
| M | UG/L | MT-MW10S-082212 | 240-14454-4 | NM | 8/22/2012 | 8/30/2012 | 9/6/2012 | 8 | 7 | 15 |
| M | UG/L | MT-MW11S-082112 | 240-14408-3 | NM | 8/21/2012 | 8/30/2012 | 9/6/2012 | 9 | 7 | 16 |
| M | UG/L | MT-MW12S-082112 | 240-14408-4 | NM | 8/21/2012 | 8/30/2012 | 9/6/2012 | 9 | 7 | 16 |
| HGF | UG/L | MT-MW08S-082212 | 240-14454-3 | NM | 8/22/2012 | 8/30/2012 | 8/31/2012 | 8 | 1 | 9 |
| HGF | UG/L | MT-MW12S-082112 | 240-14408-4 | NM | 8/21/2012 | 8/30/2012 | 8/31/2012 | 9 | 1 | 10 |
| HGF | UG/L | MT-MW07S-082212 | 240-14454-2 | NM | 8/22/2012 | 8/30/2012 | 8/31/2012 | 8 | 1 | 9 |

| SORT | UNITS | NSAMPLE | LAB_ID | QC_TYPE | SAMP_DATE | EXTR_DATE | ANAL_DATE | SMP_EXTR | EXTR_ANL | SMP_ANL |
|---|---|---|---|---|---|---|---|---|---|---|
| HGF | UG/L | MT-MW09S-082112 | 240-14408-2 | NM | 8/21/2012 | 8/30/2012 | 8/31/2012 | 9 | 1 | 10 |
| HGF | UG/L | MT-MW10S-082212 | 240-14454-4 | NM | 8/22/2012 | 8/30/2012 | 8/31/2012 | 8 | 1 | 9 |
| HGF | UG/L | MT-MW11S-082112 | 240-14408-3 | NM | 8/21/2012 | 8/30/2012 | 8/31/2012 | 9 | 1 | 10 |
| MF | UG/L | MT-MW09S-082112 | 240-14408-2 | NM | 8/21/2012 | 8/30/2012 | 9/6/2012 | 9 | 7 | 16 |
| MF | UG/L | MT-MW07S-082212 | 240-14454-2 | NM | 8/22/2012 | 8/30/2012 | 9/6/2012 | 8 | 7 | 15 |
| MF | UG/L | MT-MW12S-082112 | 240-14408-4 | NM | 8/21/2012 | 8/30/2012 | 9/6/2012 | 9 | 7 | 16 |
| MF | UG/L | MT-MW08S-082212 | 240-14454-3 | NM | 8/22/2012 | 8/30/2012 | 9/6/2012 | 8 | 7 | 15 |
| MF | UG/L | MT-MW10S-082212 | 240-14454-4 | NM | 8/22/2012 | 8/30/2012 | 9/6/2012 | 8 | 7 | 15 |
| MF | UG/L | MT-MW11S-082112 | 240-14408-3 | NM | 8/21/2012 | 8/30/2012 | 9/6/2012 | 9 | 7 | 16 |
| OS | UG/L | MT-MW09S-082112 | 240-14408-2 | NM | 8/21/2012 | 8/24/2012 | 9/6/2012 | 3 | 13 | 16 |
| OS | UG/L | MT-MW10S-082212 | 240-14454-4 | NM | 8/22/2012 | 8/24/2012 | 9/6/2012 | 2 | 13 | 15 |
| OS | UG/L | MT-MW11S-082112 | 240-14408-3 | NM | 8/21/2012 | 8/24/2012 | 9/6/2012 | 3 | 13 | 16 |
| OS | UG/L | MT-MW12S-082112 | 240-14408-4 | NM | 8/21/2012 | 8/24/2012 | 9/6/2012 | 3 | 13 | 16 |
| OS | UG/L | MT-MW07S-082212 | 240-14454-2 | NM | 8/22/2012 | 8/24/2012 | 9/6/2012 | 2 | 13 | 15 |
| OS | UG/L | MT-MW08S-082212 | 240-14454-3 | NM | 8/22/2012 | 8/24/2012 | 9/6/2012 | 2 | 13 | 15 |
| OV | UG/L | MT-MW12S-082112 | 240-14408-4 | NM | 8/21/2012 | 9/1/2012 | 9/1/2012 | 11 | 0 | 11 |
| OV | UG/L | MT-MW09S-082112 | 240-14408-2 | NM | 8/21/2012 | 8/31/2012 | 8/31/2012 | 10 | 0 | 10 |
| OV | UG/L | TB-082112 | 240-14408-1 | NM | 8/21/2012 | 8/31/2012 | 8/31/2012 | 10 | 0 | 10 |

| SORT | UNITS | NSAMPLE | LAB_ID | QC_TYPE | SAMP_DATE | EXTR_DATE | ANAL_DATE | SMP_EXTR | EXTR_ANL | SMP_ANL |
|---|---|---|---|---|---|---|---|---|---|---|
| OV | UG/L | MT-MW08S-082212 | 240-14454-3 | NM | 8/22/2012 | 9/4/2012 | 9/4/2012 | 13 | 0 | 13 |
| OV | UG/L | MT-MW07S-082212 | 240-14454-2 | NM | 8/22/2012 | 9/4/2012 | 9/4/2012 | 13 | 0 | 13 |
| OV | UG/L | TB-082212 | 240-14454-1 | NM | 8/22/2012 | 9/4/2012 | 9/4/2012 | 13 | 0 | 13 |
| OV | UG/L | MT-MW10S-082212 | 240-14454-4 | NM | 8/22/2012 | 9/4/2012 | 9/4/2012 | 13 | 0 | 13 |
| OV | UG/L | MT-MW11S-082112 | 240-14408-3 | NM | 8/21/2012 | 8/31/2012 | 8/31/2012 | 10 | 0 | 10 |
| DRO | UG/L | MT-MW07S-082212 | 240-14454-2 | NM | 8/22/2012 | 8/24/2012 | 8/28/2012 | 2 | 4 | 6 |
| DRO | UG/L | MT-MW08S-082212 | 240-14454-3 | NM | 8/22/2012 | 8/24/2012 | 8/29/2012 | 2 | 5 | 7 |
| DRO | UG/L | MT-MW09S-082112 | 240-14408-2 | NM | 8/21/2012 | 8/24/2012 | 8/28/2012 | 3 | 4 | 7 |
| DRO | UG/L | MT-MW10S-082212 | 240-14454-4 | NM | 8/22/2012 | 8/24/2012 | 8/28/2012 | 2 | 4 | 6 |
| DRO | UG/L | MT-MW11S-082112 | 240-14408-3 | NM | 8/21/2012 | 8/24/2012 | 8/28/2012 | 3 | 4 | 7 |
| DRO | UG/L | MT-MW12S-082112 | 240-14408-4 | NM | 8/21/2012 | 8/24/2012 | 8/28/2012 | 3 | 4 | 7 |
| GRO | UG/L | MT-MW09S-082112 | 240-14408-2 | NM | 8/21/2012 | 8/26/2012 | 8/26/2012 | 5 | 0 | 5 |
| GRO | UG/L | MT-MW08S-082212 | 240-14454-3 | NM | 8/22/2012 | 8/28/2012 | 8/28/2012 | 6 | 0 | 6 |
| GRO | UG/L | MT-MW10S-082212 | 240-14454-4 | NM | 8/22/2012 | 8/28/2012 | 8/28/2012 | 6 | 0 | 6 |
| GRO | UG/L | MT-MW11S-082112 | 240-14408-3 | NM | 8/21/2012 | 8/26/2012 | 8/26/2012 | 5 | 0 | 5 |
| GRO | UG/L | MT-MW12S-082112 | 240-14408-4 | NM | 8/21/2012 | 8/26/2012 | 8/26/2012 | 5 | 0 | 5 |
| GRO | UG/L | MT-MW07S-082212 | 240-14454-2 | NM | 8/22/2012 | 8/28/2012 | 8/28/2012 | 6 | 0 | 6 |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

Job Number: 240-14408-1

Job Description: MSA Main Terminal Groundwater Sampling

For:
Tetra Tech, Inc
20251 Century Blvd
Suite 200
Germantown, MD 20874

Attention: Tony Apanavage

Patrick O'Meara

Approved for release
Patrick J O'Meara
Project Manager II
9/7/2012 7:44 PM

Patrick J O'Meara
Project Manager II
patrick.omeara@testamericainc.com
09/07/2012

cc: Samantha Brenner
Ms. Kelly Carper
Vanessa Good
Ms. Tobrena Sedlmyer

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of TestAmerica and its client. All questions regarding this report should be directed to the TestAmerica Project Manager who has signed this report.

# CASE NARRATIVE

## Client: Tetra Tech, Inc

## Project: MSA Main Terminal Groundwater Sampling

## Report Number: 240-14408-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client

**RECEIPT**

The samples were received on 08/22/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.8 and 3.6 C.

**VOLATILE ORGANIC COMPOUNDS (GC-MS)**

Samples TB-082112 (240-14408-1), MT-MW09S-082112 (240-14408-2), MT-MW11S-082112 (240-14408-3) and MT-MW12S-082112 (240-14408-4) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 08/31/2012 and 09/01/2012.

1,2,3-Trichlorobenzene was detected in method blank MB 240-56479/5 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

2-Chloroethyl vinyl ether and tert-Butyl alcohol failed the recovery criteria low for the MS/MSD of sample 240-14497-10 in batch 240-56479.

No other difficulties were encountered during the VOCs analyses. All other quality control parameters were within the acceptance limits.

**SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)**

Samples MT-MW09S-082112 (240-14408-2), MT-MW11S-082112 (240-14408-3) and MT-MW12S-082112 (240-14408-4) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 08/24/2012 and analyzed on 09/06/2012.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out and no corrective action is required.

The laboratory control sample (LCS) for batch 55629 exceeded control limits for benzaldehyde. This analytes recovery was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 55629.

No other difficulties were encountered during the SVOCs analyses. All other quality control parameters were within the acceptance limits.

**GASOLINE RANGE ORGANICS (GRO)**

Samples MT-MW09S-082112 (240-14408-2), MT-MW11S-082112 (240-14408-3) and MT-MW12S-082112 (240-14408-4) were analyzed

for gasoline range organics (GRO) in accordance with SW-846 Method 8015C. The samples were analyzed on 08/26/2012.

Total Petroleum Hydrocarbons (C6-C10) was detected in method blank MB 240-55708/6 at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

No other difficulties were encountered during the GRO analyses. All other quality control parameters were within the acceptance limits.

**DIESEL RANGE ORGANICS (DRO)**

Samples MT-MW09S-082112 (240-14408-2), MT-MW11S-082112 (240-14408-3) and MT-MW12S-082112 (240-14408-4) were analyzed for diesel range organics (DRO) in accordance with EPA-SW-846 Method 8015C - DRO. The samples were prepared on 08/24/2012 and analyzed on 08/28/2012.

Total Petroleum Hydrocarbons (C10-C32) was detected in method blank MB 240-55631/7-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 55631. 3520C 8015C_DRO

No other difficulties were encountered during the DRO analyses. All other quality control parameters were within the acceptance limits.

**DISSOLVED METALS (ICPMS)**

Samples MT-MW09S-082112 (240-14408-2), MT-MW11S-082112 (240-14408-3) and MT-MW12S-082112 (240-14408-4) were analyzed for dissolved metals (ICPMS) in accordance with EPA SW-846 Methods 6020A. The samples were prepared on 08/30/2012 and analyzed on 09/06/2012.

No difficulties were encountered during the metals analyses. All quality control parameters were within the acceptance limits.

**METALS (ICPMS)**

Samples MT-MW09S-082112 (240-14408-2), MT-MW11S-082112 (240-14408-3) and MT-MW12S-082112 (240-14408-4) were analyzed for metals (ICPMS) in accordance with EPA SW-846 Method 6020A. The samples were prepared on 08/30/2012 and analyzed on 09/06/2012.

Several analytes were detected in method blank MB 240-56218/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

No other difficulties were encountered during the metals analyses. All other quality control parameters were within the acceptance limits.

**DISSOLVED MERCURY**

Samples MT-MW09S-082112 (240-14408-2), MT-MW11S-082112 (240-14408-3) and MT-MW12S-082112 (240-14408-4) were analyzed for dissolved mercury (CVAA) in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 08/30/2012 and analyzed on 08/31/2012.

No difficulties were encountered during the mercury analyses. All quality control parameters were within the acceptance limits.

**TOTAL MERCURY**

Samples MT-MW09S-082112 (240-14408-2), MT-MW11S-082112 (240-14408-3) and MT-MW12S-082112 (240-14408-4) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 08/30/2012 and analyzed on 08/31/2012.

No difficulties were encountered during the mercury analyses. All quality control parameters were within the acceptance limits.

## SAMPLE SUMMARY

Client: Tetra Tech, Inc

Job Number: 240-14408-1

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|---|---|---|---|---|
| 240-14408-1TB | TB-082112 | Water | 08/21/2012 0000 | 08/22/2012 0805 |
| 240-14408-2 | MT-MW09S-082112 | Water | 08/21/2012 1330 | 08/22/2012 0805 |
| 240-14408-3 | MT-MW11S-082112 | Water | 08/21/2012 1105 | 08/22/2012 0805 |
| 240-14408-4 | MT-MW12S-082112 | Water | 08/21/2012 1505 | 08/22/2012 0805 |

# METHOD SUMMARY

Client: Tetra Tech, Inc

Job Number: 240-14408-1

| Description | Lab Location | Method | Preparation Method |
|---|---|---|---|
| **Matrix: Water** | | | |
| Volatile Organic Compounds (GC/MS) | TAL NC | SW846 8260B | |
| Purge and Trap | TAL NC | | SW846 5030B |
| Semivolatile Organic Compounds (GC/MS) | TAL NC | SW846 8270D | |
| Liquid-Liquid Extraction (Continuous) | TAL NC | | SW846 3520C |
| Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics) | TAL NC | SW846 8015C | |
| Purge and Trap | TAL NC | | SW846 5030B |
| Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics) | TAL NC | SW846 8015C | |
| Liquid-Liquid Extraction (Continuous) | TAL NC | | SW846 3520C |
| Metals (ICP/MS) | TAL NC | SW846 6020A | |
| Preparation, Total Recoverable or Dissolved Metals | TAL NC | | SW846 3005A |
| Metals (ICP/MS) | TAL NC | SW846 6020A | |
| Preparation, Total Recoverable or Dissolved Metals | TAL NC | | SW846 3005A |
| Sample Filtration, Field | | | FIELD_FLTRD |
| Mercury (CVAA) | TAL NC | SW846 7470A | |
| Preparation, Mercury | TAL NC | | SW846 7470A |
| Mercury (CVAA) | TAL NC | SW846 7470A | |
| Preparation, Mercury | TAL NC | | SW846 7470A |
| Sample Filtration, Field | | | FIELD_FLTRD |

**Lab References:**

TAL NC = TestAmerica Canton

**Method References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

## METHOD / ANALYST SUMMARY

Client: Tetra Tech, Inc

Job Number: 240-14408-1

| Method | Analyst | Analyst ID |
|---|---|---|
| SW846 8260B | Quayle, Rick | RQ |
| SW846 8270D | Ulman, Mark | MU |
| SW846 8015C | Bosworth, Heather M | HMB |
| SW846 8015C | Bolgrin, Deborah | DB |
| SW846 6020A | Davies, Brian | BD |
| SW846 7470A | Davies, Brian | BD |

## DATA REPORTING QUALIFIERS

Client: Tetra Tech, Inc

Job Number: 240-14408-1

| Lab Section | Qualifier | Description |
|---|---|---|
| GC/MS VOA | | |
| | J | Indicates an Estimated Value for TICs |
| | U | Indicates the analyte was analyzed for but not detected. |
| | F | MS or MSD exceeds the control limits |
| | T | Result is a tentatively identified compound (TIC) and an estimated value. |
| | J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| | N | This flag indicates the presumptive evidence of a compound. |
| GC/MS Semi VOA | | |
| | U | Indicates the analyte was analyzed for but not detected. |
| | * | LCS or LCSD exceeds the control limits |
| | J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| GC VOA | | |
| | B | Compound was found in the blank and sample. |
| | J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| GC Semi VOA | | |
| | B | Compound was found in the blank and sample. |
| | U | Indicates the analyte was analyzed for but not detected. |
| | J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| Metals | | |
| | B | Compound was found in the blank and sample. |
| | U | Indicates the analyte was analyzed for but not detected. |
| | J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

North Canton
4101 Shuffel Street, N. W.
North Canton, OH 44720
phone 330.497.9396 fax 330.497.0772

# Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

| Client Contact | Project Manager: Tony Apanavage | Site Contact: Stuart Cameron | Date: | COC No: |
|---|---|---|---|---|
| Tera Tech | Tel/Fax: 301-233-8230 (cell) | Lab Contact: Pat Omeara | Carrier: Fedex | 1 of 1 COCs |
| 20251 Century Blvd, Suite 200 | Analysis Turnaround Time | | | Job No. 112IC04054 - 05 |
| Germantown, MD 20874 | Calendar ( C ) or Work Days (W) | | | |
| Phone: (301) 528-3021 | TAT if different from Below 21 days | | | SDG No. |
| Fax: (301) 528-3000 | ☐ 2 weeks | | | |
| Project Name: Main Terminal Groundwater Sampling | ☐ 1 week | | | Sampler: S. Cameron |
| Site: Main Terminal, Martin State Airport | ☐ 2 days | | | |
| P O # | ☐ 1 day | | | |

| Sample Identification | Sample Date | Sample Time | Sample Type | Matrix | # of Cont. | Filtered Sample | VOCs | SVOCs / 1,4-Dioxane | TPH-GRO | TPH-DRO | Total Metals | Dissolved Metals | Sample Specific Notes: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TB-082112 | -- | -- | GW | Water | 2 | | X | | | | | | |
| MT-MW09S-082112 | 8-21-12 | 1330 | GW | Water | 12 | | X | X | X | X | X | X | |
| MT-MW11S-082112 | ↓ | 1105 | GW | Water | 12 | | X | X | X | X | X | X | |
| MT-MW12S-082112 | ↓ | 1505 | GW | Water | 12 | | X | X | X | X | X | X | |
| | | | GW | Water | | | | | | | | | |
| | | | GW | Water | | | | | | | | | |
| | | | GW | Water | | | | | | | | | |
| | | | GW | Water | | | | | | | | | |
| | | | GW | Water | | | | | | | | | |
| | | | GW | Water | | | | | | | | | |
| | | | GW | Water | | | | | | | | | |
| | | | GW | Water | | | | | | | | | |

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

*Possible Hazard Identification*
☒ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant.* *Poison B* ☐ *Unknown* ☐

*Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)*
☐ *Return To Client* ☒ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments: **DISSOLVED METALS FILTERED IN FIELD**

| Relinquished by: | Company: | Date/Time: | Received by: | Company: | Date/Time: |
|---|---|---|---|---|---|
| [signature] | Tera Tech | 8-21-12/1545 | [signature] | TKEANVA | 22 Aug 2012 0805 |
| Relinquished by: | Company: | Date/Time: | Received by: | Company: | Date/Time: |
| Relinquished by: | Company: | Date/Time: | Received by: | Company: | Date/Time: |

Form No. CA-C-WI-002, Rev. 2, dated 03/06/201



09/07/2012

**TestAmerica Canton Sample Receipt Form/Narrative** Login # : 14408

Client TETRA TECH Site Name MAIN TERMINAL By: Matthew Jemp

Cooler Received on 22 AUG 2012 Opened on 22 AUG 2012 (Signature)

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other

TestAmerica Cooler # (RAC) Foam Box Client Cooler Box Other

Packing material used: Bubble Wrap Foam Plastic Bag None Other

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

| | | | |
|---|---|---|---|
| IR GUN# 1 | (CF 0°C) | Observed Sample Temp. ____ °C | Corrected Sample Temp. ____ °C |
| IR GUN# 4G | (CF –1°C) | Observed Sample Temp. ____ °C | Corrected Sample Temp. ____ °C |
| IR GUN# 5G | (CF –1°C) | Observed Sample Temp. ____ °C | Corrected Sample Temp. ____ °C |
| IR GUN# 8 | (CF 0°C) | Observed Sample Temp. ____ °C | Corrected Sample Temp. ____ °C |

X Multiple on Back

| | |
|---|---|
| 2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 2 | Yes No |
| -Were custody seals on the outside of the cooler(s) signed & dated? | Yes No NA |
| -Were custody seals on the bottle(s)? | Yes No |
| 3. Shippers' packing slip attached to the cooler(s)? | Yes No |
| 4. Did custody papers accompany the sample(s)? | Yes No |
| 5. Were the custody papers relinquished & signed in the appropriate place? | Yes No |
| 6. Did all bottles arrive in good condition (Unbroken)? | Yes No |
| 7. Could all bottle labels be reconciled with the COC? | Yes No |
| 8. Were correct bottle(s) used for the test(s) indicated? | Yes No |
| 9. Sufficient quantity received to perform indicated analyses? | Yes No |
| 10. Were sample(s) at the correct pH upon receipt? | Yes No NA |
| 11. Were VOAs on the COC? | Yes No |
| 12. Were air bubbles >6 mm in any VOA vials? | Yes No NA |
| 13. Was a trip blank present in the cooler(s)? | Yes No |

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

**14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES**

**15. SAMPLE CONDITION**

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

## 16. SAMPLE PRESERVATION

Sample(s) were further preserved in Sample Receiving to meet recommended pH level(s). Nitric Acid Lot# 031512-HNO3; Sulfuric Acid Lot# 041911-H2SO4; Sodium Hydroxide Lot# 121809 - NaOH; Hydrochloric Acid Lot# 041911-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-(CH3COO)2ZN/NaOH. What time was preservative added to sample(s)?

| Client ID | pH | Date | Initials |
|---|---|---|---|
| 9S | <2 | 7/24/12 | MAF |
| 11S | <2 | | |
| 12S | <2 | | |

| Cooler # | Observed Sample Temp. °C | Corrected Sample Temp. °C | IR # | Coolant |
|---|---|---|---|---|
| CLIENT | 2.8 | 2.8 | 1 | WET ICE |
| 1 | 3.6 | 3.6 | 1 | 1 |

Client: Tetra Tech, Inc

Job Number: 240-14408-1

## Surrogate Recovery Report

**8260B Volatile Organic Compounds (GC/MS)**

**Client Matrix: Water**

| Lab Sample ID | Client Sample ID | DBFM %Rec | DCA %Rec | TOL %Rec | BFB %Rec |
|---|---|---|---|---|---|
| 240-14408-1 | TB-082112 | 102 | 88 | 84 | 82 |
| 240-14408-2 | MT-MW09S-082112 | 103 | 89 | 84 | 82 |
| 240-14408-3 | MT-MW11S-082112 | 112 | 97 | 91 | 90 |
| 240-14408-4 | MT-MW12S-082112 | 107 | 92 | 84 | 83 |
| MB 240-56479/5 | | 101 | 88 | 85 | 84 |
| LCS 240-56479/4 | | 106 | 89 | 88 | 90 |
| 240-14497-E-10 MS | | 103 | 86 | 86 | 89 |
| 240-14497-F-10 MSD | | 105 | 88 | 88 | 90 |

| Surrogate | Acceptance Limits |
|---|---|
| DBFM = Dibromofluoromethane (Surr) | 75-121 |
| DCA = 1,2-Dichloroethane-d4 (Surr) | 63-129 |
| TOL = Toluene-d8 (Surr) | 74-115 |
| BFB = 4-Bromofluorobenzene (Surr) | 66-117 |

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-14408-1

SDG No.:

Lab File ID: UXR943.D Lab Sample ID: MB 240-56479/5

Matrix: Water Heated Purge: (Y/N) N

Instrument ID: A3UX17 Date Analyzed: 08/31/2012 22:40

GC Column: DB-624 ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| | LCS 240-56479/4 | UXR942.D | 08/31/2012 22:18 |
| TB-082112 | 240-14408-1 | UXR944.D | 08/31/2012 23:02 |
| MT-MW09S-082112 | 240-14408-2 | UXR945.D | 08/31/2012 23:25 |
| MT-MW11S-082112 | 240-14408-3 | UXR946.D | 08/31/2012 23:47 |
| MT-MW12S-082112 | 240-14408-4 | UXR947.D | 09/01/2012 00:09 |
| | 240-14497-E-10 MS | UXR964.D | 09/01/2012 06:29 |
| | 240-14497-F-10 MSD | UXR965.D | 09/01/2012 06:51 |

Client: Tetra Tech, Inc

Job Number: 240-14408-1

**Method Blank - Batch: 240-56479**

**Method: 8260B**
**Preparation: 5030B**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | MB 240-56479/5 | Analysis Batch: | 240-56479 | Instrument ID: | A3UX17 |
| Client Matrix: | Water | Prep Batch: | N/A | Lab File ID: | UXR943.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 08/31/2012 2240 | Units: | ug/L | Final Weight/Volume: | 5 mL |
| Prep Date: | 08/31/2012 2240 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 1.0 | U | 0.23 | 1.0 |
| 1,1,1-Trichloroethane | 1.0 | U | 0.22 | 1.0 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.18 | 1.0 |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0 | U | 0.28 | 1.0 |
| 1,1-Dichloroethane | 1.0 | U | 0.15 | 1.0 |
| 1,1-Dichloroethene | 1.0 | U | 0.19 | 1.0 |
| 1,1-Dichloropropene | 1.0 | U | 0.13 | 1.0 |
| 1,2,3-Trichlorobenzene | 0.177 | J | 0.17 | 1.0 |
| 1,2,3-Trichloropropane | 1.0 | U | 0.43 | 1.0 |
| 1,2,3-Trimethylbenzene | 5.0 | U | 0.0059 | 5.0 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 0.15 | 1.0 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 0.12 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | 2.0 | U | 0.67 | 2.0 |
| 1,2-Dichlorobenzene | 1.0 | U | 0.13 | 1.0 |
| 1,2-Dichloroethane | 1.0 | U | 0.22 | 1.0 |
| 1,2-Dichloropropane | 1.0 | U | 0.18 | 1.0 |
| 1,3-Dichlorobenzene | 1.0 | U | 0.14 | 1.0 |
| 1,3-Dichloropropane | 1.0 | U | 0.16 | 1.0 |
| 1,4-Dichlorobenzene | 1.0 | U | 0.13 | 1.0 |
| 2,2-Dichloropropane | 1.0 | U | 0.13 | 1.0 |
| 2-Chloroethyl vinyl ether | 10 | U | 0.99 | 10 |
| 2-Chlorotoluene | 1.0 | U | 0.11 | 1.0 |
| 2-Hexanone | 10 | U | 0.41 | 10 |
| Bromobenzene | 1.0 | U | 0.13 | 1.0 |
| Bromochloromethane | 1.0 | U | 0.29 | 1.0 |
| 4-Chlorotoluene | 1.0 | U | 0.18 | 1.0 |
| p-Isopropyltoluene | 1.0 | U | 0.12 | 1.0 |
| Acetone | 10 | U | 1.1 | 10 |
| Benzene | 1.0 | U | 0.13 | 1.0 |
| Bromoform | 1.0 | U | 0.64 | 1.0 |
| Bromomethane | 1.0 | U | 0.41 | 1.0 |
| Carbon disulfide | 1.0 | U | 0.13 | 1.0 |
| Carbon tetrachloride | 1.0 | U | 0.13 | 1.0 |
| Chlorobenzene | 1.0 | U | 0.15 | 1.0 |
| Chloroethane | 1.0 | U | 0.29 | 1.0 |
| Chloroform | 1.0 | U | 0.16 | 1.0 |
| Chloromethane | 1.0 | U | 0.30 | 1.0 |
| cis-1,2-Dichloroethene | 1.0 | U | 0.17 | 1.0 |
| cis-1,3-Dichloropropene | 1.0 | U | 0.14 | 1.0 |
| Hexachlorobutadiene | 1.0 | U | 0.30 | 1.0 |
| Dibromomethane | 1.0 | U | 0.28 | 1.0 |
| Bromodichloromethane | 1.0 | U | 0.15 | 1.0 |
| Dichlorodifluoromethane | 1.0 | U | 0.31 | 1.0 |
| Ethylbenzene | 1.0 | U | 0.17 | 1.0 |
| 1,2-Dibromoethane | 1.0 | U | 0.24 | 1.0 |

Client: Tetra Tech, Inc

Job Number: 240-14408-1

**Method Blank - Batch: 240-56479**

**Method: 8260B**
**Preparation: 5030B**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | MB 240-56479/5 | Analysis Batch: | 240-56479 | Instrument ID: | A3UX17 |
| Client Matrix: | Water | Prep Batch: | N/A | Lab File ID: | UXR943.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 08/31/2012 2240 | Units: | ug/L | Final Weight/Volume: | 5 mL |
| Prep Date: | 08/31/2012 2240 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| Diisopropyl ether | 10 | U | 1.5 | 10 |
| Naphthalene | 1.0 | U | 0.24 | 1.0 |
| m-Xylene & p-Xylene | 2.0 | U | 0.24 | 2.0 |
| n-Butylbenzene | 1.0 | U | 0.12 | 1.0 |
| Isopropylbenzene | 1.0 | U | 0.13 | 1.0 |
| n-Propylbenzene | 1.0 | U | 0.14 | 1.0 |
| 2-Butanone | 10 | U | 0.57 | 10 |
| 4-Methyl-2-pentanone | 10 | U | 0.32 | 10 |
| sec-Butylbenzene | 1.0 | U | 0.13 | 1.0 |
| Methyl tert-butyl ether | 5.0 | U | 0.17 | 5.0 |
| Tert-amyl-methyl ether (TAME) | 5.0 | U | 0.067 | 5.0 |
| Methylene Chloride | 1.0 | U | 0.33 | 1.0 |
| o-Xylene | 1.0 | U | 0.14 | 1.0 |
| Styrene | 1.0 | U | 0.11 | 1.0 |
| Ethyl-t-butyl ether (ETBE) | 5.0 | U | 0.11 | 5.0 |
| tert-Butylbenzene | 1.0 | U | 0.13 | 1.0 |
| Tetrachloroethene | 1.0 | U | 0.29 | 1.0 |
| Toluene | 1.0 | U | 0.13 | 1.0 |
| trans-1,2-Dichloroethene | 1.0 | U | 0.19 | 1.0 |
| trans-1,3-Dichloropropene | 1.0 | U | 0.19 | 1.0 |
| Trichloroethene | 1.0 | U | 0.17 | 1.0 |
| Trichlorofluoromethane | 1.0 | U | 0.21 | 1.0 |
| Vinyl acetate | 2.0 | U | 0.19 | 2.0 |
| Vinyl chloride | 1.0 | U | 0.22 | 1.0 |
| tert-Butyl alcohol | 50 | U | 3.9 | 50 |
| Xylenes, Total | 2.0 | U | 0.28 | 2.0 |
| Dibromochloromethane | 1.0 | U | 0.18 | 1.0 |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 88 | 63 - 129 |
| 4-Bromofluorobenzene (Surr) | 84 | 66 - 117 |
| Toluene-d8 (Surr) | 85 | 74 - 115 |
| Dibromofluoromethane (Surr) | 101 | 75 - 121 |

**Method Blank TICs- Batch: 240-56479**

| Cas Number | Analyte | RT | Est. Result | Qual |
|---|---|---|---|---|
| | Tentatively Identified Compound | | None | |

Client: Tetra Tech, Inc

Job Number: 240-14408-1

**Lab Control Sample - Batch: 240-56479**

**Method: 8260B**
**Preparation: 5030B**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | LCS 240-56479/4 | Analysis Batch: | 240-56479 | Instrument ID: | A3UX17 |
| Client Matrix: | Water | Prep Batch: | N/A | Lab File ID: | UXR942.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 08/31/2012 2218 | Units: | ug/L | Final Weight/Volume: | 5 mL |
| Prep Date: | 08/31/2012 2218 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 10.0 | 9.57 | 96 | 72 - 116 | |
| 1,1,1-Trichloroethane | 10.0 | 11.0 | 110 | 74 - 118 | |
| 1,1,2,2-Tetrachloroethane | 10.0 | 7.89 | 79 | 68 - 118 | |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 10.0 | 12.4 | 124 | 74 - 151 | |
| 1,1-Dichloroethane | 10.0 | 9.75 | 98 | 82 - 115 | |
| 1,1-Dichloroethene | 10.0 | 10.8 | 108 | 78 - 131 | |
| 1,1-Dichloropropene | 10.0 | 9.50 | 95 | 83 - 114 | |
| 1,2,3-Trichlorobenzene | 10.0 | 7.14 | 71 | 54 - 126 | |
| 1,2,3-Trichloropropane | 10.0 | 8.61 | 86 | 73 - 129 | |
| 1,2,3-Trimethylbenzene | 10.0 | 7.65 | 77 | 70 - 130 | |
| 1,2,4-Trichlorobenzene | 10.0 | 7.78 | 78 | 48 - 135 | |
| 1,2,4-Trimethylbenzene | 10.0 | 8.76 | 88 | 76 - 120 | |
| 1,2-Dibromo-3-Chloropropane | 10.0 | 7.28 | 73 | 42 - 136 | |
| 1,2-Dichlorobenzene | 10.0 | 9.18 | 92 | 81 - 110 | |
| 1,2-Dichloroethane | 10.0 | 9.65 | 97 | 71 - 127 | |
| 1,2-Dichloropropane | 10.0 | 9.49 | 95 | 81 - 115 | |
| 1,3-Dichlorobenzene | 10.0 | 9.21 | 92 | 80 - 110 | |
| 1,3-Dichloropropane | 10.0 | 8.82 | 88 | 79 - 116 | |
| 1,4-Dichlorobenzene | 10.0 | 9.11 | 91 | 82 - 110 | |
| 2,2-Dichloropropane | 10.0 | 8.62 | 86 | 50 - 129 | |
| 2-Chloroethyl vinyl ether | 10.0 | 8.08 | 81 | 52 - 131 | J |
| 2-Chlorotoluene | 10.0 | 9.14 | 91 | 76 - 116 | |
| 2-Hexanone | 20.0 | 11.9 | 59 | 55 - 133 | |
| Bromobenzene | 10.0 | 9.26 | 93 | 76 - 115 | |
| Bromochloromethane | 10.0 | 11.0 | 110 | 77 - 120 | |
| 4-Chlorotoluene | 10.0 | 9.16 | 92 | 77 - 115 | |
| p-Isopropyltoluene | 10.0 | 8.97 | 90 | 74 - 120 | |
| Acetone | 20.0 | 14.0 | 70 | 43 - 136 | |
| Benzene | 10.0 | 10.1 | 101 | 83 - 112 | |
| Bromoform | 10.0 | 7.59 | 76 | 40 - 131 | |
| Bromomethane | 10.0 | 11.5 | 115 | 11 - 185 | |
| Carbon disulfide | 10.0 | 10.0 | 100 | 62 - 142 | |
| Carbon tetrachloride | 10.0 | 11.4 | 114 | 66 - 128 | |
| Chlorobenzene | 10.0 | 9.42 | 94 | 85 - 110 | |
| Chloroethane | 10.0 | 6.72 | 67 | 25 - 153 | |
| Chloroform | 10.0 | 10.3 | 103 | 79 - 117 | |
| Chloromethane | 10.0 | 7.39 | 74 | 44 - 126 | |
| cis-1,2-Dichloroethene | 10.0 | 10.7 | 107 | 80 - 113 | |
| cis-1,3-Dichloropropene | 10.0 | 8.14 | 81 | 61 - 115 | |
| Hexachlorobutadiene | 10.0 | 7.26 | 73 | 36 - 134 | |
| Dibromomethane | 10.0 | 11.0 | 110 | 81 - 120 | |
| Bromodichloromethane | 10.0 | 10.3 | 103 | 72 - 121 | |
| Dichlorodifluoromethane | 10.0 | 6.88 | 69 | 19 - 129 | |
| Ethylbenzene | 10.0 | 9.31 | 93 | 83 - 112 | |
| 1,2-Dibromoethane | 10.0 | 9.35 | 94 | 79 - 113 | |
| Diisopropyl ether | 10.0 | 8.95 | 90 | 77 - 118 | J |

Client: Tetra Tech, Inc

Job Number: 240-14408-1

**Lab Control Sample - Batch: 240-56479**

**Method: 8260B**
**Preparation: 5030B**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | LCS 240-56479/4 | Analysis Batch: | 240-56479 | Instrument ID: | A3UX17 |
| Client Matrix: | Water | Prep Batch: | N/A | Lab File ID: | UXR942.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 08/31/2012 2218 | Units: | ug/L | Final Weight/Volume: | 5 mL |
| Prep Date: | 08/31/2012 2218 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Naphthalene | 10.0 | 7.15 | 72 | 32 - 141 | |
| m-Xylene & p-Xylene | 20.0 | 18.9 | 94 | 83 - 113 | |
| n-Butylbenzene | 10.0 | 8.20 | 82 | 66 - 125 | |
| Isopropylbenzene | 10.0 | 8.96 | 90 | 75 - 114 | |
| n-Propylbenzene | 10.0 | 9.20 | 92 | 74 - 121 | |
| 2-Butanone | 20.0 | 13.1 | 66 | 60 - 126 | |
| 4-Methyl-2-pentanone | 20.0 | 13.7 | 69 | 63 - 128 | |
| sec-Butylbenzene | 10.0 | 8.51 | 85 | 70 - 117 | |
| Methyl tert-butyl ether | 10.0 | 8.81 | 88 | 52 - 144 | |
| Methylene Chloride | 10.0 | 10.2 | 102 | 66 - 131 | |
| o-Xylene | 10.0 | 9.19 | 92 | 83 - 113 | |
| Styrene | 10.0 | 9.50 | 95 | 79 - 114 | |
| tert-Butylbenzene | 10.0 | 8.36 | 84 | 71 - 115 | |
| Tetrachloroethene | 10.0 | 9.53 | 95 | 79 - 114 | |
| Toluene | 10.0 | 9.00 | 90 | 84 - 111 | |
| trans-1,2-Dichloroethene | 10.0 | 11.1 | 111 | 83 - 117 | |
| trans-1,3-Dichloropropene | 10.0 | 6.90 | 69 | 58 - 117 | |
| Trichloroethene | 10.0 | 10.9 | 109 | 76 - 117 | |
| Trichlorofluoromethane | 10.0 | 11.9 | 119 | 49 - 157 | |
| Vinyl acetate | 10.0 | 7.65 | 77 | 46 - 161 | |
| Vinyl chloride | 10.0 | 8.53 | 85 | 53 - 127 | |
| tert-Butyl alcohol | 200 | 143 | 72 | 70 - 130 | |
| Xylenes, Total | 30.0 | 28.1 | 94 | 83 - 112 | |
| Dibromochloromethane | 10.0 | 9.38 | 94 | 64 - 119 | |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 89 | 63 - 129 |
| 4-Bromofluorobenzene (Surr) | 90 | 66 - 117 |
| Toluene-d8 (Surr) | 88 | 74 - 115 |
| Dibromofluoromethane (Surr) | 106 | 75 - 121 |

Client: Tetra Tech, Inc

Job Number: 240-14408-1

**Matrix Spike/**
**Matrix Spike Duplicate Recovery Report - Batch: 240-56479**

**Method: 8260B**
**Preparation: 5030B**

| | | | | | |
|---|---|---|---|---|---|
| MS Lab Sample ID: | 240-14497-E-10 MS | Analysis Batch: | 240-56479 | Instrument ID: | A3UX17 |
| Client Matrix: | Water | Prep Batch: | N/A | Lab File ID: | UXR964.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 09/01/2012 0629 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 09/01/2012 0629 | | | | |
| Leach Date: | N/A | | | | |

| | | | | | |
|---|---|---|---|---|---|
| MSD Lab Sample ID: | 240-14497-F-10 MSD | Analysis Batch: | 240-56479 | Instrument ID: | A3UX17 |
| Client Matrix: | Water | Prep Batch: | N/A | Lab File ID: | UXR965.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 09/01/2012 0651 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 09/01/2012 0651 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | % Rec. MS | % Rec. MSD | Limit | RPD | RPD Limit | MS Qual | MSD Qual |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 93 | 93 | 64 - 118 | 0 | 30 | | |
| 1,1,1-Trichloroethane | 107 | 109 | 68 - 121 | 2 | 30 | | |
| 1,1,2,2-Tetrachloroethane | 79 | 78 | 63 - 122 | 1 | 30 | | |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 109 | 113 | 70 - 152 | 4 | 30 | | |
| 1,1-Dichloroethane | 94 | 97 | 79 - 116 | 2 | 30 | | |
| 1,1-Dichloroethene | 108 | 109 | 74 - 135 | 1 | 30 | | |
| 1,1-Dichloropropene | 93 | 96 | 80 - 114 | 3 | 30 | | |
| 1,2,3-Trichlorobenzene | 68 | 70 | 45 - 129 | 3 | 30 | | |
| 1,2,3-Trichloropropane | 84 | 80 | 67 - 132 | 5 | 30 | | |
| 1,2,3-Trimethylbenzene | 75 | 74 | 70 - 130 | 1 | 30 | | |
| 1,2,4-Trichlorobenzene | 71 | 75 | 38 - 138 | 5 | 30 | | |
| 1,2,4-Trimethylbenzene | 85 | 84 | 67 - 124 | 1 | 30 | | |
| 1,2-Dibromo-3-Chloropropane | 71 | 70 | 32 - 139 | 2 | 30 | | |
| 1,2-Dichlorobenzene | 90 | 90 | 75 - 111 | 0 | 30 | | |
| 1,2-Dichloroethane | 94 | 94 | 68 - 129 | 0 | 30 | | |
| 1,2-Dichloropropane | 91 | 92 | 78 - 115 | 1 | 30 | | |
| 1,3-Dichlorobenzene | 92 | 90 | 73 - 110 | 2 | 30 | | |
| 1,3-Dichloropropane | 85 | 86 | 74 - 118 | 0 | 30 | | |
| 1,4-Dichlorobenzene | 89 | 89 | 75 - 110 | 1 | 30 | | |
| 2,2-Dichloropropane | 74 | 77 | 38 - 127 | 5 | 30 | | |
| 2-Chloroethyl vinyl ether | 0 | 0 | 10 - 150 | NC | 30 | U F | U F |
| 2-Chlorotoluene | 90 | 89 | 69 - 117 | 1 | 30 | | |
| 2-Hexanone | 58 | 59 | 47 - 139 | 2 | 30 | | |
| Bromobenzene | 90 | 90 | 71 - 116 | 0 | 30 | | |
| Bromochloromethane | 107 | 108 | 73 - 121 | 1 | 30 | | |
| 4-Chlorotoluene | 92 | 90 | 71 - 116 | 2 | 30 | | |
| p-Isopropyltoluene | 88 | 89 | 64 - 122 | 1 | 30 | | |
| Acetone | 65 | 68 | 33 - 145 | 4 | 30 | | |
| Benzene | 98 | 99 | 72 - 121 | 1 | 30 | | |
| Bromoform | 74 | 71 | 32 - 128 | 5 | 30 | | |
| Bromomethane | 97 | 107 | 10 - 186 | 10 | 30 | | |
| Carbon disulfide | 98 | 101 | 57 - 147 | 2 | 30 | | |
| Carbon tetrachloride | 110 | 116 | 59 - 129 | 5 | 30 | | |

Client: Tetra Tech, Inc

Job Number: 240-14408-1

**Matrix Spike/**
**Matrix Spike Duplicate Recovery Report - Batch: 240-56479**

**Method: 8260B**
**Preparation: 5030B**

| | | | | | |
|---|---|---|---|---|---|
| MS Lab Sample ID: | 240-14497-E-10 MS | Analysis Batch: | 240-56479 | Instrument ID: | A3UX17 |
| Client Matrix: | Water | Prep Batch: | N/A | Lab File ID: | UXR964.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 09/01/2012 0629 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 09/01/2012 0629 | | | | |
| Leach Date: | N/A | | | | |

| | | | | | |
|---|---|---|---|---|---|
| MSD Lab Sample ID: | 240-14497-F-10 MSD | Analysis Batch: | 240-56479 | Instrument ID: | A3UX17 |
| Client Matrix: | Water | Prep Batch: | N/A | Lab File ID: | UXR965.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 09/01/2012 0651 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 09/01/2012 0651 | | | | |
| Leach Date: | N/A | | | | |

| | % Rec. | | | | | | |
|---|---|---|---|---|---|---|---|
| Analyte | MS | MSD | Limit | RPD | RPD Limit | MS Qual | MSD Qual |
| Chlorobenzene | 93 | 94 | 80 - 110 | 1 | 30 | | |
| Chloroethane | 60 | 63 | 21 - 165 | 5 | 30 | | |
| Chloroform | 99 | 101 | 76 - 118 | 2 | 30 | | |
| Chloromethane | 70 | 71 | 33 - 132 | 1 | 30 | | |
| cis-1,2-Dichloroethene | 106 | 107 | 70 - 120 | 1 | 30 | | |
| cis-1,3-Dichloropropene | 70 | 72 | 51 - 110 | 3 | 30 | | |
| Hexachlorobutadiene | 67 | 70 | 27 - 132 | 4 | 30 | | |
| Dibromomethane | 105 | 107 | 77 - 121 | 2 | 30 | | |
| Bromodichloromethane | 99 | 99 | 67 - 120 | 0 | 30 | | |
| Dichlorodifluoromethane | 61 | 63 | 17 - 128 | 3 | 30 | | |
| Ethylbenzene | 92 | 93 | 75 - 116 | 1 | 30 | | |
| 1,2-Dibromoethane | 90 | 90 | 74 - 113 | 0 | 30 | | |
| Diisopropyl ether | 86 | 87 | 73 - 118 | 1 | 30 | J | J |
| Naphthalene | 68 | 70 | 15 - 158 | 3 | 30 | | |
| m-Xylene & p-Xylene | 94 | 93 | 75 - 117 | 1 | 30 | | |
| n-Butylbenzene | 78 | 80 | 56 - 127 | 2 | 30 | | |
| Isopropylbenzene | 89 | 91 | 68 - 116 | 2 | 30 | | |
| n-Propylbenzene | 90 | 92 | 64 - 124 | 2 | 30 | | |
| 2-Butanone | 63 | 64 | 54 - 129 | 2 | 30 | | |
| 4-Methyl-2-pentanone | 65 | 66 | 56 - 131 | 2 | 30 | | |
| sec-Butylbenzene | 83 | 85 | 60 - 119 | 2 | 30 | | |
| Methyl tert-butyl ether | 83 | 85 | 46 - 144 | 2 | 30 | | |
| Methylene Chloride | 92 | 92 | 63 - 128 | 0 | 30 | | |
| o-Xylene | 90 | 91 | 76 - 116 | 1 | 30 | | |
| Styrene | 85 | 82 | 71 - 117 | 3 | 30 | | |
| tert-Butylbenzene | 83 | 84 | 61 - 119 | 1 | 30 | | |
| Tetrachloroethene | 95 | 96 | 70 - 117 | 1 | 30 | | |
| Toluene | 88 | 89 | 78 - 114 | 0 | 30 | | |
| trans-1,2-Dichloroethene | 109 | 111 | 80 - 119 | 2 | 30 | | |
| trans-1,3-Dichloropropene | 63 | 64 | 46 - 116 | 2 | 30 | | |
| Trichloroethene | 107 | 106 | 66 - 120 | 1 | 30 | | |
| Trichlorofluoromethane | 110 | 113 | 46 - 157 | 3 | 30 | | |
| Vinyl acetate | 62 | 61 | 43 - 157 | 2 | 30 | | |

Client: Tetra Tech, Inc

Job Number: 240-14408-1

**Matrix Spike/**
**Matrix Spike Duplicate Recovery Report - Batch: 240-56479**

**Method: 8260B**
**Preparation: 5030B**

| | | | | | |
|---|---|---|---|---|---|
| MS Lab Sample ID: | 240-14497-E-10 MS | Analysis Batch: | 240-56479 | Instrument ID: | A3UX17 |
| Client Matrix: | Water | Prep Batch: | N/A | Lab File ID: | UXR964.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 09/01/2012 0629 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 09/01/2012 0629 | | | | |
| Leach Date: | N/A | | | | |

| | | | | | |
|---|---|---|---|---|---|
| MSD Lab Sample ID: | 240-14497-F-10 MSD | Analysis Batch: | 240-56479 | Instrument ID: | A3UX17 |
| Client Matrix: | Water | Prep Batch: | N/A | Lab File ID: | UXR965.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 09/01/2012 0651 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 09/01/2012 0651 | | | | |
| Leach Date: | N/A | | | | |

| | % Rec. | | | | | | |
|---|---|---|---|---|---|---|---|
| Analyte | MS | MSD | Limit | RPD | RPD Limit | MS Qual | MSD Qual |
| Vinyl chloride | 82 | 83 | 49 - 130 | 2 | 30 | | |
| tert-Butyl alcohol | 67 | 72 | 70 - 130 | 7 | 30 | F | |
| Xylenes, Total | 92 | 92 | 76 - 116 | 0 | 30 | | |
| Dibromochloromethane | 89 | 89 | 56 - 118 | 0 | 30 | | |

| Surrogate | MS % Rec | MSD % Rec | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 86 | 88 | 63 - 129 |
| 4-Bromofluorobenzene (Surr) | 89 | 90 | 66 - 117 |
| Toluene-d8 (Surr) | 86 | 88 | 74 - 115 |
| Dibromofluoromethane (Surr) | 103 | 105 | 75 - 121 |

Client: Tetra Tech, Inc

Job Number: 240-14408-1

**Matrix Spike/**
**Matrix Spike Duplicate Recovery Report - Batch: 240-56479**

**Method: 8260B**
**Preparation: 5030B**

| | | | | | |
|---|---|---|---|---|---|
| MS Lab Sample ID: | 240-14497-E-10 MS | Units: | ug/L | MSD Lab Sample ID: | 240-14497-F-10 MSD |
| Client Matrix: | Water | | | Client Matrix: | Water |
| Dilution: | 1.0 | | | Dilution: | 1.0 |
| Analysis Date: | 09/01/2012 0629 | | | Analysis Date: | 09/01/2012 0651 |
| Prep Date: | 09/01/2012 0629 | | | Prep Date: | 09/01/2012 0651 |
| Leach Date: | N/A | | | Leach Date: | N/A |

| Analyte | Sample Result/Qual | | MS Spike Amount | MSD Spike Amount | MS Result/Qual | | MSD Result/Qual | |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 1.0 | U | 10.0 | 10.0 | 9.32 | | 9.35 | |
| 1,1,1-Trichloroethane | 0.34 | J | 10.0 | 10.0 | 11.0 | | 11.3 | |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 10.0 | 10.0 | 7.86 | | 7.77 | |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0 | U | 10.0 | 10.0 | 10.9 | | 11.3 | |
| 1,1-Dichloroethane | 0.84 | J | 10.0 | 10.0 | 10.3 | | 10.5 | |
| 1,1-Dichloroethene | 1.0 | U | 10.0 | 10.0 | 10.8 | | 10.9 | |
| 1,1-Dichloropropene | 1.0 | U | 10.0 | 10.0 | 9.34 | | 9.58 | |
| 1,2,3-Trichlorobenzene | 1.0 | U | 10.0 | 10.0 | 6.79 | | 6.99 | |
| 1,2,3-Trichloropropane | 1.0 | U | 10.0 | 10.0 | 8.41 | | 8.03 | |
| 1,2,3-Trimethylbenzene | 5.0 | U | 10.0 | 10.0 | 7.51 | | 7.43 | |
| 1,2,4-Trichlorobenzene | 1.0 | U | 10.0 | 10.0 | 7.13 | | 7.46 | |
| 1,2,4-Trimethylbenzene | 1.0 | U | 10.0 | 10.0 | 8.49 | | 8.39 | |
| 1,2-Dibromo-3-Chloropropane | 2.0 | U | 10.0 | 10.0 | 7.15 | | 6.98 | |
| 1,2-Dichlorobenzene | 1.0 | U | 10.0 | 10.0 | 8.97 | | 8.96 | |
| 1,2-Dichloroethane | 1.0 | U | 10.0 | 10.0 | 9.37 | | 9.39 | |
| 1,2-Dichloropropane | 1.0 | U | 10.0 | 10.0 | 9.11 | | 9.24 | |
| 1,3-Dichlorobenzene | 1.0 | U | 10.0 | 10.0 | 9.20 | | 9.02 | |
| 1,3-Dichloropropane | 1.0 | U | 10.0 | 10.0 | 8.52 | | 8.55 | |
| 1,4-Dichlorobenzene | 1.0 | U | 10.0 | 10.0 | 8.87 | | 8.92 | |
| 2,2-Dichloropropane | 1.0 | U | 10.0 | 10.0 | 7.35 | | 7.69 | |
| 2-Chloroethyl vinyl ether | 10 | U | 10.0 | 10.0 | 10 | U F | 10 | U F |
| 2-Chlorotoluene | 1.0 | U | 10.0 | 10.0 | 9.00 | | 8.92 | |
| 2-Hexanone | 10 | U | 20.0 | 20.0 | 11.5 | | 11.7 | |
| Bromobenzene | 1.0 | U | 10.0 | 10.0 | 9.03 | | 9.01 | |
| Bromochloromethane | 1.0 | U | 10.0 | 10.0 | 10.7 | | 10.8 | |
| 4-Chlorotoluene | 1.0 | U | 10.0 | 10.0 | 9.19 | | 9.01 | |
| p-Isopropyltoluene | 1.0 | U | 10.0 | 10.0 | 8.84 | | 8.93 | |
| Acetone | 10 | U | 20.0 | 20.0 | 13.0 | | 13.6 | |
| Benzene | 1.0 | U | 10.0 | 10.0 | 9.76 | | 9.86 | |
| Bromoform | 1.0 | U | 10.0 | 10.0 | 7.44 | | 7.09 | |
| Bromomethane | 1.0 | U | 10.0 | 10.0 | 9.72 | | 10.7 | |
| Carbon disulfide | 1.0 | U | 10.0 | 10.0 | 9.81 | | 10.1 | |
| Carbon tetrachloride | 1.0 | U | 10.0 | 10.0 | 11.0 | | 11.6 | |
| Chlorobenzene | 1.0 | U | 10.0 | 10.0 | 9.25 | | 9.36 | |
| Chloroethane | 1.0 | U | 10.0 | 10.0 | 6.00 | | 6.27 | |
| Chloroform | 1.0 | U | 10.0 | 10.0 | 9.95 | | 10.1 | |
| Chloromethane | 1.0 | U | 10.0 | 10.0 | 6.99 | | 7.07 | |
| cis-1,2-Dichloroethene | 1.0 | U | 10.0 | 10.0 | 10.6 | | 10.7 | |
| cis-1,3-Dichloropropene | 1.0 | U | 10.0 | 10.0 | 7.02 | | 7.22 | |
| Hexachlorobutadiene | 1.0 | U | 10.0 | 10.0 | 6.71 | | 6.99 | |
| Dibromomethane | 1.0 | U | 10.0 | 10.0 | 10.5 | | 10.7 | |
| Bromodichloromethane | 1.0 | U | 10.0 | 10.0 | 9.85 | | 9.86 | |
| Dichlorodifluoromethane | 1.0 | U | 10.0 | 10.0 | 6.09 | | 6.25 | |

Client: Tetra Tech, Inc

Job Number: 240-14408-1

**Matrix Spike/**
**Matrix Spike Duplicate Recovery Report - Batch: 240-56479**

**Method: 8260B**
**Preparation: 5030B**

| | | | |
|---|---|---|---|
| MS Lab Sample ID: | 240-14497-E-10 MS | Units: | ug/L |
| Client Matrix: | Water | | |
| Dilution: | 1.0 | | |
| Analysis Date: | 09/01/2012 0629 | | |
| Prep Date: | 09/01/2012 0629 | | |
| Leach Date: | N/A | | |

| | |
|---|---|
| MSD Lab Sample ID: | 240-14497-F-10 MSD |
| Client Matrix: | Water |
| Dilution: | 1.0 |
| Analysis Date: | 09/01/2012 0651 |
| Prep Date: | 09/01/2012 0651 |
| Leach Date: | N/A |

| Analyte | Sample Result/Qual | | MS Spike Amount | MSD Spike Amount | MS Result/Qual | | MSD Result/Qual | |
|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 1.0 | U | 10.0 | 10.0 | 9.17 | | 9.31 | |
| 1,2-Dibromoethane | 1.0 | U | 10.0 | 10.0 | 8.98 | | 8.96 | |
| Diisopropyl ether | 10 | U | 10.0 | 10.0 | 8.57 | J | 8.69 | J |
| Naphthalene | 1.0 | U | 10.0 | 10.0 | 6.76 | | 6.98 | |
| m-Xylene & p-Xylene | 2.0 | U | 20.0 | 20.0 | 18.7 | | 18.6 | |
| n-Butylbenzene | 1.0 | U | 10.0 | 10.0 | 7.85 | | 7.99 | |
| Isopropylbenzene | 1.0 | U | 10.0 | 10.0 | 8.89 | | 9.05 | |
| n-Propylbenzene | 1.0 | U | 10.0 | 10.0 | 8.98 | | 9.16 | |
| 2-Butanone | 10 | U | 20.0 | 20.0 | 12.6 | | 12.8 | |
| 4-Methyl-2-pentanone | 10 | U | 20.0 | 20.0 | 12.9 | | 13.2 | |
| sec-Butylbenzene | 1.0 | U | 10.0 | 10.0 | 8.29 | | 8.46 | |
| Methyl tert-butyl ether | 5.0 | U | 10.0 | 10.0 | 8.32 | | 8.52 | |
| Methylene Chloride | 1.0 | U | 10.0 | 10.0 | 9.19 | | 9.17 | |
| o-Xylene | 1.0 | U | 10.0 | 10.0 | 8.99 | | 9.08 | |
| Styrene | 1.0 | U | 10.0 | 10.0 | 8.50 | | 8.22 | |
| tert-Butylbenzene | 1.0 | U | 10.0 | 10.0 | 8.31 | | 8.41 | |
| Tetrachloroethene | 1.0 | U | 10.0 | 10.0 | 9.55 | | 9.64 | |
| Toluene | 1.0 | U | 10.0 | 10.0 | 8.83 | | 8.86 | |
| trans-1,2-Dichloroethene | 1.0 | U | 10.0 | 10.0 | 10.9 | | 11.1 | |
| trans-1,3-Dichloropropene | 1.0 | U | 10.0 | 10.0 | 6.27 | | 6.38 | |
| Trichloroethene | 1.0 | U | 10.0 | 10.0 | 10.7 | | 10.6 | |
| Trichlorofluoromethane | 1.0 | U | 10.0 | 10.0 | 11.0 | | 11.3 | |
| Vinyl acetate | 2.0 | U | 10.0 | 10.0 | 6.21 | | 6.10 | |
| Vinyl chloride | 1.0 | U | 10.0 | 10.0 | 8.18 | | 8.33 | |
| tert-Butyl alcohol | 50 | U | 200 | 200 | 133 | F | 143 | |
| Xylenes, Total | 2.0 | U | 30.0 | 30.0 | 27.7 | | 27.7 | |
| Dibromochloromethane | 1.0 | U | 10.0 | 10.0 | 8.90 | | 8.93 | |

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-14408-1

SDG No.:

Lab File ID: BFB0004.D BFB Injection Date: 07/19/2012

Instrument ID: A3UX17 BFB Injection Time: 12:10

Analysis Batch No.: 51327

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 50 | 15.0 - 40.0 % of mass 95 | 21.9 | |
| 75 | 30.0 - 60.0 % of mass 95 | 52.4 | |
| 95 | Base Peak, 100% relative abundance | 100.0 | |
| 96 | 5.0 - 9.0 % of mass 95 | 6.6 | |
| 173 | Less than 2.0 % of mass 174 | 0.7 | (1.1)1 |
| 174 | 50.0 - 120.00 % of mass 95 | 65.5 | |
| 175 | 5.0 - 9.0 % of mass 174 | 4.7 | (7.1)1 |
| 176 | 95.0 - 101.0 % of mass 174 | 62.3 | (95.1)1 |
| 177 | 5.0 - 9.0 % of mass 176 | 3.7 | (6.0)2 |

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | STDA9 240-51327/8 | UXR0018.D | 07/19/2012 | 14:58 |
| | STDA9 240-51327/9 | UXR0019.D | 07/19/2012 | 15:22 |
| | STDA9 240-51327/10 | UXR0020.D | 07/19/2012 | 15:46 |
| | STDA9 240-51327/11 | UXR0021.D | 07/19/2012 | 16:10 |
| | STDA9 240-51327/12 | UXR0022.D | 07/19/2012 | 16:34 |
| | STDA9 240-51327/13 | UXR0023.D | 07/19/2012 | 16:58 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-14408-1 Analy Batch No.: 51327

SDG No.:

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/19/2012 14:58 Calibration End Date: 07/19/2012 16:58 Calibration ID: 10211

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STDA9 240-51327/13 | UXR0023.D |
| Level 2 | STDA9 240-51327/12 | UXR0022.D |
| Level 3 | STDA9 240-51327/11 | UXR0021.D |
| Level 4 | STDA9 240-51327/10 | UXR0020.D |
| Level 5 | STDA9 240-51327/9 | UXR0019.D |
| Level 6 | STDA9 240-51327/8 | UXR0018.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Dichlorofluoromethane | 0.4522<br>0.4855 | 0.4820 | 0.5023 | 0.4681 | 0.5006 | Ave | | 0.4818 | | | | 4.0 | | 15.0 | | | |
| Ethyl ether | 0.3353<br>0.3254 | 0.3097 | 0.3366 | 0.3169 | 0.3361 | Ave | | 0.3267 | | | | 3.5 | | 15.0 | | | |
| 3-Chloro-1-propene | 0.1640<br>0.1830 | 0.1600 | 0.1821 | 0.1760 | 0.1895 | Ave | | 0.1758 | | | | 6.6 | | 15.0 | | | |
| Diisopropyl ether | 0.2614<br>0.2855 | 0.2537 | 0.2837 | 0.2734 | 0.2936 | Ave | | 0.2752 | | | | 5.6 | | 15.0 | | | |
| 2-Chloro-1,3-butadiene | 0.5093<br>0.5961 | 0.5185 | 0.5838 | 0.5625 | 0.6109 | Ave | | 0.5635 | | | | 7.4 | | 15.0 | | | |
| Ethyl-t-butyl ether (ETBE) | 1.1140<br>1.2158 | 1.0770 | 1.2149 | 1.1662 | 1.2362 | Ave | | 1.1707 | | | | 5.4 | | 15.0 | | | |
| Ethyl acetate | 0.3348<br>0.3460 | 0.3125 | 0.3272 | 0.3133 | 0.3513 | Ave | | 0.3309 | | | | 4.9 | | 15.0 | | | |
| Propionitrile | 0.0495<br>0.0524 | 0.0467 | 0.0488 | 0.0478 | 0.0539 | Ave | | 0.0498 | | | | 5.5 | | 15.0 | | | |
| Methacrylonitrile | 0.2228<br>0.2572 | 0.2111 | 0.2622 | 0.2455 | 0.2663 | Ave | | 0.2442 | | | | 9.2 | | 15.0 | | | |
| Isobutyl alcohol | 0.0164<br>0.0180 | 0.0180 | 0.0180 | 0.0179 | 0.0198 | Ave | | 0.0180 | | | | 6.1 | | 15.0 | | | |
| Tert-amyl-methyl ether (TAME) | 0.8847<br>1.0258 | 0.9011 | 0.9988 | 0.9612 | 1.0423 | Ave | | 0.9690 | | | | 6.7 | | 15.0 | | | |
| n-Heptane | 0.0600<br>0.0793 | 0.0685 | 0.0782 | 0.0662 | 0.0803 | Ave | | 0.0721 | | | | 12.0 | | 15.0 | | | |
| n-Butanol | 0.0142<br>0.0139 | 0.0169 | 0.0151 | 0.0148 | 0.0168 | Ave | | 0.0153 | | | | 8.4 | | 15.0 | | | |
| Methyl methacrylate | 0.2738<br>0.3295 | 0.2619 | 0.3020 | 0.2931 | 0.3318 | Ave | | 0.2987 | | | | 9.5 | | 15.0 | | | |
| 2-Nitropropane | 0.0742<br>0.0855 | 0.0945 | 0.0821 | 0.0760 | 0.0842 | Ave | | 0.0828 | | | | 8.8 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-14408-1 Analy Batch No.: 51327

SDG No.:

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/19/2012 14:58 Calibration End Date: 07/19/2012 16:58 Calibration ID: 10211

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Cyclohexanone | 0.0334<br>0.0267 | 0.0337 | 0.0270 | 0.0283 | 0.0318 | Ave | | 0.0302 | | | | 11.0 | | 15.0 | | | |
| 1,2,3-Trimethylbenzene | 3.0328<br>3.6170 | 2.9827 | 3.4248 | 3.3489 | 3.6166 | Ave | | 3.3371 | | | | 8.3 | | 15.0 | | | |
| 2-Methylnaphthalene | 1.3072<br>1.6905 | 1.3493 | 1.5557 | 1.6507 | 1.7715 | Ave | | 1.5541 | | | | 12.0 | | 15.0 | | | |
| n-Butyl acetate | 0.3008<br>0.3477 | 0.2791 | 0.3271 | 0.3132 | 0.3549 | Ave | | 0.3205 | | | | 9.0 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-14408-1 Analy Batch No.: 51327

SDG No.:

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/19/2012 14:58 Calibration End Date: 07/19/2012 16:58 Calibration ID: 10211

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STDA9 240-51327/13 | UXR0023.D |
| Level 2 | STDA9 240-51327/12 | UXR0022.D |
| Level 3 | STDA9 240-51327/11 | UXR0021.D |
| Level 4 | STDA9 240-51327/10 | UXR0020.D |
| Level 5 | STDA9 240-51327/9 | UXR0019.D |
| Level 6 | STDA9 240-51327/8 | UXR0018.D |

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Dichlorofluoromethane | FB | Ave | 31741<br>2768308 | 68515 | 345317 | 658367 | 1418335 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| Ethyl ether | FB | Ave | 23534<br>1855355 | 44016 | 231356 | 445686 | 952323 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| 3-Chloro-1-propene | FB | Ave | 11511<br>1043528 | 22743 | 125151 | 247584 | 537047 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| Diisopropyl ether | FB | Ave | 91737<br>8138005 | 180308 | 975100 | 1922232 | 4159508 | 2.50<br>200 | 5.00 | 25.0 | 50.0 | 100 |
| 2-Chloro-1,3-butadiene | FB | Ave | 35746<br>3398744 | 73703 | 401337 | 791098 | 1731105 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| Ethyl-t-butyl ether (ETBE) | FB | Ave | 78190<br>6932215 | 153083 | 835128 | 1640112 | 3502743 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| Ethyl acetate | FB | Ave | 47001<br>3945083 | 88836 | 449831 | 881314 | 1990986 | 1.00<br>80.0 | 2.00 | 10.0 | 20.0 | 40.0 |
| Propionitrile | FB | Ave | 6944<br>597108 | 13275 | 67091 | 134524 | 305301 | 1.00<br>80.0 | 2.00 | 10.0 | 20.0 | 40.0 |
| Methacrylonitrile | FB | Ave | 15638<br>1466512 | 30011 | 180236 | 345254 | 754472 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| Isobutyl alcohol | CBZ | Ave | 14767<br>1313808 | 32275 | 158085 | 316481 | 700996 | 10.0<br>800 | 20.0 | 100 | 200 | 400 |
| Tert-amyl-methyl ether (TAME) | FB | Ave | 62098<br>5848884 | 128078 | 686593 | 1351794 | 2953327 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| n-Heptane | FB | Ave | 4210<br>452301 | 9736 | 53739 | 93156 | 227435 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| n-Butanol | CBZ | Ave | 12818<br>1015645 | 30335 | 133223 | 262567 | 593341 | 10.0<br>800 | 20.0 | 100 | 200 | 400 |
| Methyl methacrylate | FB | Ave | 19217<br>1878887 | 37226 | 207629 | 412219 | 940260 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| 2-Nitropropane | FB | Ave | 10413<br>975258 | 26861 | 112891 | 213780 | 477353 | 1.00<br>80.0 | 2.00 | 10.0 | 20.0 | 40.0 |
| Cyclohexanone | DCB | Ave | 7857<br>517121 | 15749 | 62844 | 134395 | 304891 | 5.00<br>400 | 10.0 | 50.0 | 100 | 200 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-14408-1 Analy Batch No.: 51327

SDG No.:

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/19/2012 14:58 Calibration End Date: 07/19/2012 16:58 Calibration ID: 10211

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| 1,2,3-Trimethylbenzene | DCB | Ave | 71412<br>7018435 | 139202 | 796502 | 1587802 | 3465285 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| 2-Methylnaphthalene | DCB | Ave | 61560<br>6560468 | 125944 | 723600 | 1565226 | 3394721 | 1.00<br>80.0 | 2.00 | 10.0 | 20.0 | 40.0 |
| n-Butyl acetate | CBZ | Ave | 27079<br>2544750 | 50066 | 287669 | 554660 | 1254012 | 1.00<br>80.0 | 2.00 | 10.0 | 20.0 | 40.0 |

Curve Type Legend:
Ave = Average ISTD

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton | Job No.: 240-14408-1 | Analy Batch No.: 52548

SDG No.:

Instrument ID: A3UX17 | GC Column: DB-624 | ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2012 16:22 | Calibration End Date: 07/30/2012 18:22 | Calibration ID: 10345

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD8260 240-52548/7 | UXR0221.D |
| Level 2 | STD8260 240-52548/6 | UXR0220.D |
| Level 3 | STD8260 240-52548/5 | UXR0219.D |
| Level 4 | STD8260 240-52548/4 | UXR0218.D |
| Level 5 | STD8260 240-52548/3 | UXR0217.D |
| Level 6 | STD8260 240-52548/2 | UXR0216.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Dichlorodifluoromethane | 0.2422<br>0.2741 | 0.2357 | 0.2381 | 0.2681 | 0.2598 | Ave | | 0.2530 | | | | 6.5 | | 15.0 | | | |
| Chloromethane | 0.4364<br>0.4223 | 0.4205 | 0.3960 | 0.4290 | 0.4124 | Ave | | 0.4194 | | | 0.1000 | 3.3 | | 15.0 | | | |
| Vinyl chloride | 0.3459<br>0.3658 | 0.3436 | 0.3453 | 0.3668 | 0.3575 | Ave | | 0.3542 | | | | 3.0 | | 15.0 | | | |
| Bromomethane | 0.1440<br>0.0916 | 0.1232 | 0.0955 | 0.1112 | 0.1089 | Lin1 | 0.0263 | 0.0976 | | | | | | | 0.9920 | | 0.9900 |
| Chloroethane | 0.2108<br>0.1675 | 0.2114 | 0.1681 | 0.1863 | 0.1837 | Ave | | 0.1880 | | | | 10.0 | | 15.0 | | | |
| Trichlorofluoromethane | 0.2331<br>0.2388 | 0.2312 | 0.2281 | 0.2497 | 0.2448 | Ave | | 0.2376 | | | | 3.5 | | 15.0 | | | |
| Acrolein | 0.0650<br>0.0389 | 0.0338 | 0.0373 | 0.0419 | 0.0389 | Lin1 | 0.0692 | 0.0387 | | | | | | | 0.9970 | | 0.9900 |
| 1,1-Dichloroethene | 0.2151<br>0.2234 | 0.2190 | 0.2115 | 0.2361 | 0.2139 | Ave | | 0.2198 | | | | 4.1 | | 15.0 | | | |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 0.1495<br>0.1523 | 0.1426 | 0.1416 | 0.1605 | 0.1489 | Ave | | 0.1492 | | | | 4.6 | | 15.0 | | | |
| Acetone | 0.2863<br>0.0908 | 0.1555 | 0.1019 | 0.1078 | 0.0931 | Lin1 | 0.1766 | 0.0896 | | | | | | | 0.9970 | | 0.9900 |
| Iodomethane | 0.3091<br>0.2934 | 0.3066 | 0.2915 | 0.3323 | 0.3025 | Ave | | 0.3059 | | | | 4.8 | | 15.0 | | | |
| Carbon disulfide | 0.7408<br>0.8232 | 0.7192 | 0.7179 | 0.8344 | 0.7761 | Ave | | 0.7686 | | | | 6.7 | | 15.0 | | | |
| Acetonitrile | 0.0851<br>0.0404 | 0.0386 | 0.0405 | 0.0447 | 0.0411 | Lin1 | 0.1443 | 0.0403 | | | | | | | 0.9950 | | 0.9900 |
| Methyl acetate | 0.4276<br>0.2707 | 0.2636 | 0.2624 | 0.2920 | 0.2676 | Lin1 | 0.1002 | 0.2692 | | | | | | | 0.9980 | | 0.9900 |
| Methylene Chloride | 1.0843<br>0.2761 | 0.6794 | 0.3293 | 0.3299 | 0.2795 | Lin1 | 0.4098 | 0.2659 | | | | | | | 0.9980 | | 0.9900 |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-14408-1 Analy Batch No.: 52548

SDG No.:

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2012 16:22 Calibration End Date: 07/30/2012 18:22 Calibration ID: 10345

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| tert-Butyl alcohol | 0.0214<br>0.0231 | 0.0226 | 0.0222 | 0.0251 | 0.0234 | Ave | | 0.0230 | | | | 5.6 | | 15.0 | | | |
| Acrylonitrile | 0.2141<br>0.1228 | 0.1071 | 0.1187 | 0.1338 | 0.1227 | Lin1 | 0.0504 | 0.1224 | | | | | | | 0.9960 | | 0.9900 |
| Methyl tert-butyl ether | 0.8142<br>0.8440 | 0.8123 | 0.7960 | 0.8929 | 0.8145 | Ave | | 0.8290 | | | | 4.2 | | 15.0 | | | |
| trans-1,2-Dichloroethene | 0.2598<br>0.2459 | 0.2389 | 0.2392 | 0.2660 | 0.2412 | Ave | | 0.2485 | | | | 4.7 | | 15.0 | | | |
| Hexane | 0.0788<br>0.0735 | 0.0701 | 0.0635 | 0.0743 | 0.0693 | Ave | | 0.0716 | | | | 7.3 | | 15.0 | | | |
| 1,1-Dichloroethane | 0.5208<br>0.5088 | 0.5056 | 0.4848 | 0.5347 | 0.4907 | Ave | | 0.5076 | | | 0.1000 | 3.7 | | 15.0 | | | |
| Vinyl acetate | 0.0638<br>0.0481 | 0.0381 | 0.0408 | 0.0455 | 0.0467 | Lin1 | 0.0006 | 0.0468 | | | | | | | 0.9970 | | 0.9900 |
| 2,2-Dichloropropane | 0.2281<br>0.2415 | 0.2127 | 0.2231 | 0.2564 | 0.2374 | Ave | | 0.2332 | | | | 6.6 | | 15.0 | | | |
| cis-1,2-Dichloroethene | 0.2883<br>0.2691 | 0.2656 | 0.2651 | 0.2926 | 0.2666 | Ave | | 0.2746 | | | | 4.5 | | 15.0 | | | |
| 2-Butanone | 0.2851<br>0.1429 | 0.1400 | 0.1428 | 0.1534 | 0.1427 | Lin1 | 0.0939 | 0.1414 | | | | | | | 0.9970 | | 0.9900 |
| Bromochloromethane | 0.1195<br>0.1156 | 0.1173 | 0.1097 | 0.1243 | 0.1136 | Ave | | 0.1167 | | | | 4.3 | | 15.0 | | | |
| Tetrahydrofuran | 0.1276<br>0.0965 | 0.1203 | 0.0943 | 0.1053 | 0.0950 | Ave | | 0.1065 | | | | 13.0 | | 15.0 | | | |
| Chloroform | 0.4303<br>0.4367 | 0.4226 | 0.4185 | 0.4603 | 0.4253 | Ave | | 0.4323 | | | | 3.5 | | 15.0 | | | |
| 1,1,1-Trichloroethane | 0.2828<br>0.3027 | 0.2855 | 0.2882 | 0.3236 | 0.3006 | Ave | | 0.2972 | | | | 5.1 | | 15.0 | | | |
| Cyclohexane | 0.5679<br>0.5899 | 0.5384 | 0.5166 | 0.5873 | 0.5563 | Ave | | 0.5594 | | | | 5.1 | | 15.0 | | | |
| 1,1-Dichloropropene | 0.3820<br>0.3778 | 0.3670 | 0.3551 | 0.3939 | 0.3639 | Ave | | 0.3733 | | | | 3.8 | | 15.0 | | | |
| Carbon tetrachloride | 0.2142<br>0.2609 | 0.2241 | 0.2237 | 0.2635 | 0.2475 | Ave | | 0.2390 | | | | 8.8 | | 15.0 | | | |
| Benzene | 1.2466<br>1.1756 | 1.1889 | 1.1018 | 1.2243 | 1.1267 | Ave | | 1.1773 | | | | 4.7 | | 15.0 | | | |
| 1,2-Dichloroethane | 0.3650<br>0.3639 | 0.3671 | 0.3533 | 0.3888 | 0.3513 | Ave | | 0.3649 | | | | 3.7 | | 15.0 | | | |
| Trichloroethene | 0.2556<br>0.2450 | 0.2397 | 0.2379 | 0.2585 | 0.2379 | Ave | | 0.2458 | | | | 3.7 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-14408-1 Analy Batch No.: 52548

SDG No.:

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2012 16:22 Calibration End Date: 07/30/2012 18:22 Calibration ID: 10345

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Methylcyclohexane | 0.4926<br>0.5124 | 0.4624 | 0.4411 | 0.5115 | 0.4793 | Ave | | 0.4832 | | | | 5.8 | | 15.0 | | | |
| 1,2-Dichloropropane | 0.2922<br>0.2948 | 0.2815 | 0.2794 | 0.3073 | 0.2847 | Ave | | 0.2900 | | | | 3.6 | | 15.0 | | | |
| 1,4-Dioxane | 0.0029<br>0.0022 | 0.0037 | 0.0028 | 0.0031 | 0.0029 | Qua | -0.039 | 0.0035 | 0 | | | | | | 0.9990 | | 0.9900 |
| Dibromomethane | 0.1333<br>0.1355 | 0.1242 | 0.1259 | 0.1457 | 0.1334 | Ave | | 0.1330 | | | | 5.8 | | 15.0 | | | |
| Bromodichloromethane | 0.2548<br>0.3075 | 0.2542 | 0.2669 | 0.3073 | 0.2893 | Ave | | 0.2800 | | | | 8.8 | | 15.0 | | | |
| 2-Chloroethyl vinyl ether | 0.2607<br>0.1714 | 0.1363 | 0.1542 | 0.1697 | 0.1669 | Lin1 | 0.0311 | 0.1678 | | | | | | | 0.9970 | | 0.9900 |
| cis-1,3-Dichloropropene | 0.2988<br>0.4391 | 0.3141 | 0.3579 | 0.4157 | 0.4095 | Lin1 | -0.099 | 0.4282 | | | | | | | 0.9980 | | 0.9900 |
| 4-Methyl-2-pentanone | 0.4926<br>0.2989 | 0.2579 | 0.2723 | 0.3097 | 0.2983 | Lin1 | 0.0929 | 0.2955 | | | | | | | 0.9970 | | 0.9900 |
| Toluene | 1.7117<br>1.7823 | 1.7255 | 1.6542 | 1.8171 | 1.6762 | Ave | | 1.7278 | | | | 3.6 | | 15.0 | | | |
| trans-1,3-Dichloropropene | 0.3545<br>0.5553 | 0.3639 | 0.4327 | 0.5149 | 0.5058 | Lin1 | -0.146 | 0.5367 | | | | | | | 0.9970 | | 0.9900 |
| Ethyl methacrylate | 0.4354<br>0.5676 | 0.4127 | 0.4814 | 0.5550 | 0.5387 | Ave | | 0.4985 | | | | 13.0 | | 15.0 | | | |
| 1,1,2-Trichloroethane | 0.2863<br>0.3051 | 0.2967 | 0.2913 | 0.3185 | 0.2962 | Ave | | 0.2990 | | | | 3.8 | | 15.0 | | | |
| Tetrachloroethene | 0.3126<br>0.2837 | 0.2880 | 0.2762 | 0.2967 | 0.2765 | Ave | | 0.2889 | | | | 4.8 | | 15.0 | | | |
| 1,3-Dichloropropane | 0.6163<br>0.6261 | 0.5954 | 0.5973 | 0.6503 | 0.6033 | Ave | | 0.6148 | | | | 3.4 | | 15.0 | | | |
| 2-Hexanone | 0.4857<br>0.2905 | 0.2427 | 0.2861 | 0.3118 | 0.2948 | Lin1 | 0.0984 | 0.2909 | | | | | | | 0.9970 | | 0.9900 |
| Dibromochloromethane | 0.2093<br>0.2930 | 0.2198 | 0.2315 | 0.2737 | 0.2711 | Ave | | 0.2497 | | | | 14.0 | | 15.0 | | | |
| 1,2-Dibromoethane | 0.2622<br>0.2939 | 0.2720 | 0.2790 | 0.3067 | 0.2866 | Ave | | 0.2834 | | | | 5.6 | | 15.0 | | | |
| Chlorobenzene | 1.0785<br>1.0362 | 1.0213 | 0.9800 | 1.0834 | 1.0008 | Ave | | 1.0334 | | | 0.3000 | 4.0 | | 15.0 | | | |
| 1,1,1,2-Tetrachloroethane | 0.2730<br>0.3207 | 0.2833 | 0.2846 | 0.3335 | 0.3103 | Ave | | 0.3009 | | | | 8.0 | | 15.0 | | | |
| Ethylbenzene | 0.5571<br>0.5695 | 0.5195 | 0.5396 | 0.5925 | 0.5510 | Ave | | 0.5548 | | | | 4.5 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-14408-1 Analy Batch No.: 52548

SDG No.:

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2012 16:22 Calibration End Date: 07/30/2012 18:22 Calibration ID: 10345

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| m-Xylene & p-Xylene | 0.6762<br>0.7239 | 0.6781 | 0.6729 | 0.7566 | 0.6967 | Ave | | 0.7007 | | | | 4.8 | | 15.0 | | | |
| o-Xylene | 0.6789<br>0.7013 | 0.6480 | 0.6724 | 0.7454 | 0.6824 | Ave | | 0.6881 | | | | 4.8 | | 15.0 | | | |
| Styrene | 0.9631<br>1.1993 | 0.9561 | 1.0389 | 1.1967 | 1.1347 | Ave | | 1.0815 | | | | 10.0 | | 15.0 | | | |
| Bromoform | 0.0953<br>0.1761 | 0.1151 | 0.1331 | 0.1589 | 0.1592 | Lin1 | -0.053 | 0.1695 | | | 0.1000 | | | | 0.9960 | | 0.9900 |
| Isopropylbenzene | 1.7096<br>1.9142 | 1.7196 | 1.7241 | 1.9578 | 1.8184 | Ave | | 1.8073 | | | | 6.0 | | 15.0 | | | |
| 1,1,2,2-Tetrachloroethane | 0.7799<br>0.8094 | 0.7561 | 0.7828 | 0.8787 | 0.7929 | Ave | | 0.8000 | | | 0.3000 | 5.3 | | 15.0 | | | |
| Bromobenzene | 0.7223<br>0.7515 | 0.7379 | 0.7294 | 0.7849 | 0.7251 | Ave | | 0.7418 | | | | 3.2 | | 15.0 | | | |
| 1,2,3-Trichloropropane | 0.2491<br>0.2309 | 0.2346 | 0.2227 | 0.2455 | 0.2294 | Ave | | 0.2354 | | | | 4.3 | | 15.0 | | | |
| trans-1,4-Dichloro-2-butene | 0.1439<br>0.2361 | 0.1772 | 0.1761 | 0.2066 | 0.2092 | Lin1 | -0.059 | 0.2245 | | | | | | | 0.9940 | | 0.9900 |
| n-Propylbenzene | 0.8210<br>0.9219 | 0.8469 | 0.8208 | 0.9230 | 0.8769 | Ave | | 0.8684 | | | | 5.4 | | 15.0 | | | |
| 2-Chlorotoluene | 0.7297<br>0.7582 | 0.7449 | 0.7313 | 0.8035 | 0.7364 | Ave | | 0.7507 | | | | 3.7 | | 15.0 | | | |
| 1,3,5-Trimethylbenzene | 2.4708<br>3.0742 | 2.6945 | 2.6484 | 3.0456 | 2.8855 | Ave | | 2.8032 | | | | 8.5 | | 15.0 | | | |
| 4-Chlorotoluene | 0.7461<br>0.7909 | 0.7506 | 0.7416 | 0.8288 | 0.7713 | Ave | | 0.7715 | | | | 4.4 | | 15.0 | | | |
| tert-Butylbenzene | 2.4931<br>2.5977 | 2.2810 | 2.3682 | 2.6709 | 2.5002 | Ave | | 2.4852 | | | | 5.8 | | 15.0 | | | |
| 1,2,4-Trimethylbenzene | 2.6971<br>3.0401 | 2.6978 | 2.7496 | 3.0736 | 2.9285 | Ave | | 2.8644 | | | | 6.0 | | 15.0 | | | |
| sec-Butylbenzene | 3.3837<br>3.8010 | 3.4360 | 3.4009 | 3.8584 | 3.6580 | Ave | | 3.5897 | | | | 5.9 | | 15.0 | | | |
| 1,3-Dichlorobenzene | 1.5180<br>1.5042 | 1.4890 | 1.4510 | 1.6100 | 1.4819 | Ave | | 1.5090 | | | | 3.6 | | 15.0 | | | |
| p-Isopropyltoluene | 2.5926<br>3.1400 | 2.7397 | 2.7852 | 3.2216 | 3.0378 | Ave | | 2.9195 | | | | 8.5 | | 15.0 | | | |
| 1,4-Dichlorobenzene | 1.5500<br>1.5450 | 1.5939 | 1.5013 | 1.6238 | 1.5027 | Ave | | 1.5528 | | | | 3.1 | | 15.0 | | | |
| n-Butylbenzene | 2.7966<br>3.0515 | 2.6782 | 2.6837 | 3.0549 | 2.9238 | Ave | | 2.8648 | | | | 6.0 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-14408-1 Analy Batch No.: 52548

SDG No.:

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2012 16:22 Calibration End Date: 07/30/2012 18:22 Calibration ID: 10345

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 1,2-Dichlorobenzene | 1.4489<br>1.4055 | 1.4922 | 1.4083 | 1.5715 | 1.4178 | Ave | | 1.4574 | | | | 4.4 | | 15.0 | | | |
| 1,2-Dibromo-3-Chloropropane | 0.0716<br>0.1095 | 0.1061 | 0.1032 | 0.1288 | 0.1218 | Lin1 | -0.016 | 0.1158 | | | | | | | 0.9940 | | 0.9900 |
| 1,3,5-Trichlorobenzene | 1.3126<br>1.0256 | 1.2530 | 1.1827 | 1.3234 | 1.1545 | Ave | | 1.2086 | | | | 9.3 | | 15.0 | | | |
| 1,2,4-Trichlorobenzene | 1.1632<br>0.8882 | 1.1699 | 1.0796 | 1.2286 | 1.0670 | Ave | | 1.0994 | | | | 11.0 | | 15.0 | | | |
| Hexachlorobutadiene | 0.6156<br>0.4112 | 0.5876 | 0.5444 | 0.6118 | 0.5175 | Ave | | 0.5480 | | | | 14.0 | | 15.0 | | | |
| Naphthalene | 2.3007<br>2.0375 | 2.4094 | 2.5005 | 2.9061 | 2.4442 | Ave | | 2.4331 | | | | 12.0 | | 15.0 | | | |
| 1,2,3-Trichlorobenzene | 1.0979<br>0.7028 | 1.0852 | 1.0060 | 1.1221 | 0.8987 | Qua | -0.002 | 1.1444 | -0.011 | | | | | | 0.9980 | | 0.9900 |
| Dibromofluoromethane (Surr) | 0.2015<br>0.1979 | 0.1798 | 0.1887 | 0.2105 | 0.1942 | Ave | | 0.1954 | | | | 5.4 | | 15.0 | | | |
| 1,2-Dichloroethane-d4 (Surr) | 0.3198<br>0.2946 | 0.2977 | 0.2897 | 0.3154 | 0.2849 | Ave | | 0.3003 | | | | 4.7 | | 15.0 | | | |
| Toluene-d8 (Surr) | 1.4995<br>1.4544 | 1.3871 | 1.3772 | 1.5160 | 1.4038 | Ave | | 1.4397 | | | | 4.1 | | 15.0 | | | |
| 4-Bromofluorobenzene (Surr) | 0.5849<br>0.5190 | 0.5175 | 0.5198 | 0.5463 | 0.5154 | Ave | | 0.5338 | | | | 5.2 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-14408-1

SDG No.:

Lab File ID: BFB013.D BFB Injection Date: 07/30/2012

Instrument ID: A3UX17 BFB Injection Time: 15:49

Analysis Batch No.: 52548

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 50 | 15.0 - 40.0 % of mass 95 | 20.4 | |
| 75 | 30.0 - 60.0 % of mass 95 | 49.4 | |
| 95 | Base Peak, 100% relative abundance | 100.0 | |
| 96 | 5.0 - 9.0 % of mass 95 | 6.3 | |
| 173 | Less than 2.0 % of mass 174 | 0.6 | (1.0)1 |
| 174 | 50.0 - 120.00 % of mass 95 | 68.2 | |
| 175 | 5.0 - 9.0 % of mass 174 | 4.9 | (7.2)1 |
| 176 | 95.0 - 101.0 % of mass 174 | 67.3 | (98.7)1 |
| 177 | 5.0 - 9.0 % of mass 176 | 4.1 | (6.1)2 |

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | STD8260 240-52548/2 | UXR0216.D | 07/30/2012 | 16:22 |
| | STD8260 240-52548/3 | UXR0217.D | 07/30/2012 | 16:46 |
| | STD8260 240-52548/4 | UXR0218.D | 07/30/2012 | 17:10 |
| | STD8260 240-52548/5 | UXR0219.D | 07/30/2012 | 17:34 |
| | STD8260 240-52548/6 | UXR0220.D | 07/30/2012 | 17:58 |
| | STD8260 240-52548/7 | UXR0221.D | 07/30/2012 | 18:22 |
| | ICV 240-52548/8 | UXR0222.D | 07/30/2012 | 18:46 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-14408-1 Analy Batch No.: 52548

SDG No.:

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2012 16:22 Calibration End Date: 07/30/2012 18:22 Calibration ID: 10345

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD8260 240-52548/7 | UXR0221.D |
| Level 2 | STD8260 240-52548/6 | UXR0220.D |
| Level 3 | STD8260 240-52548/5 | UXR0219.D |
| Level 4 | STD8260 240-52548/4 | UXR0218.D |
| Level 5 | STD8260 240-52548/3 | UXR0217.D |
| Level 6 | STD8260 240-52548/2 | UXR0216.D |

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Dichlorodifluoromethane | FB | Ave | 21058<br>1872641 | 40699 | 208003 | 429915 | 881092 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| Chloromethane | FB | Ave | 37936<br>2885180 | 72617 | 346009 | 688012 | 1398318 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| Vinyl chloride | FB | Ave | 30068<br>2499167 | 59340 | 301717 | 588291 | 1212110 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| Bromomethane | FB | Lin1 | 12518<br>625664 | 21272 | 83457 | 178404 | 369132 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| Chloroethane | FB | Ave | 18324<br>1144512 | 36506 | 146827 | 298755 | 622959 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| Trichlorofluoromethane | FB | Ave | 20261<br>1631042 | 39915 | 199258 | 400505 | 830262 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| Acrolein | FB | Lin1 | 56460<br>2654131 | 58292 | 326132 | 672049 | 1318334 | 5.00<br>400 | 10.0 | 50.0 | 100 | 200 |
| 1,1-Dichloroethene | FB | Ave | 18698<br>1525863 | 37816 | 184788 | 378667 | 725286 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | FB | Ave | 12993<br>1040556 | 24621 | 123717 | 257420 | 504990 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| Acetone | FB | Lin1 | 49773<br>1240858 | 53713 | 178001 | 345768 | 631520 | 1.00<br>80.0 | 2.00 | 10.0 | 20.0 | 40.0 |
| Iodomethane | FB | Ave | 26865<br>2004647 | 52936 | 254670 | 532980 | 1025743 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| Carbon disulfide | FB | Ave | 64392<br>5623587 | 124182 | 627236 | 1338252 | 2631627 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| Acetonitrile | FB | Lin1 | 73964<br>2761254 | 66737 | 354269 | 716455 | 1393237 | 5.00<br>400 | 10.0 | 50.0 | 100 | 200 |
| Methyl acetate | FB | Lin1 | 74347<br>3698937 | 91046 | 458518 | 936615 | 1815170 | 1.00<br>80.0 | 2.00 | 10.0 | 20.0 | 40.0 |
| Methylene Chloride | FB | Lin1 | 94257<br>1885972 | 117310 | 287666 | 529019 | 947840 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| tert-Butyl alcohol | FB | Ave | 37136<br>3156745 | 78131 | 387353 | 805185 | 1590154 | 10.0<br>800 | 20.0 | 100 | 200 | 400 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-14408-1 Analy Batch No.: 52548

SDG No.:

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2012 16:22 Calibration End Date: 07/30/2012 18:22 Calibration ID: 10345

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Acrylonitrile | FB | Lin1 | 37231<br>1678240 | 36998 | 207426 | 429264 | 831980 | 1.00<br>80.0 | 2.00 | 10.0 | 20.0 | 40.0 |
| Methyl tert-butyl ether | FB | Ave | 70779<br>5765990 | 140267 | 695472 | 1432013 | 2761773 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| trans-1,2-Dichloroethene | FB | Ave | 22586<br>1679760 | 41252 | 208940 | 426563 | 817890 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| Hexane | FB | Ave | 6846<br>501783 | 12103 | 55507 | 119160 | 234927 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| 1,1-Dichloroethane | FB | Ave | 45273<br>3475549 | 87310 | 423534 | 857483 | 1663912 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| Vinyl acetate | FB | Lin1 | 5545<br>328575 | 6575 | 35677 | 73010 | 158335 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| 2,2-Dichloropropane | FB | Ave | 19832<br>1649887 | 36731 | 194933 | 411171 | 805089 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| cis-1,2-Dichloroethene | FB | Ave | 25062<br>1838668 | 45865 | 231642 | 469236 | 904091 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| 2-Butanone | FB | Lin1 | 49561<br>1952052 | 48366 | 249469 | 491887 | 967869 | 1.00<br>80.0 | 2.00 | 10.0 | 20.0 | 40.0 |
| Bromochloromethane | FB | Ave | 10386<br>789697 | 20263 | 95837 | 199374 | 385246 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| Tetrahydrofuran | FB | Ave | 11096<br>659122 | 20774 | 82399 | 168807 | 322173 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| Chloroform | FB | Ave | 37404<br>2983549 | 72980 | 365605 | 738267 | 1442283 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| 1,1,1-Trichloroethane | FB | Ave | 24583<br>2068162 | 49301 | 251787 | 518983 | 1019280 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| Cyclohexane | FB | Ave | 49362<br>4029780 | 92968 | 451365 | 941984 | 1886272 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| 1,1-Dichloropropene | FB | Ave | 33210<br>2580801 | 63372 | 310206 | 631723 | 1233893 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| Carbon tetrachloride | FB | Ave | 18622<br>1782604 | 38694 | 195462 | 422530 | 839161 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| Benzene | FB | Ave | 108361<br>8030871 | 205298 | 962632 | 1963556 | 3820479 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| 1,2-Dichloroethane | FB | Ave | 31730<br>2485698 | 63383 | 308649 | 623518 | 1191101 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| Trichloroethene | FB | Ave | 22220<br>1673445 | 41394 | 207883 | 414611 | 806605 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| Methylcyclohexane | FB | Ave | 42823<br>3500566 | 79837 | 385380 | 820339 | 1625314 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| 1,2-Dichloropropane | FB | Ave | 25399<br>2014190 | 48611 | 244143 | 492824 | 965491 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-14408-1 Analy Batch No.: 52548

SDG No.:

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2012 16:22 Calibration End Date: 07/30/2012 18:22 Calibration ID: 10345

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| 1,4-Dioxane | FB | Qua | 12669<br>744859 | 32306 | 123686 | 247969 | 489008 | 25.0<br>2000 | 50.0 | 250 | 500 | 1000 |
| Dibromomethane | FB | Ave | 11586<br>925886 | 21445 | 110009 | 233637 | 452393 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| Bromodichloromethane | FB | Ave | 22151<br>2100697 | 43900 | 233178 | 492907 | 981136 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| 2-Chloroethyl vinyl ether | FB | Lin1 | 45318<br>2341929 | 47088 | 269476 | 544467 | 1132146 | 1.00<br>80.0 | 2.00 | 10.0 | 20.0 | 40.0 |
| cis-1,3-Dichloropropene | FB | Lin1 | 25974<br>2999483 | 54239 | 312710 | 666712 | 1388601 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| 4-Methyl-2-pentanone | FB | Lin1 | 85644<br>4083250 | 89066 | 475781 | 993462 | 2023005 | 1.00<br>80.0 | 2.00 | 10.0 | 20.0 | 40.0 |
| Toluene | CBZ | Ave | 96207<br>8085759 | 196413 | 951268 | 1921958 | 3788821 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| trans-1,3-Dichloropropene | CBZ | Lin1 | 19926<br>2519266 | 41420 | 248798 | 544654 | 1143264 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| Ethyl methacrylate | CBZ | Ave | 24474<br>2574875 | 46975 | 276839 | 587013 | 1217655 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| 1,1,2-Trichloroethane | CBZ | Ave | 16094<br>1384232 | 33776 | 167534 | 336855 | 669573 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| Tetrachloroethene | CBZ | Ave | 17569<br>1287179 | 32779 | 158805 | 313798 | 625074 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| 1,3-Dichloropropane | CBZ | Ave | 34639<br>2840471 | 67767 | 343454 | 687771 | 1363568 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| 2-Hexanone | CBZ | Lin1 | 54601<br>2636087 | 55253 | 328992 | 659608 | 1332621 | 1.00<br>80.0 | 2.00 | 10.0 | 20.0 | 40.0 |
| Dibromochloromethane | CBZ | Ave | 11765<br>1329341 | 25014 | 133111 | 289486 | 612814 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| 1,2-Dibromoethane | CBZ | Ave | 14737<br>1333384 | 30956 | 160412 | 324439 | 647841 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| Chlorobenzene | CBZ | Ave | 60618<br>4700774 | 116256 | 563529 | 1145960 | 2262186 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| 1,1,1,2-Tetrachloroethane | CBZ | Ave | 15342<br>1455062 | 32243 | 163630 | 352747 | 701327 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| Ethylbenzene | CBZ | Ave | 31312<br>2583623 | 59128 | 310285 | 626658 | 1245342 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| m-Xylene & p-Xylene | CBZ | Ave | 76016<br>6568663 | 154368 | 773871 | 1600512 | 3149577 | 1.00<br>80.0 | 2.00 | 10.0 | 20.0 | 40.0 |
| o-Xylene | CBZ | Ave | 38159<br>3181633 | 73762 | 386659 | 788412 | 1542434 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| Styrene | CBZ | Ave | 54133<br>5441012 | 108826 | 597399 | 1265757 | 2564787 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-14408-1 Analy Batch No.: 52548

SDG No.:

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2012 16:22 Calibration End Date: 07/30/2012 18:22 Calibration ID: 10345

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Bromoform | CBZ | Lin1 | 5358<br>798991 | 13097 | 76512 | 168026 | 359800 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| Isopropylbenzene | CBZ | Ave | 96092<br>8684238 | 195741 | 991418 | 2070782 | 4110135 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| 1,1,2,2-Tetrachloroethane | DCB | Ave | 24022<br>1926872 | 46212 | 243803 | 505797 | 953611 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| Bromobenzene | DCB | Ave | 22248<br>1789008 | 45097 | 227191 | 451826 | 872072 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| 1,2,3-Trichloropropane | DCB | Ave | 7674<br>549675 | 14337 | 69373 | 141291 | 275928 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| trans-1,4-Dichloro-2-butene | DCB | Lin1 | 4433<br>562093 | 10830 | 54853 | 118904 | 251658 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| n-Propylbenzene | DCB | Ave | 25288<br>2194817 | 51760 | 255666 | 531307 | 1054672 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| 2-Chlorotoluene | DCB | Ave | 22476<br>1805108 | 45528 | 227777 | 462505 | 885709 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| 1,3,5-Trimethylbenzene | DCB | Ave | 76105<br>7318929 | 164678 | 824892 | 1753118 | 3470407 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| 4-Chlorotoluene | DCB | Ave | 22980<br>1882973 | 45871 | 230995 | 477077 | 927657 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| tert-Butylbenzene | DCB | Ave | 76791<br>6184354 | 139403 | 737611 | 1537419 | 3006986 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| 1,2,4-Trimethylbenzene | DCB | Ave | 83076<br>7237779 | 164878 | 856408 | 1769207 | 3522065 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| sec-Butylbenzene | DCB | Ave | 104224<br>9049152 | 209994 | 1059260 | 2220954 | 4399540 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| 1,3-Dichlorobenzene | DCB | Ave | 46758<br>3581143 | 91000 | 451932 | 926743 | 1782260 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| p-Isopropyltoluene | DCB | Ave | 79858<br>7475452 | 167440 | 867500 | 1854407 | 3653525 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| 1,4-Dichlorobenzene | DCB | Ave | 47744<br>3678255 | 97415 | 467607 | 934690 | 1807300 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| n-Butylbenzene | DCB | Ave | 86139<br>7264816 | 163679 | 835884 | 1758481 | 3516496 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| 1,2-Dichlorobenzene | DCB | Ave | 44629<br>3346021 | 91199 | 438638 | 904615 | 1705224 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| 1,2-Dibromo-3-Chloropropane | DCB | Lin1 | 2204<br>260736 | 6485 | 32128 | 74165 | 146536 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| 1,3,5-Trichlorobenzene | DCB | Ave | 40431<br>2441758 | 76579 | 368371 | 761767 | 1388519 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| 1,2,4-Trichlorobenzene | DCB | Ave | 35830<br>2114502 | 71499 | 336265 | 707204 | 1283296 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-14408-1 Analy Batch No.: 52548

SDG No.:

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2012 16:22 Calibration End Date: 07/30/2012 18:22 Calibration ID: 10345

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Hexachlorobutadiene | DCB | Ave | 18962<br>978879 | 35914 | 169574 | 352152 | 622410 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| Naphthalene | DCB | Ave | 70865<br>4850757 | 147255 | 778815 | 1672838 | 2939683 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| 1,2,3-Trichlorobenzene | DCB | Qua | 33818<br>1673193 | 66325 | 313324 | 645920 | 1080912 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| Dibromofluoromethane (Surr) | FB | Ave | 17520<br>1351829 | 31047 | 164848 | 337558 | 658505 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| 1,2-Dichloroethane-d4 (Surr) | FB | Ave | 27797<br>2012809 | 51402 | 253121 | 505778 | 965921 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| Toluene-d8 (Surr) | CBZ | Ave | 84284<br>6598465 | 157884 | 791931 | 1603513 | 3173035 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |
| 4-Bromofluorobenzene (Surr) | CBZ | Ave | 32878<br>2354693 | 58907 | 298889 | 577813 | 1164948 | 0.500<br>40.0 | 1.00 | 5.00 | 10.0 | 20.0 |

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Qua = Quadratic ISTD

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-14408-1

SDG No.:

Lab Sample ID: ICV 240-52548/8 Calibration Date: 07/30/2012 18:46

Instrument ID: A3UX17 Calib Start Date: 07/19/2012 14:58

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/19/2012 16:58

Lab File ID: UXR0222.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Ethyl ether | Ave | 0.3267 | 0.2838 | | 8.69 | 10.0 | -13.1 | 50.0 |
| Diisopropyl ether | Ave | 0.2752 | 0.2513 | | 9.13 | 10.0 | -8.7 | 50.0 |
| Isobutyl alcohol | Ave | 0.0180 | 0.0129 | | 359 | 500 | -28.2 | 50.0 |
| Cyclohexanone | Ave | 0.0302 | 0.0243 | | 161 | 200 | -19.6 | 50.0 |
| 1,2,3-Trimethylbenzene | Ave | 3.337 | 2.998 | | 8.98 | 10.0 | -10.2 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-14408-1

SDG No.:

Lab Sample ID: ICV 240-52548/8  Calibration Date: 07/30/2012 18:46

Instrument ID: A3UX17  Calib Start Date: 07/30/2012 16:22

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 07/30/2012 18:22

Lab File ID: UXR0222.D  Conc. Units: ug/L  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | Ave | 0.2530 | 0.2440 | | 9.64 | 10.0 | -3.6 | 50.0 |
| Chloromethane | Ave | 0.4194 | 0.4212 | 0.1000 | 10.0 | 10.0 | 0.4 | 50.0 |
| Vinyl chloride | Ave | 0.3542 | 0.3647 | | 10.3 | 10.0 | 3.0 | 20.0 |
| Bromomethane | Lin1 | | 0.1058 | | 10.6 | 10.0 | 5.7 | 50.0 |
| Chloroethane | Ave | 0.1880 | 0.1845 | | 9.82 | 10.0 | -1.8 | 50.0 |
| Trichlorofluoromethane | Ave | 0.2376 | 0.2696 | | 11.3 | 10.0 | 13.5 | 50.0 |
| Acrolein | Lin1 | | 0.0451 | | 33.2 | 30.0 | 10.5 | 50.0 |
| 1,1-Dichloroethene | Ave | 0.2198 | 0.2370 | | 10.8 | 10.0 | 7.8 | 20.0 |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | Ave | 0.1492 | 0.1712 | | 11.5 | 10.0 | 14.7 | 50.0 |
| Acetone | Lin1 | | 0.0898 | | 18.1 | 20.0 | -9.6 | 50.0 |
| Iodomethane | Ave | 0.3059 | 0.3275 | | 10.7 | 10.0 | 7.1 | 50.0 |
| Carbon disulfide | Ave | 0.7686 | 0.7789 | | 10.1 | 10.0 | 1.3 | 50.0 |
| Acetonitrile | Lin1 | | 0.0400 | | 26.2 | 30.0 | -12.6 | 50.0 |
| Methyl acetate | Lin1 | | 0.2816 | | 10.1 | 10.0 | 0.9 | 50.0 |
| Methylene Chloride | Lin1 | | 0.3114 | | 10.2 | 10.0 | 1.7 | 50.0 |
| tert-Butyl alcohol | Ave | 0.0230 | 0.0222 | | 193 | 200 | -3.4 | 50.0 |
| Acrylonitrile | Lin1 | | 0.1194 | | 28.8 | 30.0 | -3.8 | 50.0 |
| Methyl tert-butyl ether | Ave | 0.8290 | 0.8411 | | 10.1 | 10.0 | 1.5 | 50.0 |
| trans-1,2-Dichloroethene | Ave | 0.2485 | 0.2600 | | 10.5 | 10.0 | 4.6 | 50.0 |
| Hexane | Ave | 0.0716 | 0.0767 | | 10.7 | 10.0 | 7.1 | 20.0 |
| 1,1-Dichloroethane | Ave | 0.5076 | 0.5305 | 0.1000 | 10.5 | 10.0 | 4.5 | 50.0 |
| Vinyl acetate | Lin1 | | 0.0442 | | 9.43 | 10.0 | -5.7 | 50.0 |
| 2,2-Dichloropropane | Ave | 0.2332 | 0.2350 | | 10.1 | 10.0 | 0.8 | 50.0 |
| cis-1,2-Dichloroethene | Ave | 0.2746 | 0.2833 | | 10.3 | 10.0 | 3.2 | 50.0 |
| 2-Butanone | Lin1 | | 0.1337 | | 18.2 | 20.0 | -8.8 | 50.0 |
| Bromochloromethane | Ave | 0.1167 | 0.1180 | | 10.1 | 10.0 | 1.1 | 50.0 |
| Tetrahydrofuran | Ave | 0.1065 | 0.0966 | | 9.07 | 10.0 | -9.3 | 50.0 |
| Chloroform | Ave | 0.4323 | 0.4407 | | 10.2 | 10.0 | 1.9 | 20.0 |
| 1,1,1-Trichloroethane | Ave | 0.2972 | 0.3107 | | 10.5 | 10.0 | 4.5 | 50.0 |
| Cyclohexane | Ave | 0.5594 | 0.5589 | | 9.99 | 10.0 | -0.1 | 50.0 |
| 1,1-Dichloropropene | Ave | 0.3733 | 0.3795 | | 10.2 | 10.0 | 1.7 | 50.0 |
| Carbon tetrachloride | Ave | 0.2390 | 0.2561 | | 10.7 | 10.0 | 7.1 | 50.0 |
| Benzene | Ave | 1.177 | 1.187 | | 10.1 | 10.0 | 0.9 | 50.0 |
| 1,2-Dichloroethane | Ave | 0.3649 | 0.3721 | | 10.2 | 10.0 | 2.0 | 50.0 |
| Trichloroethene | Ave | 0.2458 | 0.2501 | | 10.2 | 10.0 | 1.8 | 50.0 |
| Methylcyclohexane | Ave | 0.4832 | 0.4842 | | 10.0 | 10.0 | 0.2 | 50.0 |
| 1,2-Dichloropropane | Ave | 0.2900 | 0.2986 | | 10.3 | 10.0 | 3.0 | 20.0 |
| Dibromomethane | Ave | 0.1330 | 0.1395 | | 10.5 | 10.0 | 4.9 | 50.0 |
| Bromodichloromethane | Ave | 0.2800 | 0.2887 | | 10.3 | 10.0 | 3.1 | 50.0 |
| 2-Chloroethyl vinyl ether | Lin1 | | 0.1582 | | 9.24 | 10.0 | -7.6 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-14408-1

SDG No.:

Lab Sample ID: ICV 240-52548/8  Calibration Date: 07/30/2012 18:46

Instrument ID: A3UX17  Calib Start Date: 07/30/2012 16:22

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 07/30/2012 18:22

Lab File ID: UXR0222.D  Conc. Units: ug/L  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | Lin1 | | 0.3715 | | 8.91 | 10.0 | -10.9 | 50.0 |
| 4-Methyl-2-pentanone | Lin1 | | 0.2801 | | 18.6 | 20.0 | -6.8 | 50.0 |
| Toluene | Ave | 1.728 | 1.684 | | 9.75 | 10.0 | -2.5 | 20.0 |
| trans-1,3-Dichloropropene | Lin1 | | 0.4602 | | 8.85 | 10.0 | -11.5 | 50.0 |
| 1,1,2-Trichloroethane | Ave | 0.2990 | 0.3107 | | 10.4 | 10.0 | 3.9 | 50.0 |
| Tetrachloroethene | Ave | 0.2889 | 0.2815 | | 9.74 | 10.0 | -2.6 | 50.0 |
| 1,3-Dichloropropane | Ave | 0.6148 | 0.6149 | | 10.0 | 10.0 | 0.0 | 50.0 |
| 2-Hexanone | Lin1 | | 0.2684 | | 18.1 | 20.0 | -9.4 | 50.0 |
| Dibromochloromethane | Ave | 0.2497 | 0.2463 | | 9.86 | 10.0 | -1.4 | 50.0 |
| 1,2-Dibromoethane | Ave | 0.2834 | 0.2847 | | 10.0 | 10.0 | 0.5 | 50.0 |
| Chlorobenzene | Ave | 1.033 | 1.019 | 0.3000 | 9.86 | 10.0 | -1.4 | 50.0 |
| 1,1,1,2-Tetrachloroethane | Ave | 0.3009 | 0.2997 | | 9.96 | 10.0 | -0.4 | 50.0 |
| Ethylbenzene | Ave | 0.5548 | 0.5577 | | 10.1 | 10.0 | 0.5 | 20.0 |
| m-Xylene & p-Xylene | Ave | 0.7007 | 0.7055 | | 20.1 | 20.0 | 0.7 | 50.0 |
| o-Xylene | Ave | 0.6881 | 0.7015 | | 10.2 | 10.0 | 1.9 | 50.0 |
| Styrene | Ave | 1.081 | 1.115 | | 10.3 | 10.0 | 3.1 | 50.0 |
| Bromoform | Lin1 | | 0.1406 | 0.1000 | 8.61 | 10.0 | -13.9 | 50.0 |
| Isopropylbenzene | Ave | 1.807 | 1.819 | | 10.1 | 10.0 | 0.6 | 50.0 |
| 1,1,2,2-Tetrachloroethane | Ave | 0.8000 | 0.7867 | 0.3000 | 9.83 | 10.0 | -1.7 | 50.0 |
| Bromobenzene | Ave | 0.7418 | 0.7422 | | 10.0 | 10.0 | 0.0 | 50.0 |
| 1,2,3-Trichloropropane | Ave | 0.2354 | 0.2306 | | 9.80 | 10.0 | -2.0 | 50.0 |
| trans-1,4-Dichloro-2-butene | Lin1 | | 0.1937 | | 17.5 | 20.0 | -12.4 | 50.0 |
| n-Propylbenzene | Ave | 0.8684 | 0.8907 | | 10.3 | 10.0 | 2.6 | 50.0 |
| 2-Chlorotoluene | Ave | 0.7507 | 0.7484 | | 9.97 | 10.0 | -0.3 | 50.0 |
| 1,3,5-Trimethylbenzene | Ave | 2.803 | 2.876 | | 10.3 | 10.0 | 2.6 | 50.0 |
| 4-Chlorotoluene | Ave | 0.7715 | 0.7672 | | 9.94 | 10.0 | -0.6 | 50.0 |
| tert-Butylbenzene | Ave | 2.485 | 2.481 | | 9.98 | 10.0 | -0.2 | 50.0 |
| 1,2,4-Trimethylbenzene | Ave | 2.864 | 2.931 | | 10.2 | 10.0 | 2.3 | 50.0 |
| sec-Butylbenzene | Ave | 3.590 | 3.603 | | 10.0 | 10.0 | 0.4 | 50.0 |
| 1,3-Dichlorobenzene | Ave | 1.509 | 1.516 | | 10.0 | 10.0 | 0.5 | 50.0 |
| p-Isopropyltoluene | Ave | 2.919 | 3.102 | | 10.6 | 10.0 | 6.2 | 50.0 |
| 1,4-Dichlorobenzene | Ave | 1.553 | 1.528 | | 9.84 | 10.0 | -1.6 | 50.0 |
| n-Butylbenzene | Ave | 2.865 | 2.940 | | 10.3 | 10.0 | 2.6 | 50.0 |
| 1,2-Dichlorobenzene | Ave | 1.457 | 1.452 | | 9.96 | 10.0 | -0.4 | 50.0 |
| 1,2-Dibromo-3-Chloropropane | Lin1 | | 0.1102 | | 9.65 | 10.0 | -3.5 | 50.0 |
| 1,2,4-Trichlorobenzene | Ave | 1.099 | 1.094 | | 9.95 | 10.0 | -0.5 | 50.0 |
| Hexachlorobutadiene | Ave | 0.5480 | 0.5417 | | 9.88 | 10.0 | -1.2 | 50.0 |
| Naphthalene | Ave | 2.433 | 2.539 | | 10.4 | 10.0 | 4.3 | 50.0 |
| 1,2,3-Trichlorobenzene | Qua | | 1.027 | | 9.93 | 10.0 | -0.7 | 50.0 |
| Dibromofluoromethane (Surr) | Ave | 0.1954 | 0.1899 | | 8.66 | 8.91 | -2.8 | 50.0 |
| 1,2-Dichloroethane-d4 (Surr) | Ave | 0.3003 | 0.2822 | | 8.37 | 8.91 | -6.1 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-14408-1

SDG No.:

Lab Sample ID: ICV 240-52548/8  Calibration Date: 07/30/2012 18:46

Instrument ID: A3UX17  Calib Start Date: 07/30/2012 16:22

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 07/30/2012 18:22

Lab File ID: UXR0222.D  Conc. Units: ug/L  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Toluene-d8 (Surr) | Ave | 1.440 | 1.345 | | 8.32 | 8.91 | -6.6 | 50.0 |
| 4-Bromofluorobenzene (Surr) | Ave | 0.5338 | 0.4962 | | 8.28 | 8.91 | -7.0 | 50.0 |

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-14408-1

SDG No.:

Lab File ID: BFB048.D BFB Injection Date: 08/31/2012

Instrument ID: A3UX17 BFB Injection Time: 21:12

Analysis Batch No.: 56479

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 50 | 15.0 - 40.0 % of mass 95 | 17.3 | |
| 75 | 30.0 - 60.0 % of mass 95 | 47.1 | |
| 95 | Base Peak, 100% relative abundance | 100.0 | |
| 96 | 5.0 - 9.0 % of mass 95 | 7.1 | |
| 173 | Less than 2.0 % of mass 174 | 0.4 | (0.6)1 |
| 174 | 50.0 - 120.00 % of mass 95 | 76.8 | |
| 175 | 5.0 - 9.0 % of mass 174 | 5.2 | (6.8)1 |
| 176 | 95.0 - 101.0 % of mass 174 | 74.0 | (96.4)1 |
| 177 | 5.0 - 9.0 % of mass 176 | 4.6 | (6.3)2 |

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | CCVIS 240-56479/2 | UXR940.D | 08/31/2012 | 21:33 |
| | CCV 240-56479/3 | UXR941.D | 08/31/2012 | 21:56 |
| | LCS 240-56479/4 | UXR942.D | 08/31/2012 | 22:18 |
| | MB 240-56479/5 | UXR943.D | 08/31/2012 | 22:40 |
| TB-082112 | 240-14408-1 | UXR944.D | 08/31/2012 | 23:02 |
| MT-MW09S-082112 | 240-14408-2 | UXR945.D | 08/31/2012 | 23:25 |
| MT-MW11S-082112 | 240-14408-3 | UXR946.D | 08/31/2012 | 23:47 |
| MT-MW12S-082112 | 240-14408-4 | UXR947.D | 09/01/2012 | 00:09 |
| | 240-14497-E-10 MS | UXR964.D | 09/01/2012 | 06:29 |
| | 240-14497-F-10 MSD | UXR965.D | 09/01/2012 | 06:51 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-14408-1

SDG No.:

Lab Sample ID: CCVIS 240-56479/2  Calibration Date: 08/31/2012 21:33

Instrument ID: A3UX17  Calib Start Date: 07/30/2012 16:22

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 07/30/2012 18:22

Lab File ID: UXR940.D  Conc. Units: ug/L  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | Ave | 0.2530 | 0.2379 | | 9.40 | 10.0 | -6.0 | 50.0 |
| Chloromethane | Ave | 0.4194 | 0.3558 | 0.1000 | 8.48 | 10.0 | -15.2 | 50.0 |
| Vinyl chloride | Ave | 0.3542 | 0.3592 | | 10.1 | 10.0 | 1.4 | 20.0 |
| Bromomethane | Lin1 | | 0.1313 | | 13.2 | 10.0 | 31.8 | 50.0 |
| Chloroethane | Ave | 0.1880 | 0.1430 | | 7.61 | 10.0 | -23.9 | 50.0 |
| Trichlorofluoromethane | Ave | 0.2376 | 0.3063 | | 12.9 | 10.0 | 28.9 | 50.0 |
| Acrolein | Lin1 | | 0.0263 | | 66.1 | 100 | -33.9 | 50.0 |
| 1,1-Dichloroethene | Ave | 0.2198 | 0.2450 | | 11.1 | 10.0 | 11.4 | 20.0 |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | Ave | 0.1492 | 0.1809 | | 12.1 | 10.0 | 21.2 | 50.0 |
| Acetone | Lin1 | | 0.0812 | | 16.2 | 20.0 | -19.1 | 50.0 |
| Iodomethane | Ave | 0.3059 | 0.3909 | | 12.8 | 10.0 | 27.8 | 50.0 |
| Carbon disulfide | Ave | 0.7686 | 0.8304 | | 10.8 | 10.0 | 8.0 | 50.0 |
| Acetonitrile | Lin1 | | 0.0367 | | 87.6 | 100 | -12.4 | 50.0 |
| Methyl acetate | Lin1 | | 0.2229 | | 16.2 | 20.0 | -19.1 | 50.0 |
| Methylene Chloride | Lin1 | | 0.3402 | | 11.3 | 10.0 | 12.5 | 50.0 |
| tert-Butyl alcohol | Ave | 0.0230 | 0.0176 | | 153 | 200 | -23.6 | 50.0 |
| Acrylonitrile | Lin1 | | 0.1080 | | 17.2 | 20.0 | -13.8 | 50.0 |
| Methyl tert-butyl ether | Ave | 0.8290 | 0.7856 | | 9.48 | 10.0 | -5.2 | 50.0 |
| trans-1,2-Dichloroethene | Ave | 0.2485 | 0.2878 | | 11.6 | 10.0 | 15.8 | 50.0 |
| Hexane | Ave | 0.0716 | 0.0709 | | 9.90 | 10.0 | -1.0 | 20.0 |
| 1,1-Dichloroethane | Ave | 0.5076 | 0.5102 | 0.1000 | 10.1 | 10.0 | 0.5 | 50.0 |
| Vinyl acetate | Lin1 | | 0.0316 | | 6.74 | 10.0 | -32.6 | 50.0 |
| 2,2-Dichloropropane | Ave | 0.2332 | 0.2108 | | 9.04 | 10.0 | -9.6 | 50.0 |
| cis-1,2-Dichloroethene | Ave | 0.2746 | 0.3092 | | 11.3 | 10.0 | 12.6 | 50.0 |
| 2-Butanone | Lin1 | | 0.1113 | | 15.1 | 20.0 | -24.6 | 50.0 |
| Bromochloromethane | Ave | 0.1167 | 0.1399 | | 12.0 | 10.0 | 19.9 | 50.0 |
| Tetrahydrofuran | Ave | 0.1065 | 0.0739 | | 6.94 | 10.0 | -30.6 | 50.0 |
| Chloroform | Ave | 0.4323 | 0.4806 | | 11.1 | 10.0 | 11.2 | 20.0 |
| 1,1,1-Trichloroethane | Ave | 0.2972 | 0.3392 | | 11.4 | 10.0 | 14.1 | 50.0 |
| Cyclohexane | Ave | 0.5594 | 0.4890 | | 8.74 | 10.0 | -12.6 | 50.0 |
| 1,1-Dichloropropene | Ave | 0.3733 | 0.3697 | | 9.90 | 10.0 | -1.0 | 50.0 |
| Carbon tetrachloride | Ave | 0.2390 | 0.2820 | | 11.8 | 10.0 | 18.0 | 50.0 |
| Benzene | Ave | 1.177 | 1.207 | | 10.3 | 10.0 | 2.5 | 50.0 |
| 1,2-Dichloroethane | Ave | 0.3649 | 0.3733 | | 10.2 | 10.0 | 2.3 | 50.0 |
| Trichloroethene | Ave | 0.2458 | 0.2667 | | 10.9 | 10.0 | 8.5 | 50.0 |
| Methylcyclohexane | Ave | 0.4832 | 0.4863 | | 10.1 | 10.0 | 0.6 | 50.0 |
| 1,2-Dichloropropane | Ave | 0.2900 | 0.2810 | | 9.69 | 10.0 | -3.1 | 20.0 |
| 1,4-Dioxane | Qua | | 0.0028 | | 451 | 500 | -9.9 | 50.0 |
| Dibromomethane | Ave | 0.1330 | 0.1516 | | 11.4 | 10.0 | 14.0 | 50.0 |
| Bromodichloromethane | Ave | 0.2800 | 0.2973 | | 10.6 | 10.0 | 6.2 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-14408-1

SDG No.:

Lab Sample ID: CCVIS 240-56479/2  Calibration Date: 08/31/2012 21:33

Instrument ID: A3UX17  Calib Start Date: 07/30/2012 16:22

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 07/30/2012 18:22

Lab File ID: UXR940.D  Conc. Units: ug/L  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 2-Chloroethyl vinyl ether | Lin1 | | 0.1516 | | 17.9 | 20.0 | -10.6 | 50.0 |
| cis-1,3-Dichloropropene | Lin1 | | 0.3624 | | 8.69 | 10.0 | -13.1 | 50.0 |
| 4-Methyl-2-pentanone | Lin1 | | 0.2263 | | 15.0 | 20.0 | -25.0 | 50.0 |
| Toluene | Ave | 1.728 | 1.632 | | 9.44 | 10.0 | -5.6 | 20.0 |
| trans-1,3-Dichloropropene | Lin1 | | 0.3746 | | 7.25 | 10.0 | -27.5 | 50.0 |
| Ethyl methacrylate | Ave | 0.4985 | 0.4406 | | 8.84 | 10.0 | -11.6 | 50.0 |
| 1,1,2-Trichloroethane | Ave | 0.2990 | 0.3035 | | 10.1 | 10.0 | 1.5 | 50.0 |
| Tetrachloroethene | Ave | 0.2889 | 0.2789 | | 9.65 | 10.0 | -3.5 | 50.0 |
| 1,3-Dichloropropane | Ave | 0.6148 | 0.5762 | | 9.37 | 10.0 | -6.3 | 50.0 |
| 2-Hexanone | Lin1 | | 0.1968 | | 13.2 | 20.0 | -34.0 | 50.0 |
| Dibromochloromethane | Ave | 0.2497 | 0.2519 | | 10.1 | 10.0 | 0.9 | 50.0 |
| 1,2-Dibromoethane | Ave | 0.2834 | 0.2842 | | 10.0 | 10.0 | 0.3 | 50.0 |
| Chlorobenzene | Ave | 1.033 | 1.004 | 0.3000 | 9.72 | 10.0 | -2.8 | 50.0 |
| 1,1,1,2-Tetrachloroethane | Ave | 0.3009 | 0.3029 | | 10.1 | 10.0 | 0.7 | 50.0 |
| Ethylbenzene | Ave | 0.5548 | 0.5221 | | 9.41 | 10.0 | -5.9 | 20.0 |
| m-Xylene & p-Xylene | Ave | 0.7007 | 0.6743 | | 19.2 | 20.0 | -3.8 | 50.0 |
| o-Xylene | Ave | 0.6881 | 0.6526 | | 9.48 | 10.0 | -5.2 | 50.0 |
| Styrene | Ave | 1.081 | 1.069 | | 9.89 | 10.0 | -1.1 | 50.0 |
| Bromoform | Lin1 | | 0.1306 | 0.1000 | 8.02 | 10.0 | -19.8 | 50.0 |
| Isopropylbenzene | Ave | 1.807 | 1.653 | | 9.15 | 10.0 | -8.5 | 50.0 |
| 1,1,2,2-Tetrachloroethane | Ave | 0.8000 | 0.7161 | 0.3000 | 8.95 | 10.0 | -10.5 | 50.0 |
| Bromobenzene | Ave | 0.7418 | 0.7111 | | 9.59 | 10.0 | -4.1 | 50.0 |
| 1,2,3-Trichloropropane | Ave | 0.2354 | 0.2215 | | 9.41 | 10.0 | -5.9 | 50.0 |
| trans-1,4-Dichloro-2-butene | Lin1 | | 0.1142 | | 5.35 | 10.0 | -46.5 | 50.0 |
| n-Propylbenzene | Ave | 0.8684 | 0.7883 | | 9.08 | 10.0 | -9.2 | 50.0 |
| 2-Chlorotoluene | Ave | 0.7507 | 0.6884 | | 9.17 | 10.0 | -8.3 | 50.0 |
| 1,3,5-Trimethylbenzene | Ave | 2.803 | 2.502 | | 8.93 | 10.0 | -10.7 | 50.0 |
| 4-Chlorotoluene | Ave | 0.7715 | 0.7334 | | 9.51 | 10.0 | -4.9 | 50.0 |
| tert-Butylbenzene | Ave | 2.485 | 2.134 | | 8.59 | 10.0 | -14.1 | 50.0 |
| 1,2,4-Trimethylbenzene | Ave | 2.864 | 2.552 | | 8.91 | 10.0 | -10.9 | 50.0 |
| sec-Butylbenzene | Ave | 3.590 | 3.103 | | 8.64 | 10.0 | -13.6 | 50.0 |
| 1,3-Dichlorobenzene | Ave | 1.509 | 1.430 | | 9.48 | 10.0 | -5.2 | 50.0 |
| p-Isopropyltoluene | Ave | 2.919 | 2.588 | | 8.87 | 10.0 | -11.3 | 50.0 |
| 1,4-Dichlorobenzene | Ave | 1.553 | 1.458 | | 9.39 | 10.0 | -6.1 | 50.0 |
| n-Butylbenzene | Ave | 2.865 | 2.381 | | 8.31 | 10.0 | -16.9 | 50.0 |
| 1,2-Dichlorobenzene | Ave | 1.457 | 1.384 | | 9.49 | 10.0 | -5.1 | 50.0 |
| 1,2-Dibromo-3-Chloropropane | Lin1 | | 0.0895 | | 7.87 | 10.0 | -21.3 | 50.0 |
| 1,3,5-Trichlorobenzene | Ave | 1.209 | 1.024 | | 8.48 | 10.0 | -15.2 | 50.0 |
| 1,2,4-Trichlorobenzene | Ave | 1.099 | 0.8955 | | 8.15 | 10.0 | -18.5 | 50.0 |
| Hexachlorobutadiene | Ave | 0.5480 | 0.4190 | | 7.65 | 10.0 | -23.5 | 50.0 |
| Naphthalene | Ave | 2.433 | 1.866 | | 7.67 | 10.0 | -23.3 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-14408-1

SDG No.:

Lab Sample ID: CCVIS 240-56479/2 Calibration Date: 08/31/2012 21:33

Instrument ID: A3UX17 Calib Start Date: 07/30/2012 16:22

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/30/2012 18:22

Lab File ID: UXR940.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 1,2,3-Trichlorobenzene | Qua | | 0.7788 | | 7.33 | 10.0 | -26.7 | 50.0 |
| Dibromofluoromethane (Surr) | Ave | 0.1954 | 0.2190 | | 9.98 | 8.91 | 12.0 | 50.0 |
| 1,2-Dichloroethane-d4 (Surr) | Ave | 0.3003 | 0.2863 | | 8.49 | 8.91 | -4.7 | 50.0 |
| Toluene-d8 (Surr) | Ave | 1.440 | 1.353 | | 8.37 | 8.91 | -6.0 | 50.0 |
| 4-Bromofluorobenzene (Surr) | Ave | 0.5338 | 0.5063 | | 8.45 | 8.91 | -5.2 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-14408-1

SDG No.:

Lab Sample ID: CCV 240-56479/3  Calibration Date: 08/31/2012 21:56

Instrument ID: A3UX17  Calib Start Date: 07/19/2012 14:58

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 07/19/2012 16:58

Lab File ID: UXR941.D  Conc. Units: ug/L  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorofluoromethane | Ave | 0.4818 | 0.3889 | | 8.07 | 10.0 | -19.3 | 50.0 |
| Ethyl ether | Ave | 0.3267 | 0.2278 | | 6.97 | 10.0 | -30.3 | 50.0 |
| 3-Chloro-1-propene | Ave | 0.1758 | 0.1271 | | 7.23 | 10.0 | -27.7 | 50.0 |
| Diisopropyl ether | Ave | 0.2752 | 0.2432 | | 44.2 | 50.0 | -11.6 | 50.0 |
| 2-Chloro-1,3-butadiene | Ave | 0.5635 | 0.3896 | | 6.91 | 10.0 | -30.9 | 50.0 |
| Ethyl-t-butyl ether (ETBE) | Ave | 1.171 | 0.7458 | | 6.37 | 10.0 | -36.3 | 50.0 |
| Ethyl acetate | Ave | 0.3309 | 0.1948 | | 11.8 | 20.0 | -41.1 | 50.0 |
| Propionitrile | Ave | 0.0498 | 0.0331 | | 13.3 | 20.0 | -33.6 | 50.0 |
| Methacrylonitrile | Ave | 0.2442 | 0.1382 | | 5.66 | 10.0 | -43.4 | 50.0 |
| Isobutyl alcohol | Ave | 0.0180 | 0.0085 | | 94.8 | 200 | -52.6* | 50.0 |
| Tert-amyl-methyl ether (TAME) | Ave | 0.9690 | 0.6504 | | 6.71 | 10.0 | -32.9 | 50.0 |
| n-Heptane | Ave | 0.0721 | 0.0679 | | 9.42 | 10.0 | -5.8 | 50.0 |
| n-Butanol | Ave | 0.0153 | 0.0067 | | 87.5 | 200 | -56.2* | 50.0 |
| Methyl methacrylate | Ave | 0.2987 | 0.1777 | | 5.95 | 10.0 | -40.5 | 50.0 |
| 2-Nitropropane | Ave | 0.0828 | 0.0353 | | 8.54 | 20.0 | -57.3* | 50.0 |
| Cyclohexanone | Ave | 0.0302 | 0.0538 | | 178 | 100 | 78.5* | 50.0 |
| 1,2,3-Trimethylbenzene | Ave | 3.337 | 2.430 | | 7.28 | 10.0 | -27.2 | 50.0 |
| 2-Methylnaphthalene | Ave | 1.554 | 0.8491 | | 10.9 | 20.0 | -45.4 | 50.0 |

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-14408-1

SDG No.:

Sample No.: STD8260 240-52548/4 Date Analyzed: 07/30/2012 17:10

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXR0218.D Heated Purge: (Y/N) N

Calibration ID: 10345

| | | FB | | CBZ | | DCB | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | | 1603791 | 5.76 | 1057699 | 8.48 | 575622 | 10.72 |
| UPPER LIMIT | | 3207582 | 6.26 | 2115398 | 8.98 | 1151244 | 11.22 |
| LOWER LIMIT | | 801896 | 5.26 | 528850 | 7.98 | 287811 | 10.22 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| ICV 240-52548/8 | | 1668303 | 5.76 | 1130873 | 8.47 | 606714 | 10.72 |
| CCVIS 240-56479/2 | | 1702660 | 5.76 | 1296820 | 8.47 | 730804 | 10.72 |

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-14408-1

SDG No.:

Sample No.: CCVIS 240-56479/2 Date Analyzed: 08/31/2012 21:33

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXR940.D Heated Purge: (Y/N) N

Calibration ID: 10345

| | | FB | | CBZ | | DCB | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 1702660 | 5.76 | 1296820 | 8.47 | 730804 | 10.72 |
| UPPER LIMIT | | 3405320 | 6.26 | 2593640 | 8.97 | 1461608 | 11.22 |
| LOWER LIMIT | | 851330 | 5.26 | 648410 | 7.97 | 365402 | 10.22 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| CCV 240-56479/3 | | 1876641 | 5.76 | 1372537 | 8.48 | 728236 | 10.72 |
| LCS 240-56479/4 | | 1801874 | 5.76 | 1373158 | 8.48 | 771338 | 10.72 |
| MB 240-56479/5 | | 1824509 | 5.76 | 1355289 | 8.48 | 717015 | 10.72 |
| 240-14408-1 | TB-082112 | 1852075 | 5.76 | 1380782 | 8.48 | 727674 | 10.72 |
| 240-14408-2 | MT-MW09S-082112 | 1791879 | 5.76 | 1330630 | 8.48 | 709474 | 10.72 |
| 240-14408-3 | MT-MW11S-082112 | 1670181 | 5.76 | 1256479 | 8.48 | 685690 | 10.72 |
| 240-14408-4 | MT-MW12S-082112 | 1803830 | 5.76 | 1365445 | 8.48 | 719052 | 10.72 |
| 240-14497-E-10 MS | | 1842850 | 5.76 | 1387382 | 8.47 | 784575 | 10.72 |
| 240-14497-F-10 MSD | | 1811109 | 5.76 | 1379740 | 8.48 | 782658 | 10.72 |

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8260B

SDG 240-14408-1

**SAMPLE ID** MT-MW09S-082112

**SAMPLE CALC**

| IS AREA | DILUTION | COMPOUND OF INTEREST | IS AMOUNT (NG) | Final Volume (ML) | AVE RRF | CONCENTRATION ug/L |
|---|---|---|---|---|---|---|
| 1791879 | 1 | 395807 | 10 | 5 | 0.7686 | 2.87 |
| | | | | **Sample Volume (ML)** | | |
| | | | | 5 | | |

Carbon disulfide = 2.87 ug/L

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\NCCHROM\ChromData\A3UX17\20120831-12880.b\UXR945.D
Lims ID: 240-14408-A-2 Client ID: MT-MW09S-082112
Inject. Date: 31-Aug-2012 23:25:30 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 240-0012880-007
Misc. Info.:
Operator: Instrument ID: A3UX17
Vol. Injected: 1.0000 ALS Bottle#: 35
Lims Batch ID: 56479 Lims Sample ID: 7
Detector: MS SCAN

Method: \\NCCHROM\ChromData\A3UX17\20120831-12880.b\8260_17.m
Last Update: 04-Sep-2012 11:07:01 Calib Date: 30-Jul-2012 18:22:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCCHROM\ChromData\A3UX17\20120730-11939.b\UXR0221.D
Limit Group: MSV 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Process Host: XAWRK037

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 5.763 | 5.763 | 0.0 | 99 | 1791879 | 10.0 | |
| * 2 Chlorobenzene-d5 | 117 | 8.479 | 8.479 | 0.0 | 84 | 1330630 | 10.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 10.720 | 10.720 | 0.0 | 95 | 709474 | 10.0 | |
| $ 6 Dibromofluoromethane (Surr) | 113 | 5.194 | 5.182 | 0.012 | 58 | 321806 | 9.19 | |
| $ 7 1,2-Dichloroethane-d4 (Surr) | 65 | 5.490 | 5.479 | 0.011 | 0 | 426249 | 7.92 | |
| $ 8 Toluene-d8 (Surr) | 98 | 7.151 | 7.139 | 0.012 | 93 | 1427325 | 7.45 | |
| $ 9 4-Bromofluorobenzene (Surr) | 95 | 9.582 | 9.582 | 0.0 | 88 | 519792 | 7.32 | |
| 14 Dichlorodifluoromethane | 85 | | 1.648 | | | | | |
| 15 Chloromethane | 50 | 1.826 | 1.826 | 0.0 | 79 | 19060 | 0.2536 | |
| 17 Vinyl chloride | 62 | | 1.957 | | | | | 9 |
| 18 Bromomethane | 94 | 2.324 | 2.313 | 0.011 | 26 | 6518 | 0.1035 | |
| 19 Chloroethane | 64 | | 2.431 | | | | | |
| 21 Trichlorofluoromethane | 101 | | 2.668 | | | | | |
| 25 1,1-Dichloroethene | 96 | | 3.178 | | | | | |
| 26 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | | 3.202 | | | | | |
| 27 Acetone | 43 | 3.237 | 3.238 | -0.001 | 95 | 61553 | 1.86 | |
| 29 Carbon disulfide | 76 | 3.391 | 3.392 | -0.001 | 98 | 395807 | 2.87 | |
| 33 Methylene Chloride | 84 | | 3.641 | | | | | |
| 34 2-Methyl-2-propanol | 59 | 3.747 | 3.747 | 0.0 | 77 | 6083 | 1.48 | |
| 35 Methyl tert-butyl ether | 73 | | 3.878 | | | | | |
| 37 trans-1,2-Dichloroethene | 96 | | 3.890 | | | | | |
| 39 1,1-Dichloroethane | 63 | | 4.269 | | | | | |
| 41 Isopropyl ether | 87 | | 4.305 | | | | | |
| 40 Vinyl acetate | 86 | | 4.305 | | | | | |
| 43 Tert-butyl ethyl ether | 59 | | 4.625 | | | | | 9 |
| 44 2,2-Dichloropropane | 77 | | 4.779 | | | | | 9 |
| 45 cis-1,2-Dichloroethene | 96 | | 4.779 | | | | | |
| 46 2-Butanone (MEK) | 43 | | 4.791 | | | | | |
| 50 Chlorobromomethane | 128 | | 4.993 | | | | | |
| 52 Chloroform | 83 | | 5.052 | | | | | 9 |
| 53 1,1,1-Trichloroethane | 97 | | 5.206 | | | | | |
| 55 Carbon tetrachloride | 117 | | 5.348 | | | | | |
| 56 1,1-Dichloropropene | 75 | | 5.348 | | | | | 9 |

Client: Tetra Tech, Inc

Job Number: 240-14408-1

## Surrogate Recovery Report

**8270D Semivolatile Organic Compounds (GC/MS)**

**Client Matrix: Water**

| Lab Sample ID | Client Sample ID | 2FP %Rec | PHL %Rec | NBZ %Rec | FBP %Rec | TBP %Rec | TPH %Rec |
|---|---|---|---|---|---|---|---|
| 240-14408-2 | MT-MW09S-082112 | 71 | 74 | 66 | 66 | 86 | 44 |
| 240-14408-3 | MT-MW11S-082112 | 77 | 75 | 68 | 68 | 78 | 63 |
| 240-14408-4 | MT-MW12S-082112 | 55 | 54 | 50 | 54 | 70 | 72 |
| MB 240-55629/14-A | | 76 | 74 | 71 | 71 | 68 | 88 |
| LCS 240-55629/15-A | | 94 | 93 | 91 | 86 | 100 | 100 |

| Surrogate | Acceptance Limits |
|---|---|
| 2FP = 2-Fluorophenol (Surr) | 10-110 |
| PHL = Phenol-d5 (Surr) | 21-110 |
| NBZ = Nitrobenzene-d5 (Surr) | 21-110 |
| FBP = 2-Fluorobiphenyl (Surr) | 20-110 |
| TBP = 2,4,6-Tribromophenol (Surr) | 21-110 |
| TPH = Terphenyl-d14 (Surr) | 24-110 |

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-14408-1

SDG No.:

Lab File ID: 20906021.D Lab Sample ID: MB 240-55629/14-A

Matrix: Water Date Extracted: 08/24/2012 11:11

Instrument ID: A4HP9 Date Analyzed: 09/06/2012 17:53

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| | LCS 240-55629/15-A | 20906022.D | 09/06/2012 18:13 |
| MT-MW09S-082112 | 240-14408-2 | 20906024.D | 09/06/2012 18:52 |
| MT-MW11S-082112 | 240-14408-3 | 20906025.D | 09/06/2012 19:11 |
| MT-MW12S-082112 | 240-14408-4 | 20906026.D | 09/06/2012 19:31 |

Client: Tetra Tech, Inc

Job Number: 240-14408-1

**Method Blank - Batch: 240-55629**

**Method: 8270D**
**Preparation: 3520C**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | MB 240-55629/14-A | Analysis Batch: | 240-56877 | Instrument ID: | A4HP9 |
| Client Matrix: | Water | Prep Batch: | 240-55629 | Lab File ID: | 20906021.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 1000 mL |
| Analysis Date: | 09/06/2012 1753 | Units: | ug/L | Final Weight/Volume: | 2 mL |
| Prep Date: | 08/24/2012 1111 | | | Injection Volume: | 1 uL |
| Leach Date: | N/A | | | | |

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| 1,1'-Biphenyl | 1.0 | U | 0.80 | 1.0 |
| 1,4-Dioxane | 1.0 | U | 0.49 | 1.0 |
| 2,4,6-Trichlorophenol | 5.0 | U | 0.80 | 5.0 |
| 2,4,5-Trichlorophenol | 5.0 | U | 0.30 | 5.0 |
| 2,4-Dichlorophenol | 2.0 | U | 0.80 | 2.0 |
| 2,4-Dimethylphenol | 2.0 | U | 0.80 | 2.0 |
| 2,4-Dinitrophenol | 5.0 | U | 2.4 | 5.0 |
| 2,4-Dinitrotoluene | 5.0 | U | 0.27 | 5.0 |
| 2-Chloronaphthalene | 1.0 | U | 0.10 | 1.0 |
| 2-Chlorophenol | 1.0 | U | 0.29 | 1.0 |
| 2-Methylnaphthalene | 0.20 | U | 0.10 | 0.20 |
| 2-Methylphenol | 1.0 | U | 0.80 | 1.0 |
| 2-Nitroaniline | 2.0 | U | 0.80 | 2.0 |
| 2-Nitrophenol | 2.0 | U | 0.28 | 2.0 |
| 3 & 4 Methylphenol | 2.0 | U | 0.75 | 2.0 |
| 3,3'-Dichlorobenzidine | 5.0 | U | 0.37 | 5.0 |
| 3-Nitroaniline | 2.0 | U | 0.28 | 2.0 |
| 4,6-Dinitro-2-methylphenol | 5.0 | U | 2.4 | 5.0 |
| 4-Bromophenyl phenyl ether | 2.0 | U | 0.80 | 2.0 |
| 4-Chloro-3-methylphenol | 2.0 | U | 0.80 | 2.0 |
| 4-Chloroaniline | 2.0 | U | 0.80 | 2.0 |
| 4-Chlorophenyl phenyl ether | 2.0 | U | 0.30 | 2.0 |
| 4-Nitroaniline | 2.0 | U | 0.80 | 2.0 |
| Acenaphthene | 0.20 | U | 0.10 | 0.20 |
| Acenaphthylene | 0.20 | U | 0.10 | 0.20 |
| Acetophenone | 1.0 | U | 0.34 | 1.0 |
| Anthracene | 0.20 | U | 0.10 | 0.20 |
| Atrazine | 1.0 | U | 0.34 | 1.0 |
| Benzaldehyde | 1.0 | U | 0.39 | 1.0 |
| Benzo[a]anthracene | 0.20 | U | 0.10 | 0.20 |
| Benzo[a]pyrene | 0.20 | U | 0.10 | 0.20 |
| Benzo[b]fluoranthene | 0.20 | U | 0.10 | 0.20 |
| Benzo[g,h,i]perylene | 0.20 | U | 0.10 | 0.20 |
| Benzo[k]fluoranthene | 0.20 | U | 0.10 | 0.20 |
| Bis(2-chloroethoxy)methane | 1.0 | U | 0.32 | 1.0 |
| Bis(2-chloroethyl)ether | 1.0 | U | 0.10 | 1.0 |
| Bis(2-ethylhexyl) phthalate | 2.0 | U | 0.80 | 2.0 |
| Butyl benzyl phthalate | 1.0 | U | 0.80 | 1.0 |
| Caprolactam | 5.0 | U | 0.80 | 5.0 |
| Carbazole | 1.0 | U | 0.28 | 1.0 |
| Chrysene | 0.20 | U | 0.10 | 0.20 |
| Di-n-butyl phthalate | 1.0 | U | 0.67 | 1.0 |
| Di-n-octyl phthalate | 1.0 | U | 0.80 | 1.0 |
| Dibenzo(a,h)anthracene | 0.20 | U | 0.10 | 0.20 |
| Dibenzofuran | 1.0 | U | 0.10 | 1.0 |

Client: Tetra Tech, Inc

Job Number: 240-14408-1

**Method Blank - Batch: 240-55629**

**Method: 8270D**
**Preparation: 3520C**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | MB 240-55629/14-A | Analysis Batch: | 240-56877 | Instrument ID: | A4HP9 |
| Client Matrix: | Water | Prep Batch: | 240-55629 | Lab File ID: | 20906021.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 1000 mL |
| Analysis Date: | 09/06/2012 1753 | Units: | ug/L | Final Weight/Volume: | 2 mL |
| Prep Date: | 08/24/2012 1111 | | | Injection Volume: | 1 uL |
| Leach Date: | N/A | | | | |

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| Diethyl phthalate | 1.0 | U | 0.60 | 1.0 |
| Dimethyl phthalate | 1.0 | U | 0.29 | 1.0 |
| Fluoranthene | 0.20 | U | 0.10 | 0.20 |
| Fluorene | 0.20 | U | 0.10 | 0.20 |
| Hexachlorobenzene | 0.20 | U | 0.10 | 0.20 |
| Hexachlorobutadiene | 1.0 | U | 0.27 | 1.0 |
| Hexachlorocyclopentadiene | 10 | U | 0.80 | 10 |
| Hexachloroethane | 1.0 | U | 0.80 | 1.0 |
| Indeno[1,2,3-cd]pyrene | 0.20 | U | 0.10 | 0.20 |
| Isophorone | 1.0 | U | 0.27 | 1.0 |
| N-Nitrosodi-n-propylamine | 1.0 | U | 0.80 | 1.0 |
| N-Nitrosodimethylamine | 1.0 | U | 0.31 | 1.0 |
| N-Nitrosodiphenylamine | 1.0 | U | 0.31 | 1.0 |
| Naphthalene | 0.20 | U | 0.10 | 0.20 |
| Nitrobenzene | 1.0 | U | 0.040 | 1.0 |
| Pentachlorophenol | 5.0 | U | 2.4 | 5.0 |
| Phenanthrene | 0.20 | U | 0.10 | 0.20 |
| Phenol | 1.0 | U | 0.60 | 1.0 |
| Pyrene | 0.20 | U | 0.10 | 0.20 |
| 2,2'-oxybis[1-chloropropane] | 1.0 | U | 0.40 | 1.0 |
| 2,6-Dinitrotoluene | 5.0 | U | 0.80 | 5.0 |
| 4-Nitrophenol | 5.0 | U | 2.4 | 5.0 |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| Terphenyl-d14 (Surr) | 88 | 24 - 110 |
| Phenol-d5 (Surr) | 74 | 21 - 110 |
| Nitrobenzene-d5 (Surr) | 71 | 21 - 110 |
| 2-Fluorophenol (Surr) | 76 | 10 - 110 |
| 2-Fluorobiphenyl (Surr) | 71 | 20 - 110 |
| 2,4,6-Tribromophenol (Surr) | 68 | 21 - 110 |

Client: Tetra Tech, Inc

Job Number: 240-14408-1

**Lab Control Sample - Batch: 240-55629**

**Method: 8270D**
**Preparation: 3520C**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | LCS 240-55629/15-A | Analysis Batch: | 240-56877 | Instrument ID: | A4HP9 |
| Client Matrix: | Water | Prep Batch: | 240-55629 | Lab File ID: | 20906022.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 1000 mL |
| Analysis Date: | 09/06/2012 1813 | Units: | ug/L | Final Weight/Volume: | 2 mL |
| Prep Date: | 08/24/2012 1111 | | | Injection Volume: | 1 uL |
| Leach Date: | N/A | | | | |

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| 1,1'-Biphenyl | 20.0 | 19.1 | 95 | 43 - 110 | |
| 1,4-Dioxane | 20.0 | 17.4 | 87 | 27 - 110 | |
| 2,4,6-Trichlorophenol | 20.0 | 19.3 | 97 | 45 - 110 | |
| 2,4,5-Trichlorophenol | 20.0 | 20.4 | 102 | 48 - 110 | |
| 2,4-Dichlorophenol | 20.0 | 19.1 | 95 | 41 - 110 | |
| 2,4-Dimethylphenol | 20.0 | 14.1 | 71 | 32 - 110 | |
| 2,4-Dinitrophenol | 20.0 | 17.5 | 87 | 10 - 110 | |
| 2,4-Dinitrotoluene | 20.0 | 20.4 | 102 | 53 - 110 | |
| 2-Chloronaphthalene | 20.0 | 18.4 | 92 | 43 - 110 | |
| 2-Chlorophenol | 20.0 | 19.1 | 96 | 29 - 110 | |
| 2-Methylnaphthalene | 20.0 | 18.5 | 93 | 45 - 110 | |
| 2-Methylphenol | 20.0 | 18.7 | 93 | 42 - 110 | |
| 2-Nitroaniline | 20.0 | 20.1 | 101 | 54 - 110 | |
| 2-Nitrophenol | 20.0 | 18.9 | 95 | 40 - 110 | |
| 3 & 4 Methylphenol | 40.0 | 38.3 | 96 | 44 - 110 | |
| 3,3'-Dichlorobenzidine | 20.0 | 10.1 | 50 | 22 - 110 | |
| 3-Nitroaniline | 20.0 | 19.1 | 95 | 53 - 110 | |
| 4,6-Dinitro-2-methylphenol | 20.0 | 20.1 | 101 | 31 - 110 | |
| 4-Bromophenyl phenyl ether | 20.0 | 18.9 | 95 | 45 - 110 | |
| 4-Chloro-3-methylphenol | 20.0 | 19.5 | 97 | 52 - 110 | |
| 4-Chloroaniline | 20.0 | 16.9 | 84 | 44 - 110 | |
| 4-Chlorophenyl phenyl ether | 20.0 | 19.2 | 96 | 47 - 110 | |
| 4-Nitroaniline | 20.0 | 20.0 | 100 | 54 - 110 | |
| Acenaphthene | 20.0 | 18.9 | 94 | 47 - 110 | |
| Acenaphthylene | 20.0 | 18.8 | 94 | 49 - 110 | |
| Acetophenone | 20.0 | 19.6 | 98 | 46 - 110 | |
| Anthracene | 20.0 | 19.3 | 96 | 52 - 110 | |
| Atrazine | 20.0 | 24.5 | 123 | 66 - 126 | |
| Benzaldehyde | 20.0 | 26.7 | 134 | 38 - 110 | * |
| Benzo[a]anthracene | 20.0 | 18.3 | 92 | 52 - 110 | |
| Benzo[a]pyrene | 20.0 | 16.4 | 82 | 44 - 110 | |
| Benzo[b]fluoranthene | 20.0 | 19.7 | 99 | 48 - 110 | |
| Benzo[g,h,i]perylene | 20.0 | 19.1 | 96 | 50 - 110 | |
| Benzo[k]fluoranthene | 20.0 | 17.7 | 89 | 49 - 110 | |
| Bis(2-chloroethoxy)methane | 20.0 | 18.7 | 94 | 43 - 110 | |
| Bis(2-chloroethyl)ether | 20.0 | 19.0 | 95 | 40 - 110 | |
| Bis(2-ethylhexyl) phthalate | 20.0 | 20.1 | 100 | 39 - 116 | |
| Butyl benzyl phthalate | 20.0 | 19.8 | 99 | 55 - 110 | |
| Caprolactam | 20.0 | 21.0 | 105 | 45 - 111 | |
| Carbazole | 20.0 | 19.6 | 98 | 55 - 110 | |
| Chrysene | 20.0 | 20.8 | 104 | 55 - 110 | |
| Di-n-butyl phthalate | 20.0 | 20.8 | 104 | 57 - 110 | |
| Di-n-octyl phthalate | 20.0 | 18.0 | 90 | 40 - 110 | |
| Dibenzo(a,h)anthracene | 20.0 | 19.2 | 96 | 49 - 110 | |
| Dibenzofuran | 20.0 | 18.9 | 94 | 51 - 110 | |
| Diethyl phthalate | 20.0 | 20.2 | 101 | 58 - 110 | |

Client: Tetra Tech, Inc

Job Number: 240-14408-1

**Lab Control Sample - Batch: 240-55629**

**Method: 8270D**
**Preparation: 3520C**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | LCS 240-55629/15-A | Analysis Batch: | 240-56877 | Instrument ID: | A4HP9 |
| Client Matrix: | Water | Prep Batch: | 240-55629 | Lab File ID: | 20906022.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 1000 mL |
| Analysis Date: | 09/06/2012 1813 | Units: | ug/L | Final Weight/Volume: | 2 mL |
| Prep Date: | 08/24/2012 1111 | | | Injection Volume: | 1 uL |
| Leach Date: | N/A | | | | |

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Dimethyl phthalate | 20.0 | 20.0 | 100 | 57 - 110 | |
| Fluoranthene | 20.0 | 20.2 | 101 | 54 - 110 | |
| Fluorene | 20.0 | 19.4 | 97 | 52 - 110 | |
| Hexachlorobenzene | 20.0 | 19.6 | 98 | 50 - 110 | |
| Hexachlorobutadiene | 20.0 | 16.1 | 80 | 33 - 110 | |
| Hexachlorocyclopentadiene | 20.0 | 7.36 | 37 | 10 - 110 | J |
| Hexachloroethane | 20.0 | 16.9 | 84 | 35 - 110 | |
| Indeno[1,2,3-cd]pyrene | 20.0 | 19.1 | 95 | 50 - 110 | |
| Isophorone | 20.0 | 20.1 | 101 | 49 - 110 | |
| N-Nitrosodi-n-propylamine | 20.0 | 20.1 | 100 | 47 - 110 | |
| N-Nitrosodimethylamine | 20.0 | 19.5 | 97 | 40 - 110 | |
| N-Nitrosodiphenylamine | 20.0 | 19.1 | 96 | 50 - 110 | |
| Naphthalene | 20.0 | 18.5 | 93 | 44 - 110 | |
| Nitrobenzene | 20.0 | 18.6 | 93 | 42 - 110 | |
| Pentachlorophenol | 20.0 | 20.4 | 102 | 18 - 110 | |
| Phenanthrene | 20.0 | 19.8 | 99 | 53 - 110 | |
| Phenol | 20.0 | 19.1 | 95 | 33 - 110 | |
| Pyrene | 20.0 | 18.7 | 94 | 52 - 110 | |
| 2,2'-oxybis[1-chloropropane] | 20.0 | 19.5 | 98 | 37 - 110 | |
| 2,6-Dinitrotoluene | 20.0 | 20.3 | 102 | 54 - 110 | |
| 4-Nitrophenol | 20.0 | 17.7 | 88 | 33 - 112 | |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| Terphenyl-d14 (Surr) | 100 | 24 - 110 |
| Phenol-d5 (Surr) | 93 | 21 - 110 |
| Nitrobenzene-d5 (Surr) | 91 | 21 - 110 |
| 2-Fluorophenol (Surr) | 94 | 10 - 110 |
| 2-Fluorobiphenyl (Surr) | 86 | 20 - 110 |
| 2,4,6-Tribromophenol (Surr) | 100 | 21 - 110 |

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Canton Job No.: 240-14408-1

SDG No.:

Lab File ID: 20906001.D DFTPP Injection Date: 09/06/2012

Instrument ID: A4HP9 DFTPP Injection Time: 10:52

Analysis Batch No.: 56877

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 51 | 30.0- 80.0% of mass 198 | 31.4 | |
| 68 | Less than 2.0% of mass 69 | 0.0 | (0.0)1 |
| 69 | Mass 69 relative abundance | 51.1 | |
| 70 | Less than 2.0% of mass 69 | 0.2 | (0.5)1 |
| 127 | 25.0 - 75.0% of mass 198 | 45.5 | |
| 197 | Less than 1.0% of mass 198 | 0.0 | |
| 198 | Base Peak, 100% relative abundance | 100.0 | |
| 199 | 5.0 to 9.0% of mass 198 | 6.7 | |
| 275 | 10.0- 30.0% of mass 198 | 25.5 | |
| 365 | Greater than 0.75% of mass 198 | 2.6 | |
| 441 | Present, but less than mass 443 | 12.7 | |
| 442 | 40.0 - 110.0% of mass 198 | 73.4 | |
| 443 | 15.0 - 24.0% of mass 442 | 14.2 | (19.3)2 |

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | STD5 240-56877/2 | 20906002.D | 09/06/2012 | 11:13 |
| | STD4 240-56877/3 | 20906003.D | 09/06/2012 | 11:32 |
| | STD3 240-56877/4 | 20906004.D | 09/06/2012 | 11:52 |
| | STD2 240-56877/5 | 20906005.D | 09/06/2012 | 12:11 |
| | STD1 240-56877/6 | 20906006.D | 09/06/2012 | 12:31 |
| | STD9 240-56877/7 | 20906007.D | 09/06/2012 | 12:50 |
| | STD8 240-56877/8 | 20906008.D | 09/06/2012 | 13:10 |
| | STD7 240-56877/9 | 20906009.D | 09/06/2012 | 13:29 |
| | STD6 240-56877/10 | 20906010.D | 09/06/2012 | 13:49 |
| | ICV 240-56877/11 | 20906011.D | 09/06/2012 | 14:36 |
| | MB 240-55629/14-A | 20906021.D | 09/06/2012 | 17:53 |
| | LCS 240-55629/15-A | 20906022.D | 09/06/2012 | 18:13 |
| MT-MW09S-082112 | 240-14408-2 | 20906024.D | 09/06/2012 | 18:52 |
| MT-MW11S-082112 | 240-14408-3 | 20906025.D | 09/06/2012 | 19:11 |
| MT-MW12S-082112 | 240-14408-4 | 20906026.D | 09/06/2012 | 19:31 |

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-14408-1  Analy Batch No.: 56877

SDG No.:

Instrument ID: A4HP9  GC Column: RXI-5SILMS  ID: 0.45(mm)  Heated Purge: (Y/N) N

Calibration Start Date: 09/06/2012 11:13  Calibration End Date: 09/06/2012 13:49  Calibration ID: 11220

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-56877/6 | 20906006.D |
| Level 2 | STD2 240-56877/5 | 20906005.D |
| Level 3 | STD3 240-56877/4 | 20906004.D |
| Level 4 | STD4 240-56877/3 | 20906003.D |
| Level 5 | STD5 240-56877/2 | 20906002.D |
| Level 6 | STD6 240-56877/10 | 20906010.D |
| Level 7 | STD7 240-56877/9 | 20906009.D |
| Level 8 | STD8 240-56877/8 | 20906008.D |
| Level 9 | STD9 240-56877/7 | 20906007.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 1,4-Dioxane | 0.7770 | 0.8194<br>0.7672 | 0.7786<br>0.8078 | 0.7911<br>0.8221 | 0.8122 | Ave | | 0.7969 | | | | 2.7 | | 20.0 | | | |
| N-Nitrosodimethylamine | 1.4062 | 1.3955<br>1.4081 | 1.3529<br>1.4634 | 1.4640<br>1.4420 | 1.4980 | Ave | | 1.4288 | | | | 3.3 | | 20.0 | | | |
| Pyridine | 2.1574 | 2.1450<br>2.1301 | 2.1507<br>2.2912 | 2.1711<br>2.2623 | 2.2960 | Ave | | 2.2005 | | | | 3.2 | | 20.0 | | | |
| Ethyl methacrylate | 1.8927 | 2.0414<br>1.8571 | 1.9733<br>1.9275 | 2.0070<br>1.9360 | 2.0121 | Ave | | 1.9559 | | | | 3.3 | | 20.0 | | | |
| 3-Chloropropionitrile | 0.8685 | 0.9281<br>0.8610 | 0.9072<br>0.8986 | 0.9189<br>0.8882 | 0.9164 | Ave | | 0.8984 | | | | 2.7 | | 20.0 | | | |
| Malononitrile | 2.3806 | 2.4456<br>2.3982 | 2.5171<br>2.4840 | 2.5915<br>2.4204 | 2.5867 | Ave | | 2.4780 | | | | 3.3 | | 20.0 | | | |
| Benzaldehyde | 1.8305<br>1.2726 | 1.8884<br>1.1371 | 1.8274<br>1.1518 | 1.8506<br>+++++ | 1.6699 | Qua | 0.5657 | 1.3843 | -0.014 | | 0.0100 | | | | 0.9930 | | 0.9900 |
| Benzoic acid | 0.2161 | +++++<br>0.2372 | +++++<br>0.2364 | 0.1202<br>0.2403 | 0.1970 | Qua | -0.539 | 0.2491 | 0 | | | | | | 1.0000 | | 0.9900 |
| Phenol | 2.1831 | 2.2650<br>2.2133 | 2.2272<br>2.3370 | 2.2872<br>2.2810 | 2.3340 | Ave | | 2.2660 | | | 0.8000 | 2.4 | | 20.0 | | | |
| Aniline | 2.7922 | 2.8756<br>2.8271 | 2.7843<br>2.9373 | 2.9065<br>3.0288 | 2.9320 | Ave | | 2.8855 | | | | 2.9 | | 20.0 | | | |
| Bis(2-chloroethyl)ether | 1.7299 | 1.9191<br>1.7441 | 1.8698<br>1.9679 | 1.8758<br>1.8264 | 1.8977 | Ave | | 1.8538 | | | 0.7000 | 4.5 | | 20.0 | | | |
| 2-Chlorophenol | 1.3413 | 1.4108<br>1.3461 | 1.3627<br>1.4556 | 1.4643<br>1.3949 | 1.4099 | Ave | | 1.3982 | | | 0.8000 | 3.3 | | 20.0 | | | |
| 1,3-Dichlorobenzene | 1.5141 | 1.6399<br>1.5063 | 1.5071<br>1.6001 | 1.5760<br>1.5616 | 1.5843 | Ave | | 1.5612 | | | | 3.1 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-14408-1 Analy Batch No.: 56877

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/06/2012 11:13 Calibration End Date: 09/06/2012 13:49 Calibration ID: 11220

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 1,4-Dichlorobenzene | 1.4984 | 1.6394<br>1.5116 | 1.5510<br>1.6118 | 1.5613<br>1.5573 | 1.5600 | Ave | | 1.5614 | | | | 3.0 | | 20.0 | | | |
| Benzyl alcohol | 1.0600 | 1.0680<br>1.0867 | 1.0479<br>1.1709 | 1.1153<br>1.1307 | 1.1296 | Ave | | 1.1011 | | | | 3.9 | | 20.0 | | | |
| 1,2-Dichlorobenzene | 1.4245 | 1.4669<br>1.4241 | 1.4269<br>1.5422 | 1.4548<br>1.4891 | 1.5079 | Ave | | 1.4671 | | | | 3.0 | | 20.0 | | | |
| 2-Methylphenol | 1.4906 | 1.5154<br>1.5167 | 1.5165<br>1.6011 | 1.5600<br>1.5824 | 1.5778 | Ave | | 1.5451 | | | 0.7000 | 2.6 | | 20.0 | | | |
| 2,2'-oxybis[1-chloropropane] | 1.7599 | 1.9165<br>1.7338 | 1.8129<br>1.8844 | 1.8430<br>1.8161 | 1.8303 | Ave | | 1.8246 | | | | 3.3 | | 20.0 | | | |
| 3 & 4 Methylphenol | 1.6022 | 1.5855<br>1.6231 | 1.5189<br>1.7083 | 1.6372<br>1.6706 | 1.6846 | Ave | | 1.6288 | | | | 3.7 | | 20.0 | | | |
| N-Nitrosodi-n-propylamine | 1.5016 | 1.5858<br>1.5038 | 1.5113<br>1.5961 | 1.5888<br>1.5422 | 1.5965 | Ave | | 1.5533 | | | 0.5000 | 2.8 | | 20.0 | | | |
| Acetophenone | 2.2429 | 2.3540<br>2.2681 | 2.2066<br>2.4082 | 2.3531<br>2.3353 | 2.3425 | Ave | | 2.3138 | | | 0.0100 | 2.9 | | 20.0 | | | |
| 2,4-Toluene diamine | 0.2024 | 0.3267<br>0.1645 | 0.3264<br>+++++ | 0.3584<br>+++++ | 0.2965 | Qua | 0.0653 | 0.3123 | -0.010 | | | | | | 0.9910 | | 0.9900 |
| Hexachloroethane | 0.6096 | 0.6244<br>0.6122 | 0.6243<br>0.6601 | 0.6479<br>0.6501 | 0.6374 | Ave | | 0.6332 | | | 0.3000 | 2.9 | | 20.0 | | | |
| Nitrobenzene | 0.5422 | 0.5732<br>0.5427 | 0.5493<br>0.5708 | 0.5780<br>0.5569 | 0.5743 | Ave | | 0.5609 | | | 0.2000 | 2.7 | | 20.0 | | | |
| Isophorone | 0.9513 | 0.9949<br>0.9596 | 0.9390<br>0.9989 | 1.0137<br>0.9555 | 0.9989 | Ave | | 0.9765 | | | 0.4000 | 2.9 | | 20.0 | | | |
| 2-Nitrophenol | 0.1897 | 0.1741<br>0.1922 | 0.1780<br>0.2006 | 0.1938<br>0.1939 | 0.1978 | Ave | | 0.1900 | | | 0.1000 | 4.9 | | 20.0 | | | |
| 2,4-Dimethylphenol | 0.4360 | 0.4498<br>0.4383 | 0.4369<br>0.4562 | 0.4627<br>0.4406 | 0.4592 | Ave | | 0.4474 | | | 0.2000 | 2.4 | | 20.0 | | | |
| 1,3,5-Trichlorobenzene | 0.3265 | 0.3449<br>0.3308 | 0.3286<br>0.3505 | 0.3417<br>0.3387 | 0.3324 | Ave | | 0.3368 | | | | 2.5 | | 20.0 | | | |
| Bis(2-chloroethoxy)methane | 0.5110 | 0.5540<br>0.5096 | 0.5096<br>0.5382 | 0.5515<br>0.5183 | 0.5389 | Ave | | 0.5289 | | | 0.3000 | 3.6 | | 20.0 | | | |
| 2,4-Dichlorophenol | 0.2834 | 0.2836<br>0.2875 | 0.2798<br>0.3008 | 0.2999<br>0.2910 | 0.2946 | Ave | | 0.2901 | | | 0.2000 | 2.7 | | 20.0 | | | |
| 1,2,4-Trichlorobenzene | 0.3172 | 0.3320<br>0.3233 | 0.3192<br>0.3419 | 0.3336<br>0.3317 | 0.3278 | Ave | | 0.3283 | | | | 2.5 | | 20.0 | | | |
| Naphthalene | 1.0364<br>1.0399 | 1.0701<br>1.0401 | 1.0123<br>1.0851 | 1.0632<br>1.0572 | 1.0672 | Ave | | 1.0524 | | | 0.7000 | 2.1 | | 20.0 | | | |
| 4-Chloroaniline | 0.4424 | 0.4617<br>0.4420 | 0.4320<br>0.4475 | 0.4555<br>0.4314 | 0.4773 | Ave | | 0.4487 | | | 0.0100 | 3.5 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-14408-1  Analy Batch No.: 56877

SDG No.:

Instrument ID: A4HP9  GC Column: RXI-5SILMS  ID: 0.45(mm)  Heated Purge: (Y/N) N

Calibration Start Date: 09/06/2012 11:13  Calibration End Date: 09/06/2012 13:49  Calibration ID: 11220

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Hexachlorobutadiene | 0.1845 | 0.1859<br>0.1882 | 0.1799<br>0.1971 | 0.1884<br>0.1897 | 0.1870 | Ave | | 0.1876 | | | 0.0100 | 2.6 | | 20.0 | | | |
| 1,2,3-Trichlorobenzene | 0.2987 | 0.3025<br>0.2978 | 0.2954<br>0.3207 | 0.3057<br>0.3065 | 0.3097 | Ave | | 0.3046 | | | | 2.7 | | 20.0 | | | |
| Caprolactam | 0.1371 | 0.1238<br>0.1387 | 0.1231<br>0.1457 | 0.1370<br>0.1355 | 0.1411 | Ave | | 0.1352 | | | 0.0100 | 5.9 | | 20.0 | | | |
| 4-Chloro-3-methylphenol | 0.3793 | 0.3742<br>0.3853 | 0.3670<br>0.4040 | 0.3980<br>0.3855 | 0.3954 | Ave | | 0.3861 | | | 0.2000 | 3.2 | | 20.0 | | | |
| 2-Methylnaphthalene | 0.6787<br>0.6695 | 0.6794<br>0.6763 | 0.6518<br>0.7080 | 0.6905<br>0.6786 | 0.6877 | Ave | | 0.6801 | | | 0.4000 | 2.3 | | 20.0 | | | |
| 2,4-Dinitrophenol | 0.2069 | +++++<br>0.2158 | 0.1151<br>0.2240 | 0.1484<br>0.2241 | 0.1908 | Qua | -0.256 | 0.2163 | 0.0003 | | 0.0100 | | | | 1.0000 | | 0.9900 |
| 1-Methylnaphthalene | 0.6420<br>0.6440 | 0.6491<br>0.6497 | 0.6455<br>0.6817 | 0.6666<br>0.6482 | 0.6468 | Ave | | 0.6526 | | | | 2.0 | | 20.0 | | | |
| 1,2,3,5-Tetrachlorobenzene | 0.5360 | 0.5422<br>0.5461 | 0.5091<br>0.5900 | 0.5439<br>0.5764 | 0.5475 | Ave | | 0.5489 | | | | 4.5 | | 20.0 | | | |
| Hexachlorocyclopentadiene | 0.3661 | 0.3316<br>0.3773 | 0.3355<br>0.4150 | 0.3680<br>0.4053 | 0.3894 | Ave | | 0.3735 | | | 0.0500 | 8.0 | | 20.0 | | | |
| 2,3,5,6-Tetrachlorophenol | 0.3108 | +++++<br>0.3197 | 0.2752<br>0.3455 | 0.2906<br>0.3333 | 0.3186 | Ave | | 0.3134 | | | | 7.7 | | 20.0 | | | |
| 2,4,6-Trichlorophenol | 0.3442 | 0.3436<br>0.3583 | 0.3159<br>0.3616 | 0.3346<br>0.3506 | 0.3621 | Ave | | 0.3464 | | | 0.2000 | 4.5 | | 20.0 | | | |
| 2,4,5-Trichlorophenol | 0.3525 | 0.3454<br>0.3469 | 0.3664<br>0.3876 | 0.3655<br>0.3779 | 0.3697 | Ave | | 0.3640 | | | 0.2000 | 4.1 | | 20.0 | | | |
| 1,1'-Biphenyl | 1.3930<br>1.3244 | 1.4253<br>1.3544 | 1.3331<br>1.4494 | 1.3964<br>1.4102 | 1.3817 | Ave | | 1.3853 | | | 0.0100 | 3.0 | | 20.0 | | | |
| 1,2,3,4 -Tetrachlorobenzene | 0.5143 | 0.5272<br>0.5221 | 0.5058<br>0.5597 | 0.5133<br>0.5449 | 0.5219 | Ave | | 0.5262 | | | | 3.4 | | 20.0 | | | |
| 2-Chloronaphthalene | 1.0551<br>1.0332 | 1.0847<br>1.0490 | 1.0524<br>1.1144 | 1.0623<br>1.0915 | 1.0716 | Ave | | 1.0683 | | | 0.8000 | 2.3 | | 20.0 | | | |
| 4,6-Dinitro-2-methylphenol | 0.1454 | +++++<br>0.1538 | 0.1098<br>0.1654 | 0.1360<br>0.1596 | 0.1556 | Ave | | 0.1465 | | | 0.0100 | 13.0 | | 20.0 | | | |
| 2-Nitroaniline | 0.4464 | 0.4590<br>0.4592 | 0.4387<br>0.4800 | 0.4617<br>0.4664 | 0.4711 | Ave | | 0.4603 | | | 0.0100 | 2.9 | | 20.0 | | | |
| Dimethyl phthalate | 1.2151 | 1.2629<br>1.2333 | 1.2008<br>1.3017 | 1.2429<br>1.2557 | 1.2581 | Ave | | 1.2463 | | | 0.0100 | 2.5 | | 20.0 | | | |
| 2,6-Dinitrotoluene | 0.2890 | 0.2623<br>0.2970 | 0.2557<br>0.3105 | 0.2863<br>0.3009 | 0.2921 | Ave | | 0.2867 | | | | 6.5 | | 20.0 | | | |
| 1,2-Dinitrobenzene | 0.1436 | 0.1296<br>0.1489 | 0.1350<br>0.1587 | 0.1434<br>0.1528 | 0.1513 | Ave | | 0.1454 | | | | 6.6 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-14408-1  Analy Batch No.: 56877

SDG No.:

Instrument ID: A4HP9  GC Column: RXI-5SILMS  ID: 0.45(mm)  Heated Purge: (Y/N) N

Calibration Start Date: 09/06/2012 11:13  Calibration End Date: 09/06/2012 13:49  Calibration ID: 11220

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Acenaphthylene | 1.7235<br>1.7378 | 1.7604<br>1.7622 | 1.7275<br>1.8694 | 1.7818<br>1.8176 | 1.7961 | Ave | | 1.7751 | | | 0.9000 | 2.7 | | 20.0 | | | |
| 3-Nitroaniline | 0.3104 | 0.2914<br>0.3198 | 0.2960<br>0.3355 | 0.3295<br>0.3224 | 0.3264 | Ave | | 0.3164 | | | 0.0100 | 5.0 | | 20.0 | | | |
| Acenaphthene | 1.0332<br>1.0663 | 1.1306<br>1.0773 | 1.0582<br>1.1366 | 1.0880<br>1.1112 | 1.1001 | Ave | | 1.0891 | | | 0.9000 | 3.1 | | 20.0 | | | |
| 4-Nitrophenol | 0.1967 | 0.1797<br>0.2028 | 0.1983<br>0.2201 | 0.2114<br>0.2116 | 0.2207 | Ave | | 0.2052 | | | | 6.7 | | 20.0 | | | |
| 2,4-Dinitrotoluene | 0.3906 | 0.3575<br>0.4018 | 0.3610<br>0.4228 | 0.3793<br>0.4065 | 0.4051 | Ave | | 0.3906 | | | 0.2000 | 5.9 | | 20.0 | | | |
| Dibenzofuran | 1.5449<br>1.5030 | 1.5896<br>1.5289 | 1.4721<br>1.6194 | 1.5459<br>1.5648 | 1.5463 | Ave | | 1.5461 | | | 0.8000 | 2.8 | | 20.0 | | | |
| Diethyl phthalate | 1.2067 | 1.2252<br>1.2304 | 1.1808<br>1.2923 | 1.2092<br>1.2547 | 1.2488 | Ave | | 1.2310 | | | 0.0100 | 2.8 | | 20.0 | | | |
| 4-Chlorophenyl phenyl ether | 0.6088 | 0.6094<br>0.6302 | 0.5835<br>0.6705 | 0.6069<br>0.6406 | 0.6257 | Ave | | 0.6219 | | | 0.4000 | 4.2 | | 20.0 | | | |
| 4-Nitroaniline | 0.3341 | 0.3053<br>0.3414 | 0.3186<br>0.3607 | 0.3358<br>0.3548 | 0.3429 | Ave | | 0.3367 | | | 0.0100 | 5.4 | | 20.0 | | | |
| Fluorene | 1.2316<br>1.2752 | 1.2973<br>1.2906 | 1.2430<br>1.3482 | 1.2928<br>1.3148 | 1.3010 | Ave | | 1.2883 | | | 0.9000 | 2.7 | | 20.0 | | | |
| N-Nitrosodiphenylamine | 0.5541 | 0.5704<br>0.5614 | 0.5369<br>0.6040 | 0.5604<br>0.5794 | 0.5580 | Ave | | 0.5656 | | | 0.0100 | 3.5 | | 20.0 | | | |
| 1,2-Diphenylhydrazine(as Azobenzene) | 1.0698 | 1.1610<br>1.0794 | 1.1131<br>1.1655 | 1.1582<br>1.1239 | 1.1605 | Ave | | 1.1298 | | | | 3.4 | | 20.0 | | | |
| Azobenzene | 1.0697 | 1.1610<br>1.0796 | 1.1191<br>1.1653 | 1.1589<br>1.1239 | 1.1609 | Ave | | 1.1298 | | | | 3.4 | | 20.0 | | | |
| 4-Bromophenyl phenyl ether | 0.2041 | 0.2049<br>0.2083 | 0.1918<br>0.2267 | 0.2119<br>0.2183 | 0.2120 | Ave | | 0.2097 | | | 0.1000 | 4.9 | | 20.0 | | | |
| Hexachlorobenzene | 0.1842<br>0.1949 | 0.1925<br>0.1992 | 0.1776<br>0.2146 | 0.1947<br>0.2070 | 0.1957 | Ave | | 0.1956 | | | 0.1000 | 5.6 | | 20.0 | | | |
| Atrazine | 0.1866 | 0.1900<br>0.1892 | 0.1905<br>0.2022 | 0.1998<br>0.1921 | 0.1983 | Ave | | 0.1936 | | | 0.0100 | 2.9 | | 20.0 | | | |
| Pentachlorophenol | 0.1420 | 0.0821<br>0.1550 | 0.1129<br>0.1651 | 0.1226<br>0.1638 | 0.1459 | Qua | -0.077 | 0.1437 | 0.0005 | | 0.0500 | | | | 0.9990 | | 0.9900 |
| Phenanthrene | 1.1287<br>1.0872 | 1.1364<br>1.1056 | 1.0823<br>1.2020 | 1.1378<br>1.1429 | 1.1427 | Ave | | 1.1295 | | | 0.7000 | 3.2 | | 20.0 | | | |
| Anthracene | 1.1220<br>1.1358 | 1.1466<br>1.1605 | 1.1059<br>1.2591 | 1.1849<br>1.2065 | 1.2007 | Ave | | 1.1691 | | | 0.7000 | 4.1 | | 20.0 | | | |
| Carbazole | 1.0228 | 1.0499<br>1.0453 | 1.0116<br>1.1263 | 1.0637<br>1.0704 | 1.0702 | Ave | | 1.0575 | | | 0.0100 | 3.3 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-14408-1 Analy Batch No.: 56877

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/06/2012 11:13 Calibration End Date: 09/06/2012 13:49 Calibration ID: 11220

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Di-n-butyl phthalate | 1.2419 | 1.2257<br>1.2696 | 1.1933<br>1.3724 | 1.2509<br>1.3001 | 1.3093 | Ave | | 1.2704 | | | 0.0100 | 4.4 | | 20.0 | | | |
| Fluoranthene | 1.1671<br>1.2132 | 1.1856<br>1.2423 | 1.1611<br>1.3355 | 1.2455<br>1.2759 | 1.2508 | Ave | | 1.2308 | | | 0.6000 | 4.5 | | 20.0 | | | |
| Benzidine | 0.6272 | 0.5812<br>0.6329 | 0.5986<br>0.6778 | 0.6959<br>0.6249 | 0.6737 | Ave | | 0.6390 | | | | 6.3 | | 20.0 | | | |
| Pyrene | 1.1815<br>1.2015 | 1.2343<br>1.2168 | 1.1800<br>1.3155 | 1.2883<br>1.2702 | 1.2449 | Ave | | 1.2370 | | | 0.6000 | 3.8 | | 20.0 | | | |
| Butyl benzyl phthalate | 0.5283 | 0.4943<br>0.5316 | 0.5101<br>0.5682 | 0.5630<br>0.5563 | 0.5652 | Ave | | 0.5396 | | | 0.0100 | 5.2 | | 20.0 | | | |
| 3,3'-Dimethoxybenzidine | 0.3030 | 0.2364<br>0.3177 | 0.2653<br>0.3446 | 0.2985<br>0.3288 | 0.3157 | Ave | | 0.3013 | | | | 12.0 | | 20.0 | | | |
| Bis(2-ethylhexyl) phthalate | 0.7367 | 0.6946<br>0.7378 | 0.7032<br>0.7934 | 0.7640<br>0.7666 | 0.7832 | Ave | | 0.7474 | | | 0.0100 | 4.8 | | 20.0 | | | |
| 4,4'-Methylene bis(2-chloroaniline) | 0.2360 | 0.2062<br>0.2363 | 0.2142<br>0.2537 | 0.2428<br>0.2481 | 0.2421 | Ave | | 0.2349 | | | | 7.0 | | 20.0 | | | |
| 3,3'-Dichlorobenzidine | 0.4302 | 0.3958<br>0.4418 | 0.4017<br>0.4762 | 0.4363<br>0.4551 | 0.4401 | Ave | | 0.4346 | | | 0.0100 | 6.1 | | 20.0 | | | |
| Benzo[a]anthracene | 1.2266<br>1.1816 | 1.2278<br>1.2032 | 1.1825<br>1.2515 | 1.2066<br>1.3113 | 1.2040 | Ave | | 1.2217 | | | 0.8000 | 3.3 | | 20.0 | | | |
| Chrysene | 1.1139<br>1.0455 | 1.0817<br>1.0817 | 1.0149<br>1.1675 | 1.1252<br>1.0869 | 1.0888 | Ave | | 1.0896 | | | 0.7000 | 4.0 | | 20.0 | | | |
| Di-n-octyl phthalate | 1.5078 | 1.2290<br>1.5557 | 1.3472<br>1.6864 | 1.5435<br>1.6102 | 1.6198 | Ave | | 1.5125 | | | 0.0100 | 10.0 | | 20.0 | | | |
| Benzo[b]fluoranthene | 1.2742<br>1.4608 | 1.3257<br>1.4867 | 1.3918<br>1.6178 | 1.5448<br>1.6134 | 1.5525 | Ave | | 1.4742 | | | 0.7000 | 8.3 | | 20.0 | | | |
| Benzo[k]fluoranthene | 1.1829<br>1.2610 | 1.2504<br>1.2859 | 1.2154<br>1.4163 | 1.2595<br>1.2914 | 1.2321 | Ave | | 1.2661 | | | 0.7000 | 5.2 | | 20.0 | | | |
| Benzo[a]pyrene | 1.0940<br>1.2360 | 1.1280<br>1.2535 | 1.1518<br>1.3695 | 1.2210<br>1.3066 | 1.2588 | Ave | | 1.2244 | | | 0.7000 | 7.2 | | 20.0 | | | |
| Indeno[1,2,3-cd]pyrene | 0.9961<br>1.3067 | 1.1845<br>1.3344 | 1.1810<br>1.4604 | 1.3412<br>1.3864 | 1.3460 | Ave | | 1.2818 | | | 0.5000 | 11.0 | | 20.0 | | | |
| Dibenzo(a,h)anthracene | 0.8304<br>1.0908 | 0.9400<br>1.1158 | 0.9706<br>1.2233 | 1.1051<br>1.1749 | 1.1277 | Ave | | 1.0643 | | | 0.4000 | 12.0 | | 20.0 | | | |
| Benzo[g,h,i]perylene | 0.8819<br>1.0850 | 0.9962<br>1.1068 | 0.9868<br>1.2069 | 1.1059<br>1.1401 | 1.1126 | Ave | | 1.0691 | | | 0.5000 | 9.1 | | 20.0 | | | |
| 2-Fluorophenol (Surr) | 1.4461 | 1.4516<br>1.4338 | 1.4294<br>1.4982 | 1.4997<br>1.5189 | 1.5020 | Ave | | 1.4725 | | | | 2.4 | | 20.0 | | | |
| Phenol-d5 (Surr) | 2.0014 | 2.0648<br>2.0209 | 2.0036<br>2.1738 | 2.0977<br>2.0976 | 2.1208 | Ave | | 2.0726 | | | | 3.0 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-14408-1  Analy Batch No.: 56877

SDG No.:

Instrument ID: A4HP9  GC Column: RXI-5SILMS  ID: 0.45(mm)  Heated Purge: (Y/N) N

Calibration Start Date: 09/06/2012 11:13  Calibration End Date: 09/06/2012 13:49  Calibration ID: 11220

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Nitrobenzene-d5 (Surr) | 0.5522<br>0.5547 | 0.5735<br>0.5523 | 0.5654<br>0.5821 | 0.5931<br>0.5674 | 0.5863 | Ave | | 0.5697 | | | | 2.7 | | 20.0 | | | |
| 2-Fluorobiphenyl (Surr) | 1.2071<br>1.2289 | 1.2660<br>1.2563 | 1.2386<br>1.3309 | 1.2676<br>1.2950 | 1.2859 | Ave | | 1.2641 | | | | 2.9 | | 20.0 | | | |
| 2,4,6-Tribromophenol (Surr) | <br>0.1405 | 0.1283<br>0.1472 | 0.1183<br>0.1584 | 0.1357<br>0.1530 | 0.1398 | Ave | | 0.1402 | | | | 9.3 | | 20.0 | | | |
| Terphenyl-d14 (Surr) | 0.7040<br>0.7718 | 0.7537<br>0.7852 | 0.7248<br>0.8464 | 0.8040<br>0.8282 | 0.7931 | Ave | | 0.7790 | | | | 5.9 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-14408-1 Analy Batch No.: 56877

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/06/2012 11:13 Calibration End Date: 09/06/2012 13:49 Calibration ID: 11220

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-56877/6 | 20906006.D |
| Level 2 | STD2 240-56877/5 | 20906005.D |
| Level 3 | STD3 240-56877/4 | 20906004.D |
| Level 4 | STD4 240-56877/3 | 20906003.D |
| Level 5 | STD5 240-56877/2 | 20906002.D |
| Level 6 | STD6 240-56877/10 | 20906010.D |
| Level 7 | STD7 240-56877/9 | 20906009.D |
| Level 8 | STD8 240-56877/8 | 20906008.D |
| Level 9 | STD9 240-56877/7 | 20906007.D |

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (NG/UL) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 |
| 1,4-Dioxane | DCB | Ave | 419572 | 23279<br>624649 | 43143<br>665000 | 79042<br>874342 | 203634 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| N-Nitrosodimethylamine | DCB | Ave | 759364 | 39649<br>1146388 | 74963<br>1204727 | 146273<br>1533621 | 375585 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Pyridine | DCB | Ave | 1165046 | 60941<br>1734234 | 119165<br>1886251 | 216921<br>2406079 | 575659 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Ethyl methacrylate | DCB | Ave | 1022071 | 57998<br>1511956 | 109335<br>1586832 | 200523<br>2059043 | 504480 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 3-Chloropropionitrile | DCB | Ave | 468974 | 26367<br>701007 | 50268<br>739746 | 91813<br>944605 | 229776 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Malononitrile | DCB | Ave | 1285532 | 69483<br>1952520 | 139469<br>2044990 | 258920<br>2574291 | 648551 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Benzaldehyde | DCB | Qua | 10194<br>687232 | 53652<br>925789 | 101255<br>948213 | 184900<br>+++++ | 418701 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>+++++ | 5.00 |
| Benzoic acid | NPT | Qua | 921836 | +++++<br>1533572 | +++++<br>1569232 | 92647<br>2068363 | 391841 | 20.0 | +++++<br>30.0 | +++++<br>40.0 | 4.00<br>50.0 | 10.0 |
| Phenol | DCB | Ave | 1178928 | 64352<br>1802014 | 123406<br>1923988 | 228522<br>2426029 | 585186 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Aniline | DCB | Ave | 1507807 | 81700<br>2301680 | 154273<br>2418127 | 290394<br>3221370 | 735140 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Bis(2-chloroethyl)ether | DCB | Ave | 934152 | 54523<br>1419998 | 103603<br>1620086 | 187413<br>1942486 | 475810 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 2-Chlorophenol | DCB | Ave | 724318 | 40081<br>1095968 | 75506<br>1198349 | 146302<br>1483567 | 353504 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 1,3-Dichlorobenzene | DCB | Ave | 817629 | 46591<br>1226397 | 83505<br>1317284 | 157461<br>1660809 | 397239 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 1,4-Dichlorobenzene | DCB | Ave | 809166 | 46577<br>1230715 | 85940<br>1326892 | 155995<br>1656271 | 391136 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-14408-1 Analy Batch No.: 56877

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/06/2012 11:13 Calibration End Date: 09/06/2012 13:49 Calibration ID: 11220

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (NG/UL) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 |
| Benzyl alcohol | DCB | Ave | | 30342 | 58062 | 111433 | 283233 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 572404 | 884771 | 963944 | 1202604 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 1,2-Dichlorobenzene | DCB | Ave | | 41675 | 79063 | 145354 | 378084 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 769260 | 1159466 | 1269639 | 1583783 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 2-Methylphenol | DCB | Ave | | 43055 | 84029 | 155868 | 395591 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 804956 | 1234796 | 1318154 | 1682962 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 2,2'-oxybis[1-chloropropane] | DCB | Ave | | 54449 | 100452 | 184136 | 458907 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 950387 | 1411579 | 1551358 | 1931561 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 3 & 4 Methylphenol | DCB | Ave | | 45045 | 84157 | 163575 | 422377 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 865215 | 1321453 | 1406386 | 1776736 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| N-Nitrosodi-n-propylamine | DCB | Ave | | 45054 | 83740 | 158736 | 400298 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 810906 | 1224348 | 1313993 | 1640229 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| Acetophenone | DCB | Ave | | 66880 | 122264 | 235103 | 587327 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 1211181 | 1846624 | 1982559 | 2483748 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 2,4-Toluene diamine | NPT | Qua | | 36448 | 70317 | 138171 | 294823 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 431732 | 531706 | +++++ | +++++ | | 10.0 | 15.0 | +++++ | +++++ | |
| Hexachloroethane | DCB | Ave | | 17740 | 34591 | 64736 | 159819 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 329194 | 498404 | 543446 | 691370 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| Nitrobenzene | NPT | Ave | | 63944 | 118340 | 222827 | 571100 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 1156382 | 1754184 | 1894368 | 2396856 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| Isophorone | NPT | Ave | | 110989 | 202304 | 390829 | 993340 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 2028904 | 3101555 | 3315248 | 4112791 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 2-Nitrophenol | NPT | Ave | | 19425 | 38344 | 74733 | 196662 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 404532 | 621321 | 665598 | 834630 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 2,4-Dimethylphenol | NPT | Ave | | 50176 | 94113 | 178401 | 456619 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 929826 | 1416590 | 1513991 | 1896430 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 1,3,5-Trichlorobenzene | NPT | Ave | | 38472 | 70791 | 131748 | 330520 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 696336 | 1069280 | 1163328 | 1458011 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| Bis(2-chloroethoxy)methane | NPT | Ave | | 61804 | 109785 | 212611 | 535927 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 1089864 | 1646903 | 1786324 | 2230829 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 2,4-Dichlorophenol | NPT | Ave | | 31633 | 60278 | 115613 | 292933 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 604444 | 929127 | 998423 | 1252370 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 1,2,4-Trichlorobenzene | NPT | Ave | | 37040 | 68774 | 128603 | 326017 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 676502 | 1044855 | 1134734 | 1427887 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| Naphthalene | NPT | Ave | 22367 | 119379 | 218082 | 409892 | 1061263 | 0.100 | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 2217873 | 3361803 | 3601342 | 4550327 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 4-Chloroaniline | NPT | Ave | | 51502 | 93066 | 175594 | 474629 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 943605 | 1428568 | 1485266 | 1856939 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| Hexachlorobutadiene | NPT | Ave | | 20740 | 38749 | 72650 | 185952 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 393538 | 608233 | 654253 | 816318 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 1,2,3-Trichlorobenzene | NPT | Ave | | 33742 | 63633 | 117850 | 307946 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 637086 | 962604 | 1064314 | 1319198 | | 10.0 | 15.0 | 20.0 | 25.0 | |

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-14408-1 Analy Batch No.: 56877

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/06/2012 11:13 Calibration End Date: 09/06/2012 13:49 Calibration ID: 11220

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (NG/UL) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 |
| Caprolactam | NPT | Ave | | 13809 | 26513 | 52819 | 140341 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 292310 | 448314 | 483480 | 583001 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 4-Chloro-3-methylphenol | NPT | Ave | | 41749 | 79063 | 153451 | 393201 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 809051 | 1245384 | 1340682 | 1659155 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 2-Methylnaphthalene | NPT | Ave | 14647 | 75789 | 140415 | 266212 | 683935 | 0.100 | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 1427904 | 2185853 | 2349774 | 2920803 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 2,4-Dinitrophenol | ANT | Qua | | +++++ | 30248 | 71049 | 231644 | | +++++ | 2.00 | 4.00 | 10.0 |
| | | | 546934 | 865338 | 907114 | 1158684 | | 20.0 | 30.0 | 40.0 | 50.0 | |
| 1-Methylnaphthalene | NPT | Ave | 13855 | 72406 | 139071 | 257000 | 643242 | 0.100 | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 1373426 | 2099855 | 2262323 | 2789959 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 1,2,3,5-Tetrachlorobenzene | ANT | Ave | | 36641 | 66886 | 130217 | 332332 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 708492 | 1095094 | 1194459 | 1489897 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| Hexachlorocyclopentadiene | ANT | Ave | | 22404 | 44083 | 88114 | 236379 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 483983 | 756591 | 840124 | 1047509 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 2,3,5,6-Tetrachlorophenol | ANT | Ave | | +++++ | 36157 | 69590 | 193360 | | +++++ | 1.00 | 2.00 | 5.00 |
| | | | 410843 | 641192 | 699443 | 861565 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 2,4,6-Trichlorophenol | ANT | Ave | | 23219 | 41510 | 80123 | 219772 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 455026 | 718602 | 732011 | 906326 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 2,4,5-Trichlorophenol | ANT | Ave | | 23339 | 48144 | 87512 | 224386 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 465979 | 695713 | 784698 | 976766 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 1,1'-Biphenyl | ANT | Ave | 18070 | 96312 | 175164 | 334344 | 838645 | 0.100 | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 1750793 | 2716043 | 2934076 | 3644981 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 1,2,3,4 -Tetrachlorobenzene | ANT | Ave | | 35627 | 66457 | 122896 | 316757 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 679897 | 1046976 | 1133117 | 1408401 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 2-Chloronaphthalene | ANT | Ave | 13686 | 73296 | 138278 | 254359 | 650437 | 0.100 | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 1365864 | 2103673 | 2255902 | 2821336 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 4,6-Dinitro-2-methylphenol | PHN | Ave | | +++++ | 23767 | 52416 | 152772 | | +++++ | 1.00 | 2.00 | 5.00 |
| | | | 320207 | 516332 | 548422 | 682713 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 2-Nitroaniline | ANT | Ave | | 31015 | 57638 | 110559 | 285959 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 590097 | 920772 | 971673 | 1205601 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| Dimethyl phthalate | ANT | Ave | | 85341 | 157778 | 297585 | 763626 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 1606215 | 2473182 | 2635126 | 3245655 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 2,6-Dinitrotoluene | ANT | Ave | | 17725 | 33598 | 68542 | 177265 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 382091 | 595541 | 628574 | 777738 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 1,2-Dinitrobenzene | ANT | Ave | | 8757 | 17741 | 34336 | 91841 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 189879 | 298615 | 321167 | 395054 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| Acenaphthylene | ANT | Ave | 22357 | 118955 | 226976 | 426626 | 1090167 | 0.100 | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 2297282 | 3533944 | 3784320 | 4698037 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 3-Nitroaniline | ANT | Ave | | 19690 | 38897 | 78900 | 198121 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 410362 | 641308 | 679100 | 833279 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| Acenaphthene | ANT | Ave | 13403 | 76397 | 139043 | 260506 | 667716 | 0.100 | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 1409544 | 2160352 | 2300796 | 2872293 | | 10.0 | 15.0 | 20.0 | 25.0 | |

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-14408-1 Analy Batch No.: 56877

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/06/2012 11:13 Calibration End Date: 09/06/2012 13:49 Calibration ID: 11220

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (NG/UL) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 |
| 4-Nitrophenol | ANT | Ave | 260031 | 12145<br>406602 | 26061<br>445568 | 50626<br>546942 | 133954 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 2,4-Dinitrotoluene | ANT | Ave | 516303 | 24154<br>805779 | 47428<br>855999 | 90816<br>1050745 | 245880 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Dibenzofuran | ANT | Ave | 20040<br>1986790 | 107417<br>3066119 | 193420<br>3278305 | 370151<br>4044561 | 938582 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Diethyl phthalate | ANT | Ave | 1595115 | 82788<br>2467369 | 155145<br>2616144 | 289531<br>3243054 | 757979 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 4-Chlorophenyl phenyl ether | ANT | Ave | 804738 | 41180<br>1263720 | 76667<br>1357353 | 145319<br>1655724 | 379756 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 4-Nitroaniline | ANT | Ave | 441672 | 20629<br>684675 | 41867<br>730213 | 80411<br>916964 | 208109 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Fluorene | ANT | Ave | 15976<br>1685696 | 87662<br>2588039 | 163315<br>2729287 | 309537<br>3398566 | 789674 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| N-Nitrosodiphenylamine | PHN | Ave | 1220312 | 63414<br>1884534 | 116230<br>2002299 | 216005<br>2478537 | 547948 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 1,2-Diphenylhydrazine(as Azobenzene) | PHN | Ave | 2355794 | 129067<br>3623759 | 240996<br>3863452 | 446405<br>4807854 | 1139676 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Azobenzene | PHN | Ave | 2355704 | 129067<br>3624350 | 242286<br>3862905 | 446687<br>4807851 | 1140074 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 4-Bromophenyl phenyl ether | PHN | Ave | 449463 | 22773<br>699234 | 41529<br>751527 | 81663<br>933776 | 208245 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Hexachlorobenzene | PHN | Ave | 3872<br>429279 | 21395<br>668803 | 38446<br>711332 | 75042<br>885739 | 192190 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Atrazine | PHN | Ave | 410916 | 21126<br>635294 | 41248<br>670348 | 77019<br>821919 | 194702 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Pentachlorophenol | PHN | Qua | 625384 | 18246<br>1040503 | 48879<br>1094390 | 94490<br>1401647 | 286553 | 20.0 | 1.00<br>30.0 | 2.00<br>40.0 | 4.00<br>50.0 | 10.0 |
| Phenanthrene | PHN | Ave | 23723<br>2394261 | 126329<br>3711598 | 234322<br>3984519 | 438547<br>4889276 | 1122212 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Anthracene | PHN | Ave | 23582<br>2501232 | 127464<br>3895930 | 239438<br>4173990 | 456709<br>5161355 | 1179140 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Carbazole | PHN | Ave | 2252290 | 116715<br>3509318 | 219022<br>3733503 | 409981<br>4579268 | 1051042 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Di-n-butyl phthalate | PHN | Ave | 2734832 | 136252<br>4262096 | 258344<br>4549321 | 482149<br>5561764 | 1285803 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Fluoranthene | PHN | Ave | 24530<br>2671683 | 131798<br>4170466 | 251389<br>4427146 | 480053<br>5458190 | 1228325 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Benzidine | CRY | Ave | 1433709 | 66374<br>2225058 | 133388<br>2343491 | 270603<br>2775597 | 681515 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Pyrene | CRY | Ave | 25434<br>2746796 | 140970<br>4277543 | 262950<br>4548221 | 500932<br>5642079 | 1259318 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-14408-1 Analy Batch No.: 56877

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/06/2012 11:13 Calibration End Date: 09/06/2012 13:49 Calibration ID: 11220

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (NG/UL) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 |
| Butyl benzyl phthalate | CRY | Ave | 1207712 | 56449<br>1868847 | 113668<br>1964394 | 218917<br>2470869 | 571774 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 3,3'-Dimethoxybenzidine | CRY | Ave | 692688 | 27002<br>1116775 | 59131<br>1191531 | 116075<br>1460678 | 319384 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Bis(2-ethylhexyl) phthalate | CRY | Ave | 1684205 | 79329<br>2593658 | 156713<br>2743125 | 297088<br>3405235 | 792225 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 4,4'-Methylene bis(2-chloroaniline) | CRY | Ave | 539491 | 23546<br>830594 | 47734<br>877217 | 94394<br>1102210 | 244886 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 3,3'-Dichlorobenzidine | CRY | Ave | 983524 | 45199<br>1553119 | 89509<br>1646297 | 169632<br>2021461 | 445246 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Benzo[a]anthracene | CRY | Ave | 26405<br>2701251 | 140223<br>4229895 | 263514<br>4327109 | 469165<br>5824965 | 1217942 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Chrysene | CRY | Ave | 23979<br>2390081 | 123536<br>3802785 | 226172<br>4036567 | 437514<br>4827988 | 1101409 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Di-n-octyl phthalate | PRY | Ave | 2849640 | 114335<br>4512968 | 242887<br>4678127 | 489992<br>5894890 | 1344725 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Benzo[b]fluoranthene | PRY | Ave | 22461<br>2760781 | 123333<br>4312843 | 250925<br>4487831 | 490408<br>5906433 | 1288837 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Benzo[k]fluoranthene | PRY | Ave | 20853<br>2383206 | 116321<br>3730499 | 219119<br>3928795 | 399833<br>4727818 | 1022888 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Benzo[a]pyrene | PRY | Ave | 19285<br>2335867 | 104938<br>3636440 | 207658<br>3799037 | 387613<br>4783307 | 1045060 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Indeno[1,2,3-cd]pyrene | PRY | Ave | 17559<br>2469446 | 110194<br>3870977 | 212916<br>4051072 | 425759<br>5075560 | 1117405 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Dibenzo(a,h)anthracene | PRY | Ave | 14639<br>2061451 | 87450<br>3237038 | 174986<br>3393292 | 350801<br>4301300 | 936214 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Benzo[g,h,i]perylene | PRY | Ave | 15546<br>2050559 | 92677<br>3210740 | 177916<br>3347859 | 351062<br>4173853 | 923625 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 2-Fluorophenol (Surr) | DCB | Ave | 780891 | 41241<br>1167311 | 79201<br>1233417 | 149837<br>1615457 | 376587 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Phenol-d5 (Surr) | DCB | Ave | 1080801 | 58664<br>1645372 | 111014<br>1789582 | 209589<br>2230887 | 531734 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Nitrobenzene-d5 (Surr) | NPT | Ave | 11917<br>1183051 | 63981<br>1785024 | 121800<br>1931810 | 228666<br>2442218 | 583093 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 2-Fluorobiphenyl (Surr) | ANT | Ave | 15658<br>1624557 | 85547<br>2519452 | 162749<br>2694248 | 303503<br>3347310 | 780527 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 2,4,6-Tribromophenol (Surr) | ANT | Ave | 185781 | 8668<br>295119 | 15549<br>320738 | 32495<br>395523 | 84839 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Terphenyl-d14 (Surr) | CRY | Ave | 15155<br>1764452 | 86078<br>2760486 | 161522<br>2926421 | 312617<br>3678727 | 802250 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-14408-1 Analy Batch No.: 56877

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/06/2012 11:13 Calibration End Date: 09/06/2012 13:49 Calibration ID: 11220

Curve Type Legend:

| |
|---|
| Ave = Average ISTD |
| Qua = Quadratic ISTD |

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-14408-1

SDG No.:

Lab Sample ID: ICV 240-56877/11  Calibration Date: 09/06/2012 14:36

Instrument ID: A4HP9  Calib Start Date: 09/06/2012 11:13

GC Column: RXI-5SILMS  ID: 0.45(mm)  Calib End Date: 09/06/2012 13:49

Lab File ID: 20906011.D  Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | Ave | 0.7969 | 0.8107 | | 10.2 | 10.0 | 1.7 | 30.0 |
| N-Nitrosodimethylamine | Ave | 1.429 | 1.434 | | 10.0 | 10.0 | 0.4 | 30.0 |
| Pyridine | Ave | 2.200 | 2.131 | | 9.68 | 10.0 | -3.2 | 30.0 |
| Ethyl methacrylate | Ave | 1.956 | 1.875 | | 9.59 | 10.0 | -4.1 | 30.0 |
| 3-Chloropropionitrile | Ave | 0.8984 | 0.8742 | | 9.73 | 10.0 | -2.7 | 30.0 |
| Malononitrile | Ave | 2.478 | 2.371 | | 9.57 | 10.0 | -4.3 | 30.0 |
| Benzaldehyde | Qua | | 1.293 | 0.0100 | 9.96 | 10.0 | -0.4 | 30.0 |
| Phenol | Ave | 2.266 | 2.158 | 0.8000 | 9.52 | 10.0 | -4.8 | 30.0 |
| Aniline | Ave | 2.885 | 2.748 | | 9.52 | 10.0 | -4.8 | 30.0 |
| Bis(2-chloroethyl)ether | Ave | 1.854 | 1.720 | 0.7000 | 9.28 | 10.0 | -7.2 | 30.0 |
| 2-Chlorophenol | Ave | 1.398 | 1.338 | 0.8000 | 9.57 | 10.0 | -4.3 | 30.0 |
| 1,3-Dichlorobenzene | Ave | 1.561 | 1.485 | | 9.51 | 10.0 | -4.9 | 30.0 |
| 1,4-Dichlorobenzene | Ave | 1.561 | 1.473 | | 9.43 | 10.0 | -5.7 | 30.0 |
| Benzyl alcohol | Ave | 1.101 | 1.050 | | 9.54 | 10.0 | -4.6 | 30.0 |
| 1,2-Dichlorobenzene | Ave | 1.467 | 1.401 | | 9.55 | 10.0 | -4.5 | 30.0 |
| 2-Methylphenol | Ave | 1.545 | 1.483 | 0.7000 | 9.60 | 10.0 | -4.0 | 30.0 |
| 2,2'-oxybis[1-chloropropane] | Ave | 1.825 | 1.747 | | 9.57 | 10.0 | -4.3 | 30.0 |
| 3 & 4 Methylphenol | Ave | 1.629 | 1.572 | | 9.65 | 10.0 | -3.5 | 30.0 |
| N-Nitrosodi-n-propylamine | Ave | 1.553 | 1.491 | 0.5000 | 9.60 | 10.0 | -4.0 | 30.0 |
| Acetophenone | Ave | 2.314 | 2.190 | 0.0100 | 9.47 | 10.0 | -5.3 | 30.0 |
| Hexachloroethane | Ave | 0.6332 | 0.6040 | 0.3000 | 9.54 | 10.0 | -4.6 | 30.0 |
| Nitrobenzene | Ave | 0.5609 | 0.5326 | 0.2000 | 9.49 | 10.0 | -5.1 | 30.0 |
| Isophorone | Ave | 0.9765 | 0.9209 | 0.4000 | 9.43 | 10.0 | -5.7 | 30.0 |
| 2-Nitrophenol | Ave | 0.1900 | 0.1863 | 0.1000 | 9.81 | 10.0 | -1.9 | 30.0 |
| 2,4-Dimethylphenol | Ave | 0.4474 | 0.4262 | 0.2000 | 9.52 | 10.0 | -4.8 | 30.0 |
| 1,3,5-Trichlorobenzene | Ave | 0.3368 | 0.3151 | | 9.36 | 10.0 | -6.4 | 30.0 |
| Bis(2-chloroethoxy)methane | Ave | 0.5289 | 0.4946 | 0.3000 | 9.35 | 10.0 | -6.5 | 30.0 |
| Benzoic acid | Qua | | 0.2111 | | 19.1 | 20.0 | -4.7 | 30.0 |
| 2,4-Dichlorophenol | Ave | 0.2901 | 0.2716 | 0.2000 | 9.36 | 10.0 | -6.4 | 30.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.3283 | 0.3086 | | 9.40 | 10.0 | -6.0 | 30.0 |
| Naphthalene | Ave | 1.052 | 1.005 | 0.7000 | 9.55 | 10.0 | -4.5 | 30.0 |
| 4-Chloroaniline | Ave | 0.4487 | 0.4078 | 0.0100 | 9.09 | 10.0 | -9.1 | 30.0 |
| Hexachlorobutadiene | Ave | 0.1876 | 0.1788 | 0.0100 | 9.53 | 10.0 | -4.7 | 30.0 |
| 1,2,3-Trichlorobenzene | Ave | 0.3046 | 0.2874 | | 9.44 | 10.0 | -5.6 | 30.0 |
| Caprolactam | Ave | 0.1352 | 0.1334 | 0.0100 | 9.86 | 10.0 | -1.4 | 30.0 |
| 4-Chloro-3-methylphenol | Ave | 0.3861 | 0.3692 | 0.2000 | 9.56 | 10.0 | -4.4 | 30.0 |
| 2-Methylnaphthalene | Ave | 0.6801 | 0.6479 | 0.4000 | 9.53 | 10.0 | -4.7 | 30.0 |
| 1-Methylnaphthalene | Ave | 0.6526 | 0.6197 | | 9.50 | 10.0 | -5.0 | 30.0 |
| 1,2,3,5-Tetrachlorobenzene | Ave | 0.5489 | 0.5125 | | 9.34 | 10.0 | -6.6 | 30.0 |
| Hexachlorocyclopentadiene | Ave | 0.3735 | 0.3499 | 0.0500 | 9.37 | 10.0 | -6.3 | 30.0 |
| 2,4,6-Trichlorophenol | Ave | 0.3464 | 0.3169 | 0.2000 | 9.15 | 10.0 | -8.5 | 30.0 |

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-14408-1

SDG No.:

Lab Sample ID: ICV 240-56877/11 Calibration Date: 09/06/2012 14:36

Instrument ID: A4HP9 Calib Start Date: 09/06/2012 11:13

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 09/06/2012 13:49

Lab File ID: 20906011.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 2,4,5-Trichlorophenol | Ave | 0.3640 | 0.3396 | 0.2000 | 9.33 | 10.0 | -6.7 | 30.0 |
| 2,4-Toluene diamine | Qua | | 0.1962 | | 8.42 | 10.0 | -15.8 | 30.0 |
| 1,1'-Biphenyl | Ave | 1.385 | 1.281 | 0.0100 | 9.25 | 10.0 | -7.5 | 30.0 |
| 1,2,3,4 -Tetrachlorobenzene | Ave | 0.5262 | 0.4894 | | 9.30 | 10.0 | -7.0 | 30.0 |
| 2-Chloronaphthalene | Ave | 1.068 | 0.9871 | 0.8000 | 9.24 | 10.0 | -7.6 | 30.0 |
| 2-Nitroaniline | Ave | 0.4603 | 0.4345 | 0.0100 | 9.44 | 10.0 | -5.6 | 30.0 |
| Dimethyl phthalate | Ave | 1.246 | 1.144 | 0.0100 | 9.18 | 10.0 | -8.2 | 30.0 |
| 2,6-Dinitrotoluene | Ave | 0.2867 | 0.2747 | | 9.58 | 10.0 | -4.2 | 30.0 |
| 1,2-Dinitrobenzene | Ave | 0.1454 | 0.1406 | | 9.67 | 10.0 | -3.3 | 30.0 |
| Acenaphthylene | Ave | 1.775 | 1.662 | 0.9000 | 9.36 | 10.0 | -6.4 | 30.0 |
| 3-Nitroaniline | Ave | 0.3164 | 0.2963 | 0.0100 | 9.36 | 10.0 | -6.4 | 30.0 |
| 2,4-Dinitrophenol | Qua | | 0.1887 | 0.0100 | 18.2 | 20.0 | -9.0 | 30.0 |
| Acenaphthene | Ave | 1.089 | 1.007 | 0.9000 | 9.24 | 10.0 | -7.6 | 30.0 |
| 4-Nitrophenol | Ave | 0.2052 | 0.1750 | | 8.53 | 10.0 | -14.7 | 30.0 |
| 2,4-Dinitrotoluene | Ave | 0.3906 | 0.3724 | 0.2000 | 9.53 | 10.0 | -4.7 | 30.0 |
| Dibenzofuran | Ave | 1.546 | 1.429 | 0.8000 | 9.24 | 10.0 | -7.6 | 30.0 |
| 2,3,5,6-Tetrachlorophenol | Ave | 0.3134 | 0.2909 | | 9.28 | 10.0 | -7.2 | 30.0 |
| Diethyl phthalate | Ave | 1.231 | 1.137 | 0.0100 | 9.24 | 10.0 | -7.6 | 30.0 |
| 4-Chlorophenyl phenyl ether | Ave | 0.6219 | 0.5838 | 0.4000 | 9.39 | 10.0 | -6.1 | 30.0 |
| 4-Nitroaniline | Ave | 0.3367 | 0.3225 | 0.0100 | 9.58 | 10.0 | -4.2 | 30.0 |
| Fluorene | Ave | 1.288 | 1.201 | 0.9000 | 9.32 | 10.0 | -6.8 | 30.0 |
| 4,6-Dinitro-2-methylphenol | Ave | 0.1465 | 0.1379 | 0.0100 | 9.41 | 10.0 | -5.9 | 30.0 |
| N-Nitrosodiphenylamine | Ave | 0.5656 | 0.5254 | 0.0100 | 9.29 | 10.0 | -7.1 | 30.0 |
| 1,2-Diphenylhydrazine(as Azobenzene) | Ave | 1.130 | 1.015 | | 8.99 | 10.0 | -10.1 | 30.0 |
| Azobenzene | Ave | 1.130 | 1.016 | | 8.99 | 10.0 | -10.1 | 30.0 |
| 4-Bromophenyl phenyl ether | Ave | 0.2097 | 0.1933 | 0.1000 | 9.22 | 10.0 | -7.8 | 30.0 |
| Hexachlorobenzene | Ave | 0.1956 | 0.1810 | 0.1000 | 9.25 | 10.0 | -7.5 | 30.0 |
| Atrazine | Ave | 0.1936 | 0.1767 | 0.0100 | 9.13 | 10.0 | -8.7 | 30.0 |
| Pentachlorophenol | Qua | | 0.1341 | 0.0500 | 18.1 | 20.0 | -9.4 | 30.0 |
| Phenanthrene | Ave | 1.130 | 1.027 | 0.7000 | 9.09 | 10.0 | -9.1 | 30.0 |
| Anthracene | Ave | 1.169 | 1.079 | 0.7000 | 9.23 | 10.0 | -7.7 | 30.0 |
| Carbazole | Ave | 1.058 | 0.9583 | 0.0100 | 9.06 | 10.0 | -9.4 | 30.0 |
| Di-n-butyl phthalate | Ave | 1.270 | 1.163 | 0.0100 | 9.15 | 10.0 | -8.5 | 30.0 |
| Fluoranthene | Ave | 1.231 | 1.134 | 0.6000 | 9.21 | 10.0 | -7.9 | 30.0 |
| Benzidine | Ave | 0.6390 | 0.5773 | | 9.03 | 10.0 | -9.7 | 30.0 |
| Pyrene | Ave | 1.237 | 1.130 | 0.6000 | 9.14 | 10.0 | -8.6 | 30.0 |
| Butyl benzyl phthalate | Ave | 0.5396 | 0.4916 | 0.0100 | 9.11 | 10.0 | -8.9 | 30.0 |
| 3,3'-Dimethoxybenzidine | Ave | 0.3013 | 0.2817 | | 9.35 | 10.0 | -6.5 | 30.0 |
| Bis(2-ethylhexyl) phthalate | Ave | 0.7474 | 0.6834 | 0.0100 | 9.14 | 10.0 | -8.6 | 30.0 |
| 4,4'-Methylene bis(2-chloroaniline) | Ave | 0.2349 | 0.2202 | | 9.37 | 10.0 | -6.3 | 30.0 |

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-14408-1

SDG No.:

Lab Sample ID: ICV 240-56877/11  Calibration Date: 09/06/2012 14:36

Instrument ID: A4HP9  Calib Start Date: 09/06/2012 11:13

GC Column: RXI-5SILMS  ID: 0.45(mm)  Calib End Date: 09/06/2012 13:49

Lab File ID: 20906011.D  Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 3,3'-Dichlorobenzidine | Ave | 0.4346 | 0.4022 | 0.0100 | 9.25 | 10.0 | -7.5 | 30.0 |
| Benzo[a]anthracene | Ave | 1.222 | 1.142 | 0.8000 | 9.35 | 10.0 | -6.5 | 30.0 |
| Chrysene | Ave | 1.090 | 0.9417 | 0.7000 | 8.64 | 10.0 | -13.6 | 30.0 |
| Di-n-octyl phthalate | Ave | 1.512 | 1.399 | 0.0100 | 9.25 | 10.0 | -7.5 | 30.0 |
| Benzo[b]fluoranthene | Ave | 1.474 | 1.361 | 0.7000 | 9.23 | 10.0 | -7.7 | 30.0 |
| Benzo[k]fluoranthene | Ave | 1.266 | 1.154 | 0.7000 | 9.11 | 10.0 | -8.9 | 30.0 |
| Benzo[a]pyrene | Ave | 1.224 | 1.133 | 0.7000 | 9.25 | 10.0 | -7.5 | 30.0 |
| Dibenzo(a,h)anthracene | Ave | 1.064 | 0.999 | 0.4000 | 9.39 | 10.0 | -6.1 | 30.0 |
| Indeno[1,2,3-cd]pyrene | Ave | 1.282 | 1.207 | 0.5000 | 9.42 | 10.0 | -5.8 | 30.0 |
| Benzo[g,h,i]perylene | Ave | 1.069 | 0.9872 | 0.5000 | 9.23 | 10.0 | -7.7 | 30.0 |
| 2-Fluorophenol (Surr) | Ave | 1.472 | 1.407 | | 9.55 | 10.0 | -4.5 | 30.0 |
| Phenol-d5 (Surr) | Ave | 2.073 | 1.993 | | 9.61 | 10.0 | -3.9 | 30.0 |
| Nitrobenzene-d5 (Surr) | Ave | 0.5697 | 0.5415 | | 9.51 | 10.0 | -4.9 | 30.0 |
| 2-Fluorobiphenyl (Surr) | Ave | 1.264 | 1.170 | | 9.25 | 10.0 | -7.5 | 30.0 |
| 2,4,6-Tribromophenol (Surr) | Ave | 0.1402 | 0.1334 | | 9.52 | 10.0 | -4.8 | 30.0 |
| Terphenyl-d14 (Surr) | Ave | 0.7790 | 0.7173 | | 9.21 | 10.0 | -7.9 | 30.0 |

FORM VIII

GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-14408-1

SDG No.:

Sample No.: STD6 240-56877/10 Date Analyzed: 09/06/2012 13:49

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 20906010.D Heated Purge: (Y/N) N

Calibration ID: 11220

| | | DCB | | NPT | | ANT | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | | 216005 | 3.85 | 853119 | 4.81 | 528765 | 6.10 |
| UPPER LIMIT | | 432010 | 4.35 | 1706238 | 5.31 | 1057530 | 6.60 |
| LOWER LIMIT | | 108003 | 3.35 | 426560 | 4.31 | 264383 | 5.60 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| ICV 240-56877/11 | | 257431 | 3.85 | 1036701 | 4.81 | 650765 | 6.11 |
| MB 240-55629/14-A | | 170227 | 3.84 | 660165 | 4.81 | 419099 | 6.10 |
| LCS 240-55629/15-A | | 161344 | 3.85 | 655983 | 4.80 | 414445 | 6.10 |
| 240-14408-2 | MT-MW09S-082112 | 158219 | 3.84 | 644148 | 4.81 | 398875 | 6.10 |
| 240-14408-3 | MT-MW11S-082112 | 175888 | 3.85 | 705362 | 4.80 | 442562 | 6.10 |
| 240-14408-4 | MT-MW12S-082112 | 146559 | 3.85 | 579664 | 4.80 | 364262 | 6.10 |

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270D

FORM VIII

GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-14408-1

SDG No.:

Sample No.: STD6 240-56877/10 Date Analyzed: 09/06/2012 13:49

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 20906010.D Heated Purge: (Y/N) N

Calibration ID: 11220

| | | PHN | | CRY | | PRY | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | | 880859 | 7.19 | 914424 | 9.17 | 755962 | 10.56 |
| UPPER LIMIT | | 1761718 | 7.69 | 1828848 | 9.67 | 1511924 | 11.06 |
| LOWER LIMIT | | 440430 | 6.69 | 457212 | 8.67 | 377981 | 10.06 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| ICV 240-56877/11 | | 1094416 | 7.20 | 1142381 | 9.23 | 948282 | 10.63 |
| MB 240-55629/14-A | | 683551 | 7.19 | 723026 | 9.15 | 578419 | 10.54 |
| LCS 240-55629/15-A | | 687772 | 7.19 | 742661 | 9.15 | 611824 | 10.53 |
| 240-14408-2 | MT-MW09S-082112 | 690291 | 7.19 | 727734 | 9.15 | 611220 | 10.54 |
| 240-14408-3 | MT-MW11S-082112 | 744374 | 7.19 | 784038 | 9.14 | 656310 | 10.53 |
| 240-14408-4 | MT-MW12S-082112 | 597454 | 7.19 | 639465 | 9.15 | 550491 | 10.54 |

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270D

**SAMPLE ID** MT-MW09S-082112

| SAMPLE CALC IS AREA | DILUTION | COMPOUND OF INTEREST | IS AMOUNT (NG) | Final Extract Volume (UL) | AVE RRF | CONCENTRATION PPB |
|---|---|---|---|---|---|---|
| 644148 | 1 | 19103 | 4 | 2000 | 0.1352 | 1.75 |
| | | | Amt. inj | Sample Volume (ML) | | |
| | | | 1 | 1000 | | |

Caprolactum = 1.7 ug/L

TestAmerica Laboratories
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Ncchrom\ChromData\A4HP9\20120906-12973.b\20906024.D | | |
| Lims ID: | 240-14408-I-2-A | Client ID: | MT-MW09S-082112 |
| Inject. Date: | 06-Sep-2012 18:52:30 | Dil. Factor: | 1.0000 |
| Sample Type: | Client | | |
| Sample ID: | 240-0012973-024 | | |
| Misc. Info.: | 240-14408-I-2-A =240-14408-I-2-A | | |
| Operator: | 001574 | Instrument ID: | A4HP9 |
| Vol. Injected: | 1.0000 | ALS Bottle#: | 24 |
| Lims Batch ID: | 56877 | Lims Sample ID: | 24 |
| Detector: | MS SCAN | | |
| Method: | \\Ncchrom\ChromData\A4HP9\20120906-12973.b\8270 _9.m | | |
| Last Update: | 07-Sep-2012 09:48:47 | Calib Date: | 06-Sep-2012 17:14:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Ncchrom\ChromData\A4HP9\20120906-12973.b\20906019.D | | |
| Limit Group: | MSS 8270D ICAL | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Process Host: | XAWRK021 | | |
| First Level Reviewer: ulmanm | | Date: | 07-Sep-2012 09:39:02 |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ng/ul | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Dichlorobenzene-d4 | 152 | 3.843 | 3.844 | -0.001 | 95 | 158219 | 4.00 | |
| * 2 Naphthalene-d8 | 136 | 4.805 | 4.805 | 0.0 | 99 | 644148 | 4.00 | |
| * 3 Acenaphthene-d10 | 164 | 6.103 | 6.103 | 0.0 | 86 | 398875 | 4.00 | |
| * 4 Phenanthrene-d10 | 188 | 7.187 | 7.188 | -0.001 | 98 | 690291 | 4.00 | |
| * 5 Chrysene-d12 | 240 | 9.148 | 9.175 | -0.027 | 76 | 727734 | 4.00 | |
| * 6 Perylene-d12 | 264 | 10.542 | 10.575 | -0.033 | 92 | 611220 | 4.00 | |
| $ 7 2-Fluorophenol | 112 | 2.844 | 2.849 | -0.005 | 94 | 624043 | 10.7 | |
| $ 8 Phenol-d5 | 99 | 3.528 | 3.528 | 0.0 | 0 | 905568 | 11.0 | |
| $ 9 Nitrobenzene-d5 | 82 | 4.255 | 4.259 | -0.004 | 84 | 607219 | 6.62 | |
| $ 10 2-Fluorobiphenyl (Surr) | 172 | 5.590 | 5.590 | 0.0 | 99 | 835509 | 6.63 | |
| $ 11 2,4,6-Tribromophenol | 330 | 6.680 | 6.679 | 0.001 | 89 | 179373 | 12.8 | |
| $ 12 Terphenyl-d14 | 244 | 8.325 | 8.335 | -0.010 | 98 | 619081 | 4.37 | |
| 25 1,4-Dioxane | 88 | | 1.743 | | | | | 9 |
| 26 N-Nitrosodimethylamine | 74 | | 1.920 | | | | | |
| 41 Benzaldehyde | 77 | | 3.517 | | | | | 9 |
| 43 Phenol | 94 | | 3.538 | | | | | 9 |
| 69 Bis(2-chloroethyl)ether | 93 | | 3.624 | | | | | 9 |
| 46 2-Chlorophenol | 128 | | 3.688 | | | | | |
| 51 2-Methylphenol | 108 | | 4.003 | | | | | 9 |
| 53 2,2'-oxybis[1-chloropropane] | 45 | | 4.030 | | | | | 9 |
| 21 3 & 4 Methylphenol | 108 | | 4.115 | | | | | |
| 57 N-Nitrosodi-n-propylamine | 70 | | 4.131 | | | | | 9 |
| 58 Acetophenone | 105 | | 4.142 | | | | | |
| 61 Hexachloroethane | 117 | | 4.243 | | | | | |
| 62 Nitrobenzene | 77 | | 4.275 | | | | | 9 |
| 64 Isophorone | 82 | | 4.446 | | | | | |
| 66 2-Nitrophenol | 139 | | 4.516 | | | | | |
| 65 2,4-Dimethylphenol | 107 | | 4.521 | | | | | 9 |
| 70 Bis(2-chloroethoxy)methane | 93 | | 4.591 | | | | | 9 |
| 73 2,4-Dichlorophenol | 162 | | 4.687 | | | | | |
| 75 Naphthalene | 128 | | 4.826 | | | | | 9 |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ng/ul | Flags |
|---|---|---|---|---|---|---|---|---|
| 76 4-Chloroaniline | 127 | | 4.847 | | | | | 9 |
| 79 Hexachlorobutadiene | 225 | | 4.911 | | | | | |
| 84 Caprolactam | 113 | 5.093 | 5.109 | -0.016 | 89 | 19103 | 0.8772 | |
| 86 4-Chloro-3-methylphenol | 107 | | 5.189 | | | | | 9 |
| 87 2-Methylnaphthalene | 142 | | 5.333 | | | | | 9 |
| 89 Hexachlorocyclopentadiene | 237 | | 5.451 | | | | | |
| 92 2,4,6-Trichlorophenol | 196 | | 5.531 | | | | | |
| 93 2,4,5-Trichlorophenol | 196 | | 5.563 | | | | | |
| 98 1,1'-Biphenyl | 154 | | 5.670 | | | | | |
| 100 2-Chloronaphthalene | 162 | | 5.696 | | | | | |
| 102 2-Nitroaniline | 65 | | 5.755 | | | | | 9 |
| 105 Dimethyl phthalate | 163 | | 5.873 | | | | | 9 |
| 107 2,6-Dinitrotoluene | 165 | | 5.921 | | | | | 9 |
| 109 Acenaphthylene | 152 | | 6.006 | | | | | 9 |
| 110 3-Nitroaniline | 138 | | 6.054 | | | | | 9 |
| 111 2,4-Dinitrophenol | 184 | | 6.124 | | | | | |
| 112 Acenaphthene | 153 | | 6.129 | | | | | |
| 113 4-Nitrophenol | 109 | | 6.150 | | | | | 9 |
| 114 2,4-Dinitrotoluene | 165 | | 6.220 | | | | | |
| 116 Dibenzofuran | 168 | | 6.252 | | | | | 9 |
| 121 Diethyl phthalate | 149 | | 6.375 | | | | | 9 |
| 123 4-Chlorophenyl phenyl ether | 204 | | 6.482 | | | | | |
| 125 4-Nitroaniline | 138 | | 6.498 | | | | | |
| 126 Fluorene | 166 | | 6.503 | | | | | 9 |
| 128 4,6-Dinitro-2-methylphenol | 198 | | 6.519 | | | | | |
| 131 N-Nitrosodiphenylamine | 169 | | 6.567 | | | | | 9 |
| 139 4-Bromophenyl phenyl ether | 248 | | 6.845 | | | | | |
| 141 Hexachlorobenzene | 284 | | 6.914 | | | | | |
| 142 Atrazine | 200 | | 6.930 | | | | | |
| 143 Pentachlorophenol | 266 | | 7.048 | | | | | |
| 148 Phenanthrene | 178 | | 7.208 | | | | | 9 |
| 149 Anthracene | 178 | | 7.246 | | | | | |
| 151 Carbazole | 167 | | 7.347 | | | | | 9 |
| 154 Di-n-butyl phthalate | 149 | 7.551 | 7.555 | -0.004 | 84 | 41978 | 0.1915 | |
| 159 Fluoranthene | 202 | | 8.079 | | | | | 9 |
| 161 Pyrene | 202 | | 8.255 | | | | | |
| 168 Butyl benzyl phthalate | 149 | | 8.672 | | | | | |
| 173 Bis(2-ethylhexyl) phthalate | 149 | 9.073 | 9.089 | -0.016 | 95 | 105845 | 0.7784 | |
| 175 3,3'-Dichlorobenzidine | 252 | | 9.115 | | | | | |
| 177 Benzo[a]anthracene | 228 | | 9.158 | | | | | 9 |
| 178 Chrysene | 228 | | 9.190 | | | | | 9 |
| 180 Di-n-octyl phthalate | 149 | | 9.618 | | | | | 9 |
| 182 Benzo[b]fluoranthene | 252 | | 10.136 | | | | | 9 |
| 183 Benzo[k]fluoranthene | 252 | | 10.157 | | | | | 9 |
| 184 Benzo[a]pyrene | 252 | | 10.504 | | | | | 9 |
| 188 Indeno[1,2,3-cd]pyrene | 276 | | 12.075 | | | | | |
| 189 Dibenz(a,h)anthracene | 278 | | 12.075 | | | | | |
| 190 Benzo[g,h,i]perylene | 276 | | 12.529 | | | | | |

Client: Tetra Tech, Inc

Job Number: 240-14408-1

## Surrogate Recovery Report

**8015C Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)**

**Client Matrix: Water**

| Lab Sample ID | Client Sample ID | TFT1 %Rec |
|---|---|---|
| 240-14408-2 | MT-MW09S-082112 | 91 |
| 240-14408-3 | MT-MW11S-082112 | 92 |
| 240-14408-4 | MT-MW12S-082112 | 92 |
| MB 240-55708/6 | | 92 |
| LCS 240-55708/7 | | 105 |

| Surrogate | Acceptance Limits |
|---|---|
| TFT = Trifluorotoluene (Surr) | 10-150 |

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-14408-1

SDG No.:

Lab Sample ID: MB 240-55708/6

Matrix: Water Date Extracted: 08/26/2012 14:50

Lab File ID:(1) YF082606.D Lab File ID:(2)

Date Analyzed:(1) 08/26/2012 14:50 Date Analyzed:(2)

Instrument ID:(1) YPID Instrument ID:(2)

GC Column:(1) RTX-VRX ID: 0.45(mm) GC Column:(2) ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | DATE ANALYZED 1 | DATE ANALYZED 2 |
|---|---|---|---|
| | LCS 240-55708/7 | 08/26/2012 15:29 | |
| MT-MW09S-082112 | 240-14408-2 | 08/26/2012 21:14 | |
| MT-MW11S-082112 | 240-14408-3 | 08/26/2012 21:53 | |
| MT-MW12S-082112 | 240-14408-4 | 08/26/2012 22:34 | |

Client: Tetra Tech, Inc

Job Number: 240-14408-1

**Method Blank - Batch: 240-55708**

**Method: 8015C**
**Preparation: 5030B**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | MB 240-55708/6 | Analysis Batch: | 240-55708 | Instrument ID: | YPID |
| Client Matrix: | Water | Prep Batch: | N/A | Lab File ID: | YF082606.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 08/26/2012 1450 | Units: | ug/L | Final Weight/Volume: | 5 mL |
| Prep Date: | 08/26/2012 1450 | | | Injection Volume: | |
| Leach Date: | N/A | | | Column ID: | PRIMARY |

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C6-C10) | 43.7 | J | 25 | 100 |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| Trifluorotoluene (Surr) | 92 | 10 - 150 |

**Lab Control Sample - Batch: 240-55708**

**Method: 8015C**
**Preparation: 5030B**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | LCS 240-55708/7 | Analysis Batch: | 240-55708 | Instrument ID: | YPID |
| Client Matrix: | Water | Prep Batch: | N/A | Lab File ID: | YF082607.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 08/26/2012 1529 | Units: | ug/L | Final Weight/Volume: | 5 mL |
| Prep Date: | 08/26/2012 1529 | | | Injection Volume: | |
| Leach Date: | N/A | | | Column ID: | PRIMARY |

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C6-C10) | 800 | 936 | 117 | 72 - 140 | |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| Trifluorotoluene (Surr) | 105 | 10 - 150 |

FORM VI
GC VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-14408-1 Analy Batch No.: 54512

SDG No.:

Instrument ID: YPID GC Column: RTX-VRX ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2012 18:36 Calibration End Date: 08/15/2012 22:00 Calibration ID: 10676

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-54512/6 | YF081506.D |
| Level 2 | STD2 240-54512/7 | YF081507.D |
| Level 3 | STD3 240-54512/8 | YF081508.D |
| Level 4 | STD4 240-54512/9 | YF081509.D |
| Level 5 | STD5 240-54512/10 | YF081510.D |
| Level 6 | STD6 240-54512/11 | YF081511.D |

| ANALYTE | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 6 | | | | | RT WINDOW | AVG RT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C6-C10) | 11.760 | 11.760 | 11.760 | 11.760 | 11.760 | 11.760 | | | | | 4.755 - 18.765 | 11.760 |
| C6-C12 | 13.426 | 13.426 | 13.426 | 13.426 | 13.426 | 13.426 | | | | | 4.855 - 21.997 | 13.426 |
| Trifluorotoluene (Surr) | 9.711 | 9.710 | 9.713 | 9.708 | 9.711 | 9.712 | | | | | 9.463 - 9.963 | 9.711 |

FORM VI
GC VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-14408-1 Analy Batch No.: 54512

SDG No.:

Instrument ID: YPID GC Column: RTX-VRX ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2012 18:36 Calibration End Date: 08/15/2012 22:00 Calibration ID: 10676

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-54512/6 | YF081506.D |
| Level 2 | STD2 240-54512/7 | YF081507.D |
| Level 3 | STD3 240-54512/8 | YF081508.D |
| Level 4 | STD4 240-54512/9 | YF081509.D |
| Level 5 | STD5 240-54512/10 | YF081510.D |
| Level 6 | STD6 240-54512/11 | YF081511.D |

| ANALYTE | CF | | | | CURVE TYPE | COEFFICIENT | | | # | MIN CF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 5 | LVL 2<br>LVL 6 | LVL 3 | LVL 4 | | B | M1 | M2 | | | | | | | | |
| Total Petroleum Hydrocarbons (C6-C10) | 183542<br>118119 | 135498<br>128955 | 126511 | 123496 | Ave | | 136019.970 | | | | 18.0 | | 20.0 | | | |
| C6-C12 | 255673<br>133903 | 170408<br>145976 | 149081 | 141314 | Lin | 6701438.48 | 136365.157 | | | | | | | 0.9940 | | 0.9900 |
| Trifluorotoluene (Surr) | 136571<br>165376 | 137906<br>183597 | 145025 | 153818 | Ave | | 153715.733 | | | | 12.0 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-14408-1 Analy Batch No.: 54512

SDG No.:

Instrument ID: YPID GC Column: RTX-VRX ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2012 18:36 Calibration End Date: 08/15/2012 22:00 Calibration ID: 10676

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-54512/6 | YF081506.D |
| Level 2 | STD2 240-54512/7 | YF081507.D |
| Level 3 | STD3 240-54512/8 | YF081508.D |
| Level 4 | STD4 240-54512/9 | YF081509.D |
| Level 5 | STD5 240-54512/10 | YF081510.D |
| Level 6 | STD6 240-54512/11 | YF081511.D |

| ANALYTE | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Total Petroleum Hydrocarbons (C6-C10) | Ave | 18354154<br>206328514 | 27099537 | 50604228 | 98796615 | 141742722 | 100<br>1600 | 200 | 400 | 800 | 1200 |
| C6-C12 | Lin | 25567346<br>233562173 | 34081672 | 59632568 | 113051081 | 160683965 | 100<br>1600 | 200 | 400 | 800 | 1200 |
| Trifluorotoluene (Surr) | Ave | 1365710<br>1835973 | 1379064 | 1450251 | 1538182 | 1653764 | 10.0<br>10.0 | 10.0 | 10.0 | 10.0 | 10.0 |

Curve Type Legend:

Ave = Average
Lin = Linear

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-14408-1

SDG No.:

Lab Sample ID: ICV 240-54512/12 Calibration Date: 08/15/2012 22:40

Instrument ID: YPID Calib Start Date: 08/15/2012 18:36

GC Column: RTX-VRX ID: 0.45(mm) Calib End Date: 08/15/2012 22:00

Lab File ID: YF081512.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C6-C10) | Ave | 136020 | 146461 | | 861 | 800 | 7.7 | 20.0 |
| C6-C12 | Lin | | 171870 | | 959 | 800 | 19.9 | 20.0 |
| Trifluorotoluene (Surr) | Ave | 153716 | 157910 | | 10.3 | 10.0 | 2.7 | 20.0 |

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-14408-1

SDG No.:

Lab Sample ID: ICV 240-54512/12 Calibration Date: 08/15/2012 22:40

Instrument ID: YPID Calib Start Date: 08/15/2012 18:36

GC Column: RTX-VRX ID: 0.45(mm) Calib End Date: 08/15/2012 22:00

Lab File ID: YF081512.D Heated Purge: (Y/N) N

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | TO | FROM |
| Total Petroleum Hydrocarbons (C6-C10) | 11.76 | 4.76 | 18.77 |
| C6-C12 | 13.43 | 4.86 | 22.00 |
| Trifluorotoluene (Surr) | 9.72 | 9.46 | 9.96 |

FORM VIII
GC VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton  Job No.: 240-14408-1

SDG No.:

Sample No.: CCV 240-55708/5  Date Analyzed: 08/26/2012 14:12

Instrument ID: YPID  GC Column: RTX-VRX  ID: 0.45(mm)

Lab File ID (Standard): YF082605.D  Heated Purge: (Y/N) N

Calibration ID: 10676

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

| | | | | TFT RT # | | |
|---|---|---|---|---|---|---|
| CONTINUING CALIBRATION SURROGATE | | | | 9.73 | | |
| UPPER LIMIT | | | | 9.83 | | |
| LOWER LIMIT | | | | 9.63 | | |
| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | LAB FILE ID | | | |
| CCV 240-55708/5 CCVRT | | 08/26/2012 14:12 | YF082605.D | 9.73 | | |
| MB 240-55708/6 | | 08/26/2012 14:50 | YF082606.D | 9.73 | | |
| LCS 240-55708/7 | | 08/26/2012 15:29 | YF082607.D | 9.73 | | |
| CCV 240-55708/15 | | 08/26/2012 20:35 | YF082615.D | 9.73 | | |
| 240-14408-2 | MT-MW09S-082112 | 08/26/2012 21:14 | YF082616.D | 9.73 | | |
| 240-14408-3 | MT-MW11S-082112 | 08/26/2012 21:53 | YF082617.D | 9.73 | | |
| 240-14408-4 | MT-MW12S-082112 | 08/26/2012 22:34 | YF082618.D | 9.72 | | |
| CCV 240-55708/19 | | 08/26/2012 23:14 | YF082619.D | 9.73 | | |

TFT = Trifluorotoluene (Surr)

TFT RT Limit = ± 0.1 minutes of surrogate RT

# Column used to flag values outside QC limits

FORM VIII 8015C

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-14408-1

SDG No.:

Lab Sample ID: CCV 240-55708/5 Calibration Date: 08/26/2012 14:12

Instrument ID: YPID Calib Start Date: 08/15/2012 18:36

GC Column: RTX-VRX ID: 0.45(mm) Calib End Date: 08/15/2012 22:00

Lab File ID: YF082605.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C6-C10) | Ave | 136020 | 130791 | | 769 | 800 | -3.8 | 20.0 |
| C6-C12 | Lin | | 148361 | | 821 | 800 | 2.7 | 20.0 |
| Trifluorotoluene (Surr) | Ave | 153716 | 164106 | | 10.7 | 10.0 | 6.8 | 20.0 |

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-14408-1

SDG No.:

Lab Sample ID: CCV 240-55708/5 Calibration Date: 08/26/2012 14:12

Instrument ID: YPID Calib Start Date: 08/15/2012 18:36

GC Column: RTX-VRX ID: 0.45(mm) Calib End Date: 08/15/2012 22:00

Lab File ID: YF082605.D Heated Purge: (Y/N) N

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | TO | FROM |
| Total Petroleum Hydrocarbons (C6-C10) | 11.78 | 4.80 | 18.73 |
| C6-C12 | 13.44 | 4.90 | 21.97 |
| Trifluorotoluene (Surr) | 9.73 | 9.48 | 9.98 |

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-14408-1

SDG No.:

Lab Sample ID: CCV 240-55708/15 Calibration Date: 08/26/2012 20:35

Instrument ID: YPID Calib Start Date: 08/15/2012 18:36

GC Column: RTX-VRX ID: 0.45(mm) Calib End Date: 08/15/2012 22:00

Lab File ID: YF082615.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C6-C10) | Ave | 136020 | 130178 | | 766 | 800 | -4.3 | 20.0 |
| C6-C12 | Lin | | 147437 | | 816 | 800 | 2.0 | 20.0 |
| Trifluorotoluene (Surr) | Ave | 153716 | 159148 | | 10.4 | 10.0 | 3.5 | 20.0 |

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-14408-1

SDG No.:

Lab Sample ID: CCV 240-55708/15 Calibration Date: 08/26/2012 20:35

Instrument ID: YPID Calib Start Date: 08/15/2012 18:36

GC Column: RTX-VRX ID: 0.45(mm) Calib End Date: 08/15/2012 22:00

Lab File ID: YF082615.D Heated Purge: (Y/N) N

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | TO | FROM |
| Total Petroleum Hydrocarbons (C6-C10) | 11.78 | 4.80 | 18.73 |
| C6-C12 | 13.44 | 4.90 | 21.97 |
| Trifluorotoluene (Surr) | 9.73 | 9.48 | 9.98 |

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-14408-1

SDG No.:

Lab Sample ID: CCV 240-55708/19 Calibration Date: 08/26/2012 23:14

Instrument ID: YPID Calib Start Date: 08/15/2012 18:36

GC Column: RTX-VRX ID: 0.45(mm) Calib End Date: 08/15/2012 22:00

Lab File ID: YF082619.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C6-C10) | Ave | 136020 | 127698 | | 751 | 800 | -6.1 | 20.0 |
| C6-C12 | Lin | | 144527 | | 799 | 800 | -0.2 | 20.0 |
| Trifluorotoluene (Surr) | Ave | 153716 | 154773 | | 10.1 | 10.0 | 0.7 | 20.0 |

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-14408-1

SDG No.:

Lab Sample ID: CCV 240-55708/19 Calibration Date: 08/26/2012 23:14

Instrument ID: YPID Calib Start Date: 08/15/2012 18:36

GC Column: RTX-VRX ID: 0.45(mm) Calib End Date: 08/15/2012 22:00

Lab File ID: YF082619.D Heated Purge: (Y/N) N

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | TO | FROM |
| Total Petroleum Hydrocarbons (C6-C10) | 11.78 | 4.80 | 18.73 |
| C6-C12 | 13.44 | 4.90 | 21.97 |
| Trifluorotoluene (Surr) | 9.73 | 9.48 | 9.98 |

Client: Tetra Tech, Inc

Job Number: 240-14408-1

## Surrogate Recovery Report

**8015C Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)**

**Client Matrix: Water**

| Lab Sample ID | Client Sample ID | C91 %Rec |
|---|---|---|
| 240-14408-2 | MT-MW09S-082112 | 53 |
| 240-14408-3 | MT-MW11S-082112 | 59 |
| 240-14408-4 | MT-MW12S-082112 | 59 |
| MB 240-55631/7-A | | 37 |
| LCS 240-55631/8-A | | 64 |

| Surrogate | Acceptance Limits |
|---|---|
| C9 = n-Nonane | 10-110 |

FORM IV
DIESEL RANGE ORGANICS METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-14408-1

SDG No.:

Lab Sample ID: MB 240-55631/7-A

Matrix: Water Date Extracted: 08/24/2012 11:18

Lab File ID:(1) P6F82805.D Lab File ID:(2)

Date Analyzed:(1) 08/28/2012 13:31 Date Analyzed:(2)

Instrument ID:(1) A2HP6F Instrument ID:(2)

GC Column:(1) RTX-5 ID: 0.53(mm) GC Column:(2) ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | DATE ANALYZED 1 | DATE ANALYZED 2 |
|---|---|---|---|
| | LCS 240-55631/8-A | 08/28/2012 14:02 | |
| MT-MW09S-082112 | 240-14408-2 | 08/28/2012 14:33 | |
| MT-MW11S-082112 | 240-14408-3 | 08/28/2012 15:04 | |
| MT-MW12S-082112 | 240-14408-4 | 08/28/2012 15:35 | |

Client: Tetra Tech, Inc

Job Number: 240-14408-1

**Method Blank - Batch: 240-55631**

**Method: 8015C**
**Preparation: 3520C**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | MB 240-55631/7-A | Analysis Batch: | 240-55969 | Instrument ID: | A2HP6F |
| Client Matrix: | Water | Prep Batch: | 240-55631 | Lab File ID: | P6F82805.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 1000 mL |
| Analysis Date: | 08/28/2012 1331 | Units: | ug/L | Final Weight/Volume: | 5 mL |
| Prep Date: | 08/24/2012 1118 | | | Injection Volume: | 1 uL |
| Leach Date: | N/A | | | Column ID: | PRIMARY |

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C10-C32) | 348 | J | 240 | 500 |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| n-Nonane | 37 | 10 - 110 |

**Lab Control Sample - Batch: 240-55631**

**Method: 8015C**
**Preparation: 3520C**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | LCS 240-55631/8-A | Analysis Batch: | 240-55969 | Instrument ID: | A2HP6F |
| Client Matrix: | Water | Prep Batch: | 240-55631 | Lab File ID: | P6F82806.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 1000 mL |
| Analysis Date: | 08/28/2012 1402 | Units: | ug/L | Final Weight/Volume: | 5 mL |
| Prep Date: | 08/24/2012 1118 | | | Injection Volume: | 1 uL |
| Leach Date: | N/A | | | Column ID: | PRIMARY |

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Diesel | 2500 | 2400 | 96 | 36 - 124 | |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| n-Nonane | 64 | 10 - 110 |

FORM VI
DIESEL RANGE ORGANICS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-14408-1 Analy Batch No.: 52483

SDG No.:

Instrument ID: A2HP6F GC Column: RTX-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2012 13:26 Calibration End Date: 07/30/2012 15:30 Calibration ID: 10355

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-52483/4 | P6F73004.D |
| Level 2 | STD2 240-52483/5 | P6F73005.D |
| Level 3 | STD3 240-52483/6 | P6F73006.D |
| Level 4 | STD4 240-52483/7 | P6F73007.D |
| Level 5 | STD5 240-52483/8 | P6F73008.D |

| ANALYTE | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | | | | | RT WINDOW | AVG RT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel | 9.398 | 9.398 | 9.398 | 9.398 | 9.398 | | | | | | 5.181 - 13.615 | 9.398 |
| n-Nonane | 4.174 | 4.175 | 4.175 | 4.174 | 4.176 | | | | | | 4.124 - 4.224 | 4.175 |

FORM VI
DIESEL RANGE ORGANICS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-14408-1 Analy Batch No.: 52483

SDG No.:

Instrument ID: A2HP6F GC Column: RTX-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2012 13:26 Calibration End Date: 07/30/2012 15:30 Calibration ID: 10355

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-52483/4 | P6F73004.D |
| Level 2 | STD2 240-52483/5 | P6F73005.D |
| Level 3 | STD3 240-52483/6 | P6F73006.D |
| Level 4 | STD4 240-52483/7 | P6F73007.D |
| Level 5 | STD5 240-52483/8 | P6F73008.D |

| ANALYTE | CF | | | | CURVE TYPE | COEFFICIENT | | | # | MIN CF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 5 | LVL 2 | LVL 3 | LVL 4 | | B | M1 | M2 | | | | | | | | |
| Diesel | 198017<br>164866 | 195063 | 182983 | 164938 | Ave | | 181173.338 | | | | 8.8 | | 20.0 | | | |
| n-Nonane | 178972<br>183715 | 194879 | 194900 | 180011 | Ave | | 186495.525 | | | | 4.2 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
DIESEL RANGE ORGANICS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-14408-1 Analy Batch No.: 52483

SDG No.:

Instrument ID: A2HP6F GC Column: RTX-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2012 13:26 Calibration End Date: 07/30/2012 15:30 Calibration ID: 10355

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-52483/4 | P6F73004.D |
| Level 2 | STD2 240-52483/5 | P6F73005.D |
| Level 3 | STD3 240-52483/6 | P6F73006.D |
| Level 4 | STD4 240-52483/7 | P6F73007.D |
| Level 5 | STD5 240-52483/8 | P6F73008.D |

| ANALYTE | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (NG/UL) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Diesel | Ave | 19801734 | 39012577 | 91491572 | 164937593 | 329731459 | 100 | 200 | 500 | 1000 | 2000 |
| n-Nonane | Ave | 1789719 | 3897586 | 9745006 | 18001099 | 36743063 | 10.0 | 20.0 | 50.0 | 100 | 200 |

Curve Type Legend:
Ave = Average

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-14408-1

SDG No.:

Lab Sample ID: ICV 240-52483/9 Calibration Date: 07/30/2012 16:02

Instrument ID: A2HP6F Calib Start Date: 07/30/2012 13:26

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 07/30/2012 15:30

Lab File ID: P6F73009.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Diesel | Ave | 181173 | 183339 | | 506 | 500 | 1.2 | 20.0 |

FORM VII

DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-14408-1

SDG No.:

Lab Sample ID: ICV 240-52483/9 Calibration Date: 07/30/2012 16:02

Instrument ID: A2HP6F Calib Start Date: 07/30/2012 13:26

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 07/30/2012 15:30

Lab File ID: P6F73009.D

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | TO | FROM |
| Diesel | 9.40 | 5.18 | 13.62 |

FORM VIII
DIESEL RANGE ORGANICS ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton  Job No.: 240-14408-1

SDG No.:

Sample No.: CCV 240-55969/4  Date Analyzed: 08/28/2012 13:00

Instrument ID: A2HP6F  GC Column: RTX-5  ID: 0.53(mm)

Lab File ID (Standard): P6F82804.D  Heated Purge: (Y/N) N

Calibration ID: 10355

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

| | | | | C9 RT # | | |
|---|---|---|---|---|---|---|
| CONTINUING CALIBRATION SURROGATE | | | | 4.17 | | |
| UPPER LIMIT | | | | 4.27 | | |
| LOWER LIMIT | | | | 4.07 | | |
| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | LAB FILE ID | | | |
| CCV 240-55969/4 CCVRT | | 08/28/2012 13:00 | P6F82804.D | 4.17 | | |
| MB 240-55631/7-A | | 08/28/2012 13:31 | P6F82805.D | 4.17 | | |
| LCS 240-55631/8-A | | 08/28/2012 14:02 | P6F82806.D | 4.17 | | |
| 240-14408-2 | MT-MW09S-082112 | 08/28/2012 14:33 | P6F82807.D | 4.17 | | |
| 240-14408-3 | MT-MW11S-082112 | 08/28/2012 15:04 | P6F82808.D | 4.17 | | |
| 240-14408-4 | MT-MW12S-082112 | 08/28/2012 15:35 | P6F82809.D | 4.17 | | |
| CCV 240-55969/13 | | 08/28/2012 17:39 | P6F82813.D | 4.17 | | |

C9 = n-Nonane

C9 RT Limit = ± 0.1 minutes of surrogate RT

# Column used to flag values outside QC limits

FORM VIII 8015C

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-14408-1

SDG No.:

Lab Sample ID: CCV 240-55969/4  Calibration Date: 08/28/2012 13:00

Instrument ID: A2HP6F  Calib Start Date: 07/30/2012 13:26

GC Column: RTX-5  ID: 0.53(mm)  Calib End Date: 07/30/2012 15:30

Lab File ID: P6F82804.D  Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Diesel | Ave | 181173 | 183218 | | 506 | 500 | 1.1 | 20.0 |
| n-Nonane | Ave | 186496 | 215459 | | 57.8 | 50.0 | 15.5 | 20.0 |

FORM VII

DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-14408-1

SDG No.:

Lab Sample ID: CCV 240-55969/4 Calibration Date: 08/28/2012 13:00

Instrument ID: A2HP6F Calib Start Date: 07/30/2012 13:26

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 07/30/2012 15:30

Lab File ID: P6F82804.D

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | TO | FROM |
| Diesel | 9.39 | 5.18 | 13.61 |
| n-Nonane | 4.17 | 4.12 | 4.22 |

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-14408-1

SDG No.:

Lab Sample ID: CCV 240-55969/13 Calibration Date: 08/28/2012 17:39

Instrument ID: A2HP6F Calib Start Date: 07/30/2012 13:26

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 07/30/2012 15:30

Lab File ID: P6F82813.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Diesel | Ave | 181173 | 186932 | | 516 | 500 | 3.2 | 20.0 |
| n-Nonane | Ave | 186496 | 221057 | | 59.3 | 50.0 | 18.5 | 20.0 |

FORM VII

DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-14408-1

SDG No.:

Lab Sample ID: CCV 240-55969/13 Calibration Date: 08/28/2012 17:39

Instrument ID: A2HP6F Calib Start Date: 07/30/2012 13:26

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 07/30/2012 15:30

Lab File ID: P6F82813.D

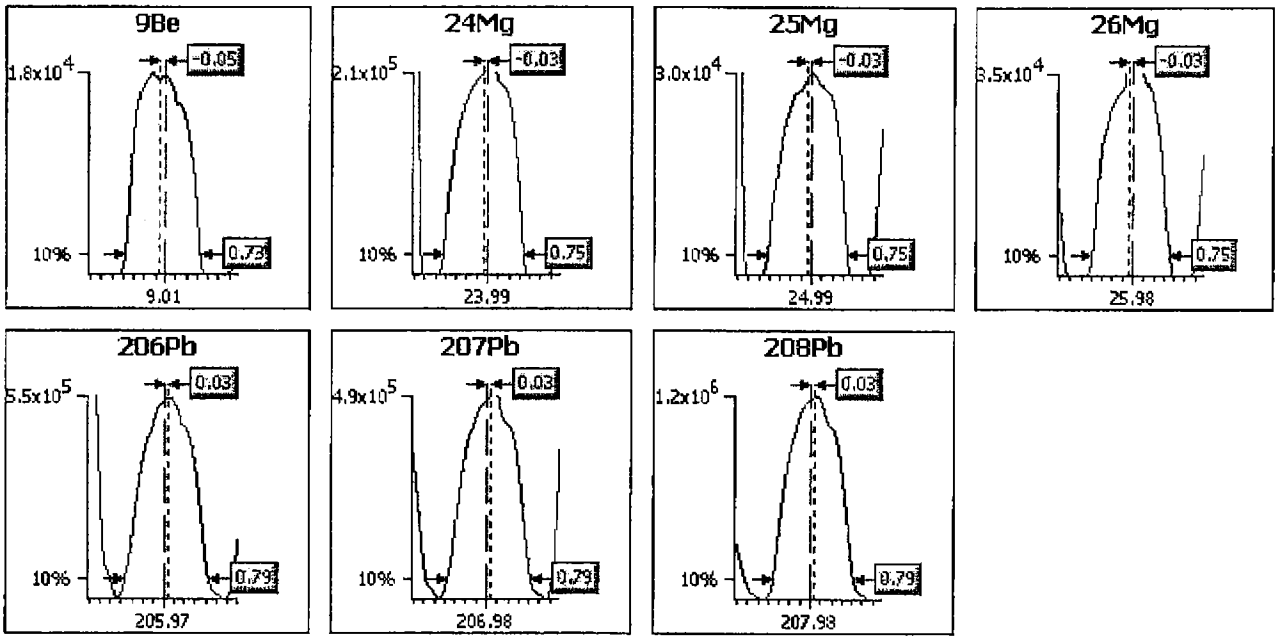
| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | TO | FROM |
| Diesel | 9.39 | 5.18 | 13.61 |
| n-Nonane | 4.17 | 4.12 | 4.22 |

## Performance Report

**Sample details**
Acquired at : 9/6/2012 07:27:23
Report name : STD MODE PERF REPORT [8/11/2009 07:18:25]

**Mass Calibration verification**

**Acquisition parameters**
Sweeps : 10
Dwell : 5.0 mSecs
Point spacing : 0.02 amu
Peak width measured at 10% of the peak maximum




| Analyte | Limits | | | Results | |
|---|---|---|---|---|---|
| | Max. width | Min. width | Max. error | Peak width | Peak error |
| 9Be | 0.85 | 0.65 | 0.10 | 0.73 | -0.05 |
| 24Mg | 0.85 | 0.65 | 0.10 | 0.75 | -0.03 |
| 25Mg | 0.85 | 0.65 | 0.10 | 0.75 | -0.03 |
| 26Mg | 0.85 | 0.65 | 0.10 | 0.75 | -0.03 |
| 206Pb | 0.85 | 0.65 | 0.10 | 0.79 | 0.03 |
| 207Pb | 0.85 | 0.65 | 0.10 | 0.79 | 0.03 |
| 208Pb | 0.85 | 0.65 | 0.10 | 0.79 | 0.03 |

## Experiment Details

| | |
|---|---|
| **Description** | PlasmaLab Template BlankExperiment |
| **Template Filename** | C:\Program Files\Thermo Fisher\PlasmaLab\Templates\TEST AMERICA 6020A_MULTIMODE.tet |
| **Created By User** | martin.nash |
| **Analyte Database** | TA NORTH CANTON MULTIMODE.tea |
| **Creation Timestamp** | 10/10/2007 09:08:48 |
| **Last Edited By** | Upload |
| **Last Edit Timestamp** | 9/6/2012 09:51:16 |
| **Instrument Detector** | Simultaneous |
| **Database Version** | 3,51 |
| **Acquisition Mode** | Unknown |

**Numerical Results report key (text indicates meaning)**

Blue text indicates that cell is a statistic.
Underlining indicates that a data warning flag is set.

Column headings
- No flag
- Semi Quant
- Standard Addition
- Multi Element

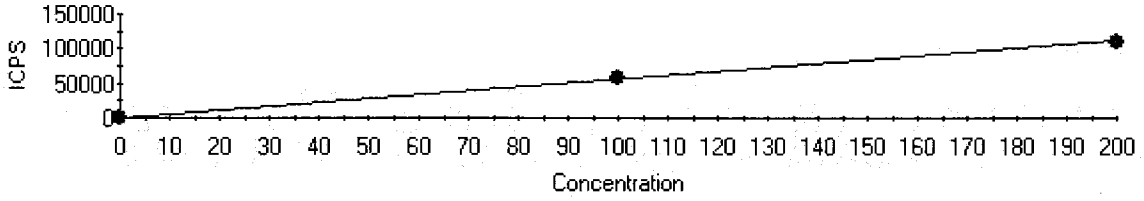
Result cells
- Internal Standard
- Excluded
- QC Warning
- QC Failure

Transient TRA only:
- Peak Not Found
- Manually Edited
- Merged Peak

Data warning flags
I - Invalid calibration
T - Tripped
F - Interference correction failed
M - Result over max
V - Valley integration failed
D - Different method used

## Fully Quant Calibration

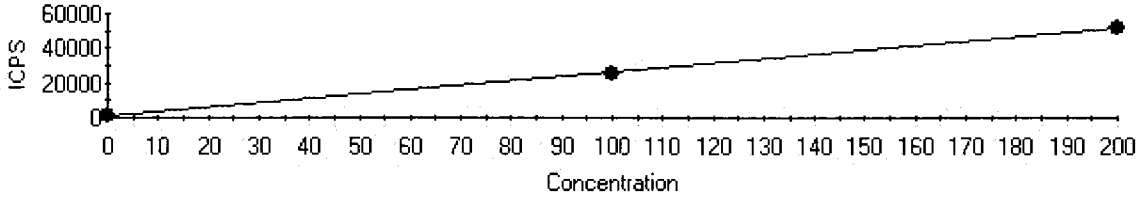
**9Be FQ Block 1**




Intercept CPS=6.595340 Intercept Conc=0.011850
Sensitivity=556.555082 Correlation Coeff=0.999964

| Label | Defined | Measured | Error | Mean CPS | % Error |
|---|---|---|---|---|---|
| ICISM=6020 | 0.000 | 0.000 | 0.000 | 6.60 | 0.00 |
| STD2 | 100.000 | 101.177 | 1.177 | 56317.27 | 1.18 |
| STD3 | 200.000 | 199.411 | 0.589 | 110990.03 | 0.29 |

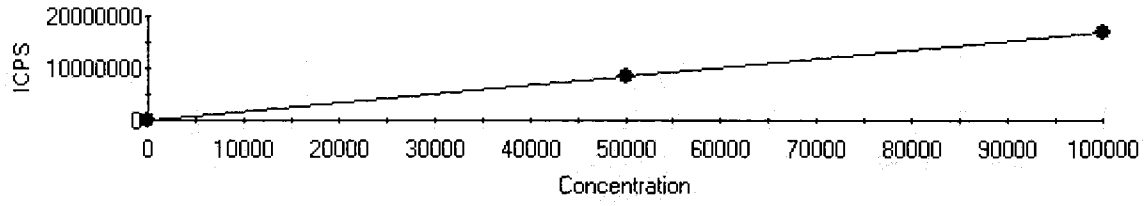
**10B FQ Block 1**




Intercept CPS=605.421899 Intercept Conc=2.385601
Sensitivity=253.781712 Correlation Coeff=0.999511

| Label | Defined | Measured | Error | Mean CPS | % Error |
|---|---|---|---|---|---|
| ICISM=6020 | 0.000 | -0.000 | 0.000 | 605.42 | 0.00 |
| STD2 | 100.000 | 95.616 | 4.384 | 24870.90 | 4.38 |
| STD4 | 200.000 | 202.192 | 2.192 | 51918.11 | 1.10 |

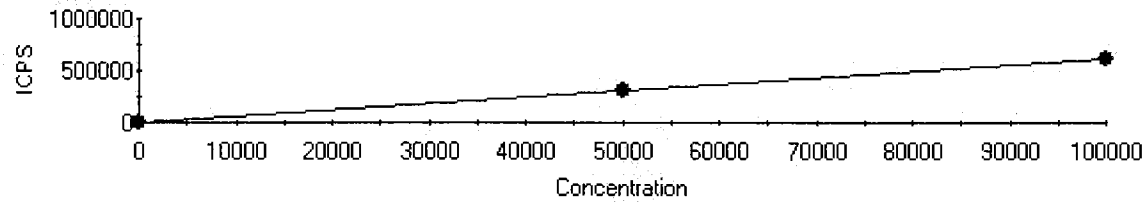
**23Na FQ Block 1**




Intercept CPS=10299.261830 Intercept Conc=61.052595
Sensitivity=168.694908 Correlation Coeff=0.999981

| Label | Defined | Measured | Error | Mean CPS | % Error |
|---|---|---|---|---|---|
| ICISM=6020 | 0.000 | 0.000 | 0.000 | 10299.26 | 0.00 |
| STD2 | 50000.000 | 50430.233 | 430.233 | 8517622.71 | 0.86 |
| STD3 | 100000.000 | 99784.884 | 215.116 | 16843501.01 | 0.22 |

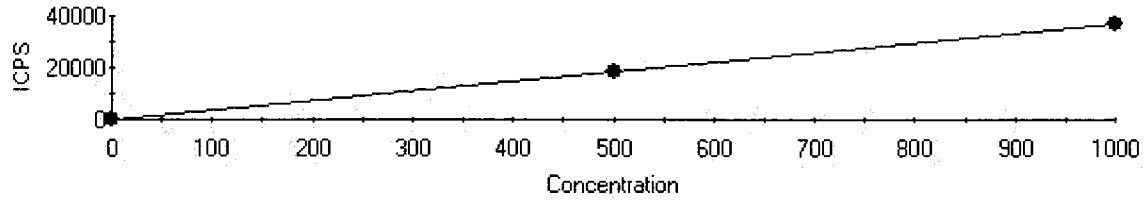
**25Mg FQ Block 1**




Intercept CPS=1.110696 Intercept Conc=0.180560
Sensitivity=6.151396 Correlation Coeff=0.999894

| Label | Defined | Measured | Error | Mean CPS | % Error |
|---|---|---|---|---|---|
| ICISM=6020 | 0.000 | 0.000 | 0.000 | 1.11 | 0.00 |
| STD2 | 50000.000 | 51003.849 | 1003.849 | 313745.98 | 2.01 |
| STD3 | 100000.000 | 99498.075 | 501.925 | 612053.17 | 0.50 |

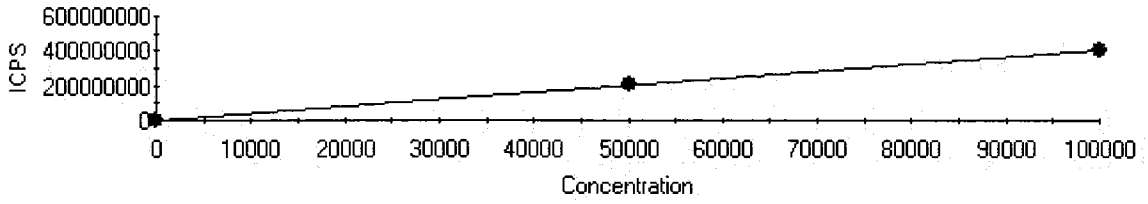
**27Al FQ Block 1**




Intercept CPS=118.882583 Intercept Conc=3.242594
Sensitivity=36.662807 Correlation Coeff=1.000000

| Label | Defined | Measured | Error | Mean CPS | % Error |
|---|---|---|---|---|---|
| ICISM=6020 | 0.000 | -0.000 | 0.000 | 118.88 | 0.00 |
| STD2 | 500.000 | 500.311 | 0.311 | 18461.69 | 0.06 |
| STD3 | 1000.000 | 999.845 | 0.155 | 36775.99 | 0.02 |

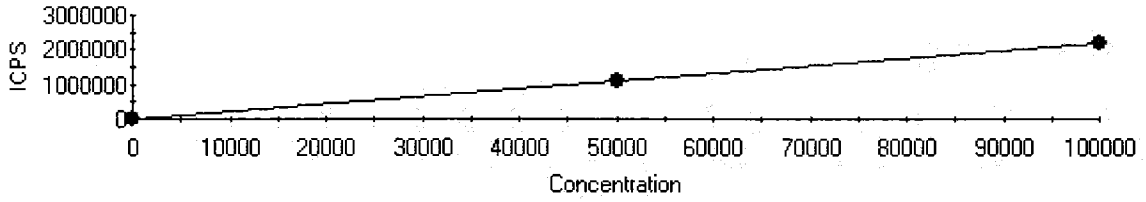
## 39K FQ Block 1




Intercept CPS=204019.640627 Intercept Conc=49.996921
Sensitivity=4080.644058 Correlation Coeff=0.999971

| Label | Defined | Measured | Error | Mean CPS | % Error |
|---|---|---|---|---|---|
| ICISM=6020 | 0.000 | 0.000 | 0.000 | 204019.64 | 0.00 |
| STD2 | 50000.000 | 50524.943 | 524.943 | 206378326.84 | 1.05 |
| STD3 | 100000.000 | 99737.529 | 262.471 | 407197373.29 | 0.26 |

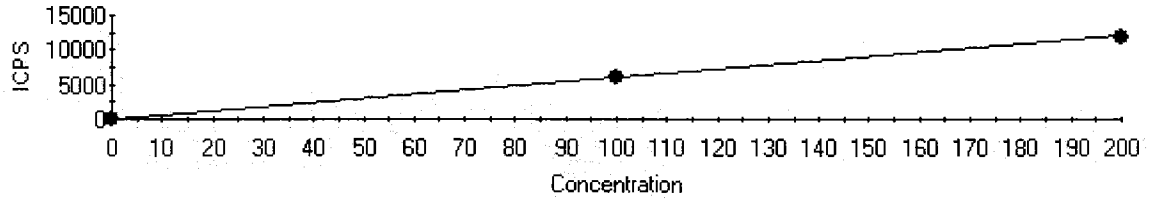
## 43Ca FQ Block 1




Intercept CPS=684.223033 Intercept Conc=31.255450
Sensitivity=21.891319 Correlation Coeff=0.999999

| Label | Defined | Measured | Error | Mean CPS | % Error |
|---|---|---|---|---|---|
| ICISM=6020 | 0.000 | 0.000 | 0.000 | 684.22 | 0.00 |
| STD2 | 50000.000 | 49912.678 | 87.322 | 1093338.57 | 0.17 |
| STD3 | 100000.000 | 100043.661 | 43.661 | 2190771.92 | 0.04 |

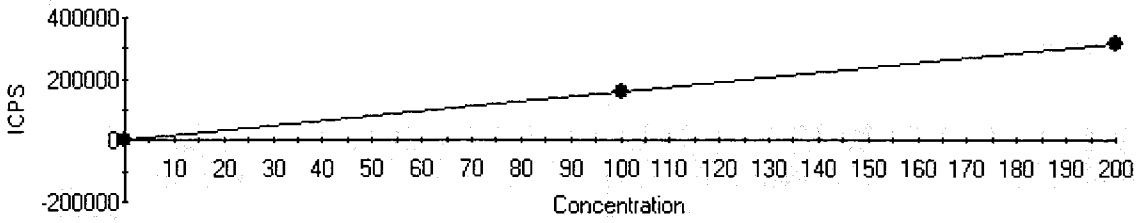
## 47Ti FQ Block 1




Intercept CPS=0.000000 Intercept Conc=0.000000
Sensitivity=60.006349 Correlation Coeff=0.999927

| Label | Defined | Measured | Error | Mean CPS | % Error |
|---|---|---|---|---|---|
| ICISM=6020 | 0.000 | 0.000 | 0.000 | 0.00 | 0.00 |
| STD2 | 100.000 | 101.666 | 1.666 | 6100.58 | 1.67 |
| STD4 | 200.000 | 199.167 | 0.833 | 11951.30 | 0.42 |

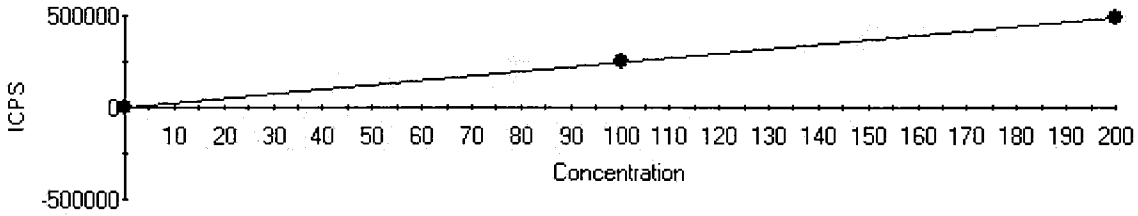
## 51V FQ Block 1




Intercept CPS=-382.234554 Intercept Conc=-0.242463
Sensitivity=1576.464137 Correlation Coeff=0.999983

| Label | Defined | Measured | Error | Mean CPS | % Error |
|---|---|---|---|---|---|
| ICISM=6020 | 0.000 | 0.000 | 0.000 | -382.23 | 0.00 |
| STD2 | 100.000 | 99.199 | 0.801 | 156001.31 | 0.80 |
| STD3 | 200.000 | 200.401 | 0.401 | 315542.03 | 0.20 |

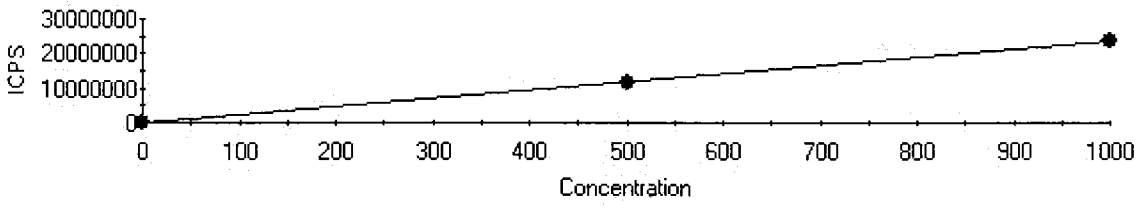
## 52Cr FQ Block 1




Intercept CPS=-29.539499 Intercept Conc=-0.011968
Sensitivity=2468.114325 Correlation Coeff=1.000000

| Label | Defined | Measured | Error | Mean CPS | % Error |
|---|---|---|---|---|---|
| ICISM=6020 | 0.000 | -0.000 | 0.000 | -29.54 | 0.00 |
| STD2 | 100.000 | 100.012 | 0.012 | 246812.27 | 0.01 |
| STD3 | 200.000 | 199.994 | 0.006 | 493578.13 | 0.00 |

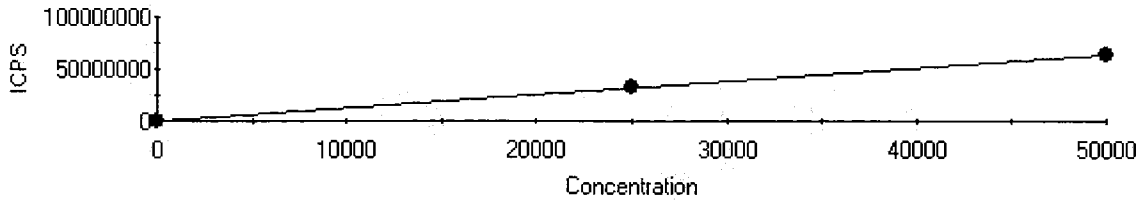
## 55Mn FQ Block 1




Intercept CPS=7517.527810 Intercept Conc=0.320840
Sensitivity=23430.784088 Correlation Coeff=0.999999

| Label | Defined | Measured | Error | Mean CPS | % Error |
|---|---|---|---|---|---|
| ICISM=6020 | 0.000 | 0.000 | 0.000 | 7517.53 | 0.00 |
| STD2 | 500.000 | 501.198 | 1.198 | 11750971.48 | 0.24 |
| STD3 | 1000.000 | 999.401 | 0.599 | 23424270.66 | 0.06 |

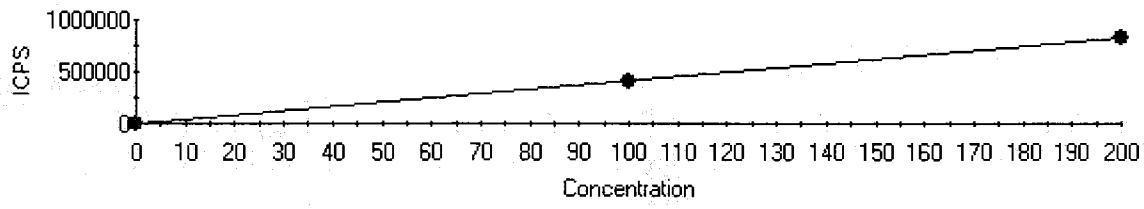
**56Fe FQ Block 1**




Intercept CPS=982.103403 Intercept Conc=0.764948
Sensitivity=1283.882996 Correlation Coeff=0.999997

| Label | Defined | Measured | Error | Mean CPS | % Error |
|---|---|---|---|---|---|
| ICISM=6020 | 0.000 | 0.000 | 0.000 | 982.10 | 0.00 |
| STD2 | 25000.000 | 24912.065 | 87.935 | 31985158.84 | 0.35 |
| STD3 | 50000.000 | 50043.967 | 43.967 | 64251580.99 | 0.09 |

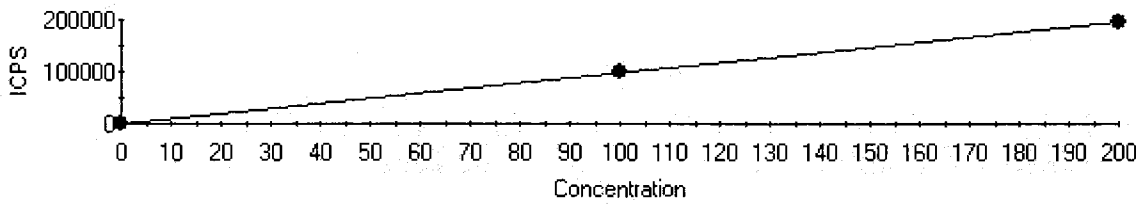
**59Co FQ Block 1**




Intercept CPS=8.904210 Intercept Conc=0.002175
Sensitivity=4094.798289 Correlation Coeff=0.999997

| Label | Defined | Measured | Error | Mean CPS | % Error |
|---|---|---|---|---|---|
| ICISM=6020 | 0.000 | -0.000 | 0.000 | 8.90 | 0.00 |
| STD2 | 100.000 | 100.357 | 0.357 | 410949.69 | 0.36 |
| STD3 | 200.000 | 199.822 | 0.178 | 818238.09 | 0.09 |

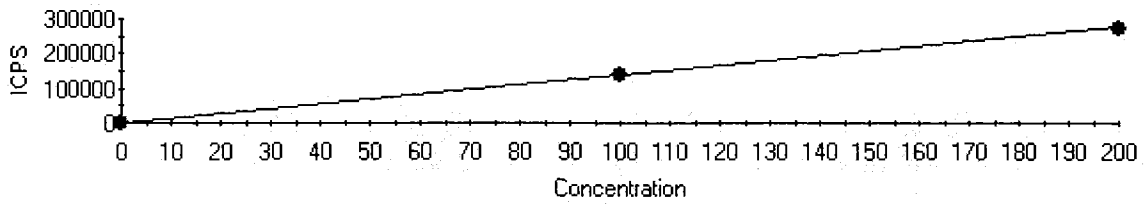
**60Ni FQ Block 1**




Intercept CPS=32.228557 Intercept Conc=0.032860
Sensitivity=980.781088 Correlation Coeff=0.999981

| Label | Defined | Measured | Error | Mean CPS | % Error |
|---|---|---|---|---|---|
| ICISM=6020 | 0.000 | 0.000 | 0.000 | 32.23 | 0.00 |
| STD2 | 100.000 | 100.858 | 0.858 | 98951.97 | 0.86 |
| STD3 | 200.000 | 199.571 | 0.429 | 195767.63 | 0.21 |

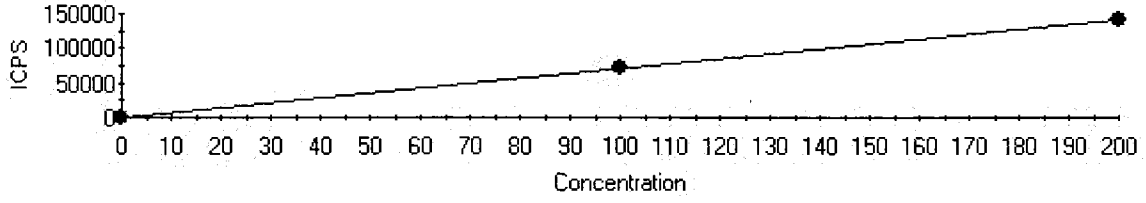
**65Cu FQ Block 1**




Intercept CPS=54.460598 Intercept Conc=0.039648
Sensitivity=1373.588929 Correlation Coeff=0.999867

| Label | Defined | Measured | Error | Mean CPS | % Error |
|---|---|---|---|---|---|
| ICISM=6020 | 0.000 | -0.000 | 0.000 | 54.46 | 0.00 |
| STD2 | 100.000 | 102.250 | 2.250 | 140504.02 | 2.25 |
| STD3 | 200.000 | 198.875 | 1.125 | 273226.91 | 0.56 |

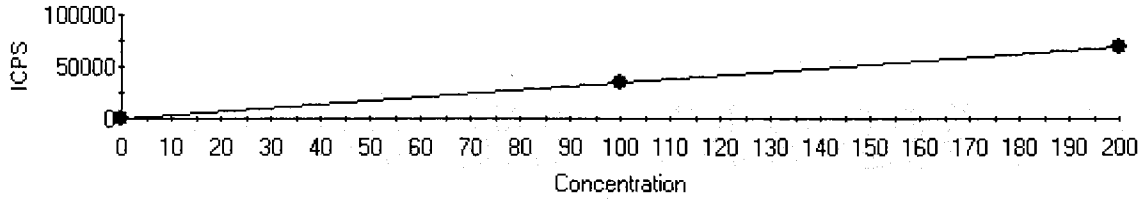
**66Zn FQ Block 1**




Intercept CPS=586.566504 Intercept Conc=0.827044
Sensitivity=709.232523 Correlation Coeff=0.999860

| Label | Defined | Measured | Error | Mean CPS | % Error |
|---|---|---|---|---|---|
| ICISM=6020 | 0.000 | 0.000 | 0.000 | 586.57 | 0.00 |
| STD2 | 100.000 | 102.304 | 2.304 | 73143.91 | 2.30 |
| STD3 | 200.000 | 198.848 | 1.152 | 141616.03 | 0.58 |

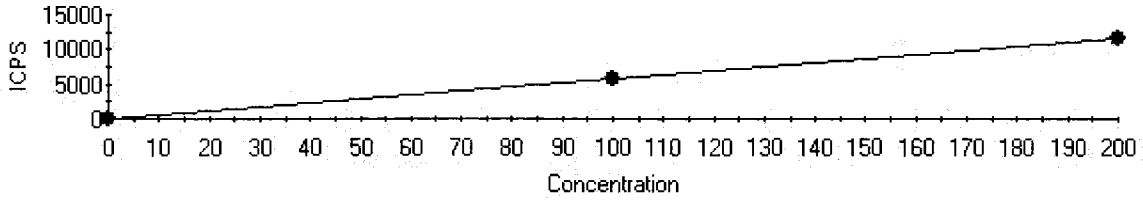
**75As FQ Block 1**




Intercept CPS=529.915509 Intercept Conc=1.542357
Sensitivity=343.575099 Correlation Coeff=0.999970

| Label | Defined | Measured | Error | Mean CPS | % Error |
|---|---|---|---|---|---|
| ICISM=6020 | 0.000 | -0.000 | 0.000 | 529.92 | 0.00 |
| STD2 | 100.000 | 98.918 | 1.082 | 34515.63 | 1.08 |
| STD3 | 200.000 | 200.541 | 0.541 | 69430.83 | 0.27 |

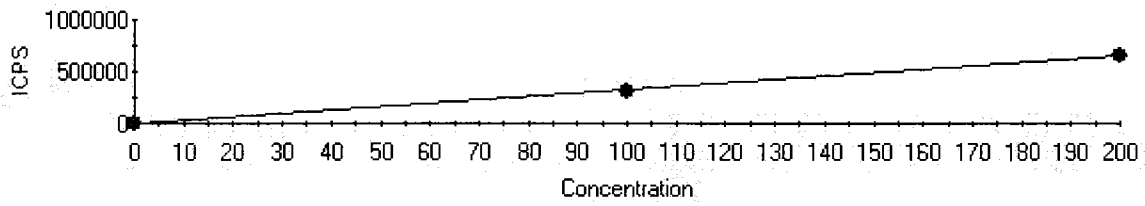
**78Se FQ Block 1**




Intercept CPS=2.789213 Intercept Conc=0.048840
Sensitivity=57.109725 Correlation Coeff=0.999995

| Label | Defined | Measured | Error | Mean CPS | % Error |
|---|---|---|---|---|---|
| ICISM=6020 | 0.000 | -0.000 | 0.000 | 2.79 | 0.00 |
| STD2 | 100.000 | 100.431 | 0.431 | 5738.36 | 0.43 |
| STD3 | 200.000 | 199.785 | 0.215 | 11412.44 | 0.11 |

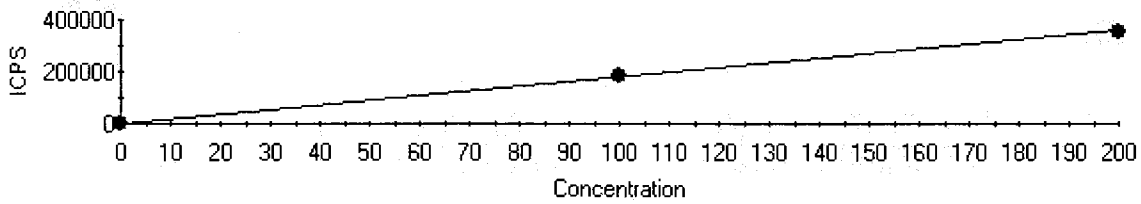
**88Sr FQ Block 1**




Intercept CPS=165.601969 Intercept Conc=0.051140
Sensitivity=3238.212459 Correlation Coeff=0.999801

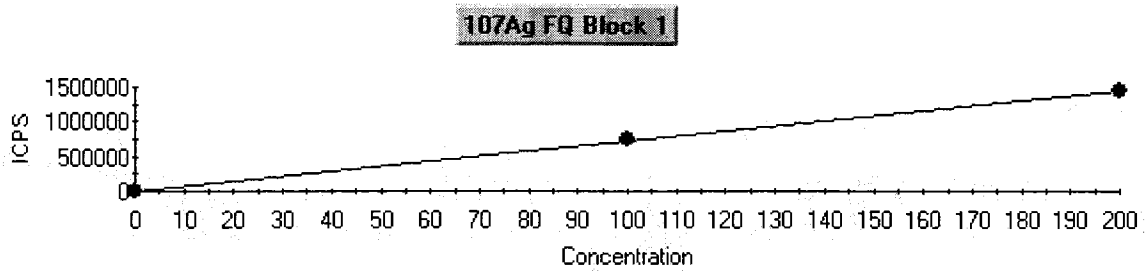
| Label | Defined | Measured | Error | Mean CPS | % Error |
|---|---|---|---|---|---|
| ICISM=6020 | 0.000 | -0.000 | 0.000 | 165.60 | 0.00 |
| STD2 | 100.000 | 97.217 | 2.783 | 314974.51 | 2.78 |
| STD3 | 200.000 | 201.392 | 1.392 | 652314.26 | 0.70 |

**95Mo FQ Block 1**



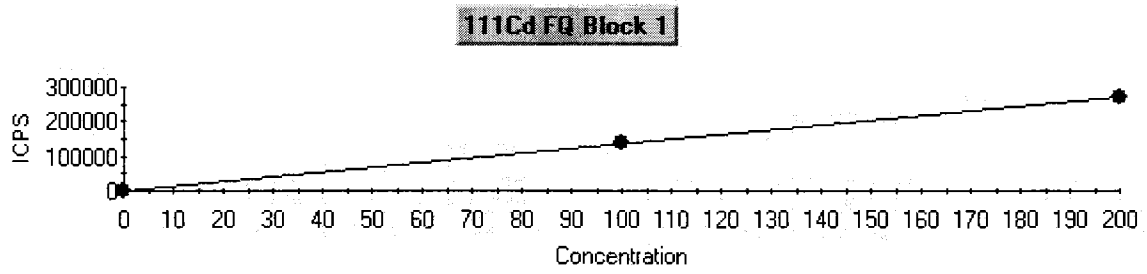

Intercept CPS=37.804349 Intercept Conc=0.021070
Sensitivity=1794.222276 Correlation Coeff=0.999915

| Label | Defined | Measured | Error | Mean CPS | % Error |
|---|---|---|---|---|---|
| ICISM=6020 | 0.000 | 0.000 | 0.000 | 37.80 | 0.00 |
| STD2 | 100.000 | 101.798 | 1.798 | 182686.23 | 1.80 |
| STD4 | 200.000 | 199.101 | 0.899 | 357269.16 | 0.45 |



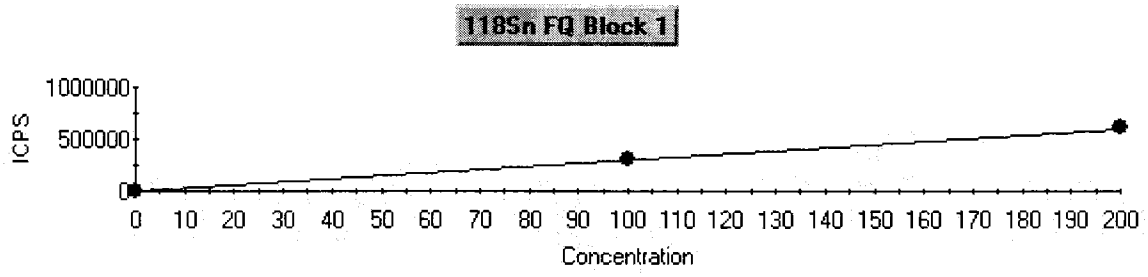

Intercept CPS=41.125929 Intercept Conc=0.005688
Sensitivity=7230.363782 Correlation Coeff=0.999869

| Label | Defined | Measured | Error | Mean CPS | % Error |
|---|---|---|---|---|---|
| ICISM=6020 | 0.000 | -0.000 | 0.000 | 41.13 | 0.00 |
| STD2 | 100.000 | 102.230 | 2.230 | 739200.12 | 2.23 |
| STD3 | 200.000 | 198.885 | 1.115 | 1438052.57 | 0.56 |



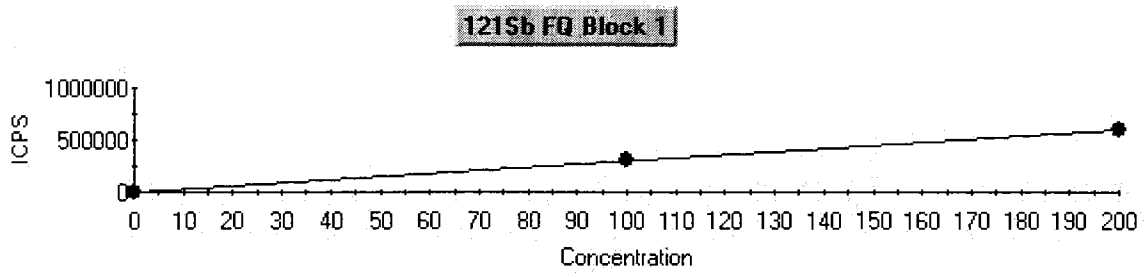

Intercept CPS=5.508341 Intercept Conc=0.004072
Sensitivity=1352.608383 Correlation Coeff=0.999968

| Label | Defined | Measured | Error | Mean CPS | % Error |
|---|---|---|---|---|---|
| ICISM=6020 | 0.000 | 0.000 | 0.000 | 5.51 | 0.00 |
| STD2 | 100.000 | 101.105 | 1.105 | 136760.54 | 1.10 |
| STD3 | 200.000 | 199.448 | 0.552 | 269780.09 | 0.28 |



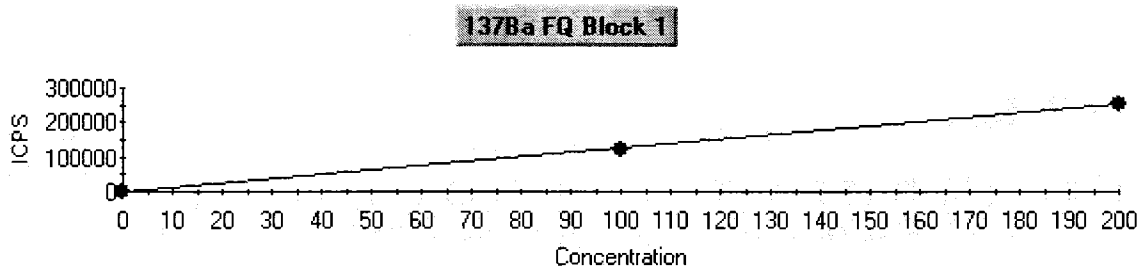

Intercept CPS=313.364222 Intercept Conc=0.103607
Sensitivity=3024.552580 Correlation Coeff=0.999971

| Label | Defined | Measured | Error | Mean CPS | % Error |
|---|---|---|---|---|---|
| ICISM=6020 | 0.000 | -0.000 | 0.000 | 313.36 | 0.00 |
| STD2 | 100.000 | 98.949 | 1.051 | 299588.79 | 1.05 |
| STD4 | 200.000 | 200.526 | 0.526 | 606813.80 | 0.26 |



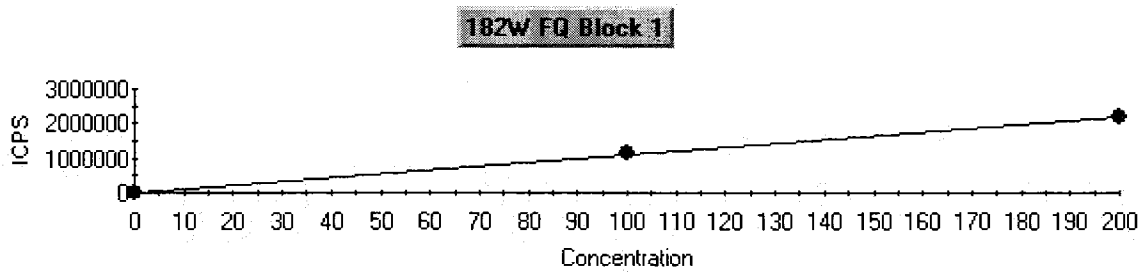

Intercept CPS=45.619796 Intercept Conc=0.015101
Sensitivity=3021.012588 Correlation Coeff=0.999993

| Label | Defined | Measured | Error | Mean CPS | % Error |
|---|---|---|---|---|---|
| ICISM=6020 | 0.000 | 0.000 | 0.000 | 45.62 | 0.00 |
| STD2 | 100.000 | 100.518 | 0.518 | 303712.53 | 0.52 |
| STD4 | 200.000 | 199.741 | 0.259 | 603465.31 | 0.13 |




Intercept CPS=108.929917 Intercept Conc=0.086409
Sensitivity=1260.634138 Correlation Coeff=0.999832

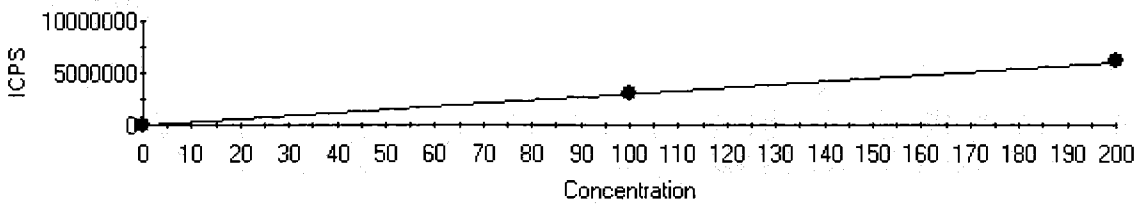
| Label | Defined | Measured | Error | Mean CPS | % Error |
|---|---|---|---|---|---|
| ICISM=6020 | 0.000 | -0.000 | 0.000 | 108.93 | 0.00 |
| STD2 | 100.000 | 97.446 | 2.554 | 122952.55 | 2.55 |
| STD3 | 200.000 | 201.277 | 1.277 | 253845.65 | 0.64 |




Intercept CPS=462.277384 Intercept Conc=0.041709
Sensitivity=11083.352333 Correlation Coeff=0.998968

| Label | Defined | Measured | Error | Mean CPS | % Error |
|---|---|---|---|---|---|
| ICISM=6020 | 0.000 | 0.000 | 0.000 | 462.28 | 0.00 |
| STD2 | 100.000 | 106.202 | 6.202 | 1177532.93 | 6.20 |
| STD4 | 200.000 | 196.899 | 3.101 | 2182765.03 | 1.55 |

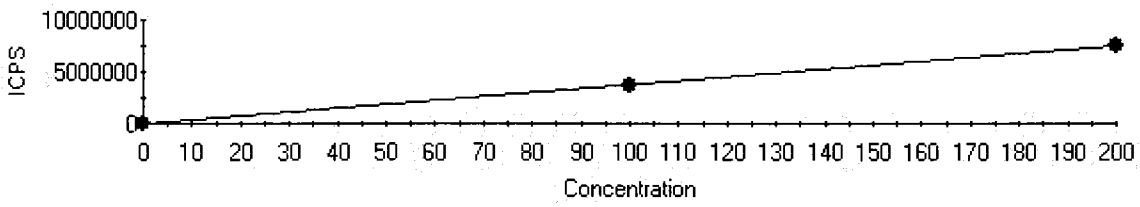
**205Tl FQ Block 1**




Intercept CPS=383.382560 Intercept Conc=0.012664
Sensitivity=30272.476019 Correlation Coeff=0.999963

| Label | Defined | Measured | Error | Mean CPS | % Error |
|---|---|---|---|---|---|
| ICISM=6020 | 0.000 | -0.000 | 0.000 | 383.38 | 0.00 |
| STD2 | 100.000 | 98.802 | 1.198 | 2991371.36 | 1.20 |
| STD3 | 200.000 | 200.599 | 0.599 | 6073008.40 | 0.30 |

**208Pb FQ Block 1**




Intercept CPS=411.104768 Intercept Conc=0.011056
Sensitivity=37184.397552 Correlation Coeff=0.999986

| Label | Defined | Measured | Error | Mean CPS | % Error |
|---|---|---|---|---|---|
| ICISM=6020 | 0.000 | -0.000 | 0.000 | 411.10 | 0.00 |
| STD2 | 100.000 | 99.272 | 0.728 | 3691771.67 | 0.73 |
| STD3 | 200.000 | 200.364 | 0.364 | 7450830.21 | 0.18 |

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-14408-1

SDG No.:

ICV Source: MTMSICVW_00016 Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW_00047

| Analyte | ICV 240-57039/5 09/06/2012 10:16 | | | | CCV 240-57039/11 09/06/2012 10:52 | | | | CCV 240-57039/23 09/06/2012 12:02 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Antimony** | 81.6 | | 80.0 | 102 | 100 | | 100 | 100 | 99.8 | | 100 | 100 |
| **Arsenic** | 80.0 | | 80.0 | 100 | 98.1 | | 100 | 98 | 99.2 | | 100 | 99 |
| **Barium** | 79.0 | | 80.0 | 99 | 96.8 | | 100 | 97 | 97.0 | | 100 | 97 |
| **Beryllium** | 82.0 | | 80.0 | 103 | 99.3 | | 100 | 99 | 97.4 | | 100 | 97 |
| **Cadmium** | 82.5 | | 80.0 | 103 | 101 | | 100 | 101 | 101 | | 100 | 101 |
| **Chromium** | 82.0 | | 80.0 | 102 | 100 | | 100 | 100 | 100 | | 100 | 100 |
| **Cobalt** | 81.6 | | 80.0 | 102 | 101 | | 100 | 101 | 101 | | 100 | 101 |
| **Copper** | 83.9 | | 80.0 | 105 | 103 | | 100 | 103 | 104 | | 100 | 104 |
| **Lead** | 79.4 | | 80.0 | 99 | 97.8 | | 100 | 98 | 97.4 | | 100 | 97 |
| **Molybdenum** | 80.8 | | 80.0 | 101 | 106 | | 100 | 106 | 103 | | 100 | 103 |
| **Nickel** | 83.1 | | 80.0 | 104 | 103 | | 100 | 103 | 102 | | 100 | 102 |
| **Selenium** | 80.3 | | 80.0 | 100 | 99.6 | | 100 | 100 | 99.6 | | 100 | 100 |
| **Silver** | 83.6 | | 80.0 | 105 | 103 | | 100 | 103 | 103 | | 100 | 103 |
| **Thallium** | 79.3 | | 80.0 | 99 | 97.8 | | 100 | 98 | 96.9 | | 100 | 97 |
| **Vanadium** | 81.1 | | 80.0 | 101 | 99.3 | | 100 | 99 | 99.2 | | 100 | 99 |
| **Zinc** | 84.0 | | 80.0 | 105 | 102 | | 100 | 102 | 102 | | 100 | 102 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-14408-1

SDG No.:

ICV Source: MTMSICVW_00016 Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW_00047

| Analyte | CCV 240-57039/35 09/06/2012 13:09 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Antimony** | 101 | | 100 | 101 | | | | | | | | |
| **Arsenic** | 99.1 | | 100 | 99 | | | | | | | | |
| **Barium** | 99.1 | | 100 | 99 | | | | | | | | |
| **Beryllium** | 98.4 | | 100 | 98 | | | | | | | | |
| **Cadmium** | 102 | | 100 | 102 | | | | | | | | |
| **Chromium** | 101 | | 100 | 101 | | | | | | | | |
| **Cobalt** | 101 | | 100 | 101 | | | | | | | | |
| **Copper** | 103 | | 100 | 103 | | | | | | | | |
| **Lead** | 98.7 | | 100 | 99 | | | | | | | | |
| **Molybdenum** | 103 | | 100 | 103 | | | | | | | | |
| **Nickel** | 102 | | 100 | 102 | | | | | | | | |
| **Selenium** | 101 | | 100 | 101 | | | | | | | | |
| **Silver** | 103 | | 100 | 103 | | | | | | | | |
| **Thallium** | 97.7 | | 100 | 98 | | | | | | | | |
| **Vanadium** | 99.4 | | 100 | 99 | | | | | | | | |
| **Zinc** | 102 | | 100 | 102 | | | | | | | | |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton  Job No.: 240-14408-1

SDG No.:

ICV Source: MTHGICVW_00374  Concentration Units: ug/L

CCV Source: MTHGCALW_00241

| Analyte | ICV 240-56462/7-A 08/31/2012 09:08 | | | | CCVL 240-56462/10-A 08/31/2012 09:13 | | | | CCV 240-56462/11-A 08/31/2012 09:30 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Mercury** | 2.31 | | 2.50 | 92 | 5.15 | | 5.00 | 103 | 5.24 | | 5.00 | 105 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton  Job No.: 240-14408-1

SDG No.:

ICV Source: MTHGICVW_00374  Concentration Units: ug/L

CCV Source: MTHGCALW_00241

| Analyte | CCV 240-56462/11-A 08/31/2012 09:48 | | | | CCV 240-56462/11-A 08/31/2012 10:06 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Mercury** | 5.41 | | 5.00 | 108 | 5.38 | | 5.00 | 108 | | | | |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton  Job No.: 240-14408-1

SDG No.:

Lab Sample ID: ICSA 240-57039/9  Instrument ID: I8

Lab File ID: I8090612A.csv  ICS Source: MTMSICSAW_00017

Concentration Units: ug/L

| Analyte | True Solution A | Found Solution A | Percent Recovery |
|---|---|---|---|
| **Antimony** | | **0.164** | |
| **Arsenic** | | **0.303** | |
| **Barium** | | **0.172** | |
| **Beryllium** | | **0.0270** | |
| **Cadmium** | | **-0.138** | |
| **Chromium** | | **0.585** | |
| **Cobalt** | | **0.0930** | |
| **Copper** | | **0.291** | |
| **Lead** | | **0.117** | |
| **Molybdenum** | **1000** | **1014** | **101** |
| **Nickel** | | **0.449** | |
| **Selenium** | | **0.114** | |
| **Silver** | | **0.0420** | |
| **Thallium** | | **0.158** | |
| **Vanadium** | | **0.233** | |
| **Zinc** | | **1.54** | |
| *Aluminum* | *50000* | *50930* | *102* |
| *Boron* | | *-0.0910* | |
| *Calcium* | *50000* | *52880* | *106* |
| *Iron* | *50000* | *51590* | *103* |
| *Magnesium* | *50000* | *52630* | *105* |
| *Manganese* | | *0.193* | |
| *Potassium* | *50000* | *53350* | *107* |
| *Sodium* | *50000* | *52780* | *106* |
| *Strontium* | | *0.242* | |
| *Tin* | | *0.126* | |
| *Titanium* | *1000* | *1052* | *105* |
| *Tungsten* | | *0.353* | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton  Job No.: 240-14408-1

SDG No.:

Lab Sample ID: ICSAB 240-57039/10  Instrument ID: I8

Lab File ID: I8090612A.csv  ICS Source: MTMSICSABW_00017

Concentration Units: ug/L

| Analyte | True Solution AB | Found Solution AB | Percent Recovery |
|---|---|---|---|
| **Antimony** | **100** | **101** | **101** |
| **Arsenic** | **100** | **97.1** | **97** |
| **Barium** | **100** | **98.5** | **98** |
| **Beryllium** | **100** | **102** | **102** |
| **Cadmium** | **100** | **100** | **100** |
| **Chromium** | **100** | **104** | **104** |
| **Cobalt** | **100** | **101** | **101** |
| **Copper** | **100** | **101** | **101** |
| **Lead** | **100** | **99.6** | **100** |
| **Molybdenum** | **1100** | **1122** | **102** |
| **Nickel** | **100** | **102** | **102** |
| **Selenium** | **100** | **98.2** | **98** |
| **Silver** | **100** | **103** | **103** |
| **Thallium** | **100** | **99.7** | **100** |
| **Vanadium** | **100** | **103** | **103** |
| **Zinc** | **100** | **104** | **104** |
| *Aluminum* | *50000* | *51150* | *102* |
| *Boron* | *100* | *98.6* | *99* |
| *Calcium* | *50000* | *52880* | *106* |
| *Iron* | *50000* | *52530* | *105* |
| *Magnesium* | *50000* | *53580* | *107* |
| *Manganese* | *100* | *106* | *106* |
| *Potassium* | *50000* | *53560* | *107* |
| *Sodium* | *50000* | *53670* | *107* |
| *Strontium* | *100* | *95.4* | *95* |
| *Tin* | *100* | *101* | *101* |
| *Titanium* | *1100* | *1177* | *107* |
| *Tungsten* | *100* | *107* | *107* |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-14408-1

SDG No.:

Method: 6020A Instrument ID: I8

Lab Sample ID: CRI 240-57039/8 Concentration Units: ug/L

CRQL Check Standard Source: MTMSCRI6020AW_00003

| Analyte | CRQL Check Standard | | | | |
|---|---|---|---|---|---|
| | True | Found | Qualifiers | %R(1) | Limits |
| Antimony | 2.00 | 2.07 | | 104 | 70-130 |
| Arsenic | 5.00 | 4.68 | J | 94 | 70-130 |
| Barium | 5.00 | 4.93 | J | 99 | 70-130 |
| Beryllium | 1.00 | 1.05 | | 105 | 70-130 |
| Cadmium | 1.00 | 1.13 | | 113 | 70-130 |
| Chromium | 2.00 | 2.05 | | 103 | 70-130 |
| Cobalt | 1.00 | 1.07 | | 107 | 70-130 |
| Copper | 2.00 | 2.36 | | 118 | 70-130 |
| Lead | 1.00 | 1.05 | | 105 | 70-130 |
| Molybdenum | 10.0 | 10.4 | | 104 | 70-130 |
| Nickel | 2.00 | 2.37 | | 119 | 70-130 |
| Selenium | 5.00 | 5.40 | | 108 | 70-130 |
| Silver | 1.00 | 1.12 | | 112 | 70-130 |
| Thallium | 2.00 | 2.04 | | 102 | 70-130 |
| Vanadium | 5.00 | 5.04 | J | 101 | 70-130 |
| Zinc | 20.0 | 22.8 | | 114 | 70-130 |

Lab Sample ID: CRI 240-57039/43 Concentration Units: ug/L

CRQL Check Standard Source: MTMSCRI6020AW_00003

| Analyte | CRQL Check Standard | | | | |
|---|---|---|---|---|---|
| | True | Found | Qualifiers | %R(1) | Limits |
| Antimony | 2.00 | 2.06 | | 103 | 70-130 |
| Arsenic | 5.00 | 4.76 | J | 95 | 70-130 |
| Barium | 5.00 | 4.90 | J | 98 | 70-130 |
| Beryllium | 1.00 | 1.05 | | 105 | 70-130 |
| Cadmium | 1.00 | 1.05 | | 105 | 70-130 |
| Chromium | 2.00 | 2.10 | | 105 | 70-130 |
| Cobalt | 1.00 | 1.08 | | 108 | 70-130 |
| Copper | 2.00 | 2.34 | | 117 | 70-130 |
| Lead | 1.00 | 1.05 | | 105 | 70-130 |
| Molybdenum | 10.0 | 9.97 | J | 100 | 70-130 |
| Nickel | 2.00 | 2.13 | | 107 | 70-130 |
| Selenium | 5.00 | 4.78 | J | 96 | 70-130 |
| Silver | 1.00 | 1.14 | | 114 | 70-130 |
| Thallium | 2.00 | 1.90 | J | 95 | 70-130 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-14408-1

SDG No.:

Method: 6020A Instrument ID: I8

Lab Sample ID: CRI 240-57039/43 Concentration Units: ug/L

CRQL Check Standard Source: MTMSCRI6020AW_00003

| Analyte | CRQL Check Standard | | | | |
|---|---|---|---|---|---|
| | True | Found | Qualifiers | %R(1) | Limits |
| Vanadium | 5.00 | 4.97 | J | 99 | 70-130 |
| Zinc | 20.0 | 22.8 | | 114 | 70-130 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-14408-1

SDG No.:

Method: 7470A Instrument ID: H1

Lab Sample ID: CRA 240-56462/9-A Concentration Units: ug/L

CRQL Check Standard Source: MTHGCALW_00241

| Analyte | CRQL Check Standard | | | | |
|---|---|---|---|---|---|
| | True | Found | Qualifiers | %R(1) | Limits |
| Mercury | 0.200 | 0.176 | J | 88 | 50-150 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-14408-1

SDG No.:

Concentration Units: ug/L

| Analyte | RL | ICB 240-57039/6 09/06/2012 10:23 | | CCB 240-57039/12 09/06/2012 10:59 | | CCB 240-57039/24 09/06/2012 12:09 | | CCB 240-57039/36 09/06/2012 13:16 | |
|---|---|---|---|---|---|---|---|---|---|
| | | Found | C | Found | C | Found | C | Found | C |
| **Antimony** | 2.0 | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U |
| **Arsenic** | 5.0 | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| **Barium** | 5.0 | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| **Beryllium** | 1.0 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| **Cadmium** | 1.0 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| **Chromium** | 2.0 | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U |
| **Cobalt** | 1.0 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| **Copper** | 2.0 | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U |
| **Lead** | 1.0 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| **Molybdenum** | 10 | 0.400 | J | 1.08 | J | 0.420 | J | 0.370 | J |
| **Nickel** | 2.0 | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U |
| **Selenium** | 5.0 | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| **Silver** | 1.0 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| **Thallium** | 2.0 | 0.386 | J | 0.376 | J | 0.351 | J | 0.299 | J |
| **Vanadium** | 20 | 20 | U | 20 | U | 20 | U | 20 | U |
| **Zinc** | 20 | 20 | U | 20 | U | 20 | U | 20 | U |

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-14408-1

SDG No.:

Concentration Units: ug/L

| Analyte | RL | ICB 240-56462/8-A 08/31/2012 09:10 | | CCB 240-56462/12-A 08/31/2012 09:15 | | CCB 240-56462/12-A 08/31/2012 09:31 | | CCB 240-56462/12-A 08/31/2012 09:50 | |
|---|---|---|---|---|---|---|---|---|---|
| | | Found | C | Found | C | Found | C | Found | C |
| **Mercury** | 0.20 | 0.20 | U | 0.20 | U | 0.20 | U | 0.20 | U |

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-14408-1

SDG No.:

Concentration Units: ug/L

| Analyte | RL | CCB 240-56462/12-A 08/31/2012 10:07 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Found | C | Found | C | Found | C | Found | C |
| **Mercury** | 0.20 | 0.20 | U | | | | | | |

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job No.: 240-14408-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 240-56218/1-A

Instrument Code: I8 Batch No.: 57039

| CAS No. | Analyte | Concentration | C | Q | Method |
|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 2.0 | U | | 6020A |
| 7440-38-2 | Arsenic | 5.0 | U | | 6020A |
| 7440-39-3 | Barium | 0.678 | J | | 6020A |
| 7440-41-7 | Beryllium | 1.0 | U | | 6020A |
| 7440-43-9 | Cadmium | 1.0 | U | | 6020A |
| 7440-47-3 | Chromium | 2.0 | U | | 6020A |
| 7440-48-4 | Cobalt | 1.0 | U | | 6020A |
| 7440-50-8 | Copper | 0.514 | J | | 6020A |
| 7439-92-1 | Lead | 1.0 | U | | 6020A |
| 7439-98-7 | Molybdenum | 0.557 | J | | 6020A |
| 7440-02-0 | Nickel | 2.0 | U | | 6020A |
| 7782-49-2 | Selenium | 5.0 | U | | 6020A |
| 7440-22-4 | Silver | 1.0 | U | | 6020A |
| 7440-28-0 | Thallium | 0.225 | J | | 6020A |
| 7440-62-2 | Vanadium | 20 | U | | 6020A |
| 7440-66-6 | Zinc | 6.90 | J | | 6020A |

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Canton Job No.: 240-14408-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 240-56220/1-A

Instrument Code: H1 Batch No.: 56469

| CAS No. | Analyte | Concentration | C | Q | Method |
|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.20 | U | | 7470A |

7A-IN
LAB CONTROL SAMPLE
METALS - TOTAL RECOVERABLE

Lab ID: LCS 240-56218/2-A

Lab Name: TestAmerica Canton  Job No.: 240-14408-1

Sample Matrix: Water  LCS Source: MTICPMSB_00009

| Analyte | Water(ug/L) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | True | Found | C | %R | Limits | | Q | Method |
| Antimony | 100 | 93.9 | | 94 | 80 | 120 | | 6020A |
| Arsenic | 1000 | 926 | | 93 | 80 | 120 | | 6020A |
| Barium | 1000 | 897 | | 90 | 80 | 120 | | 6020A |
| Beryllium | 1000 | 954 | | 95 | 80 | 120 | | 6020A |
| Cadmium | 1000 | 967 | | 97 | 80 | 120 | | 6020A |
| Chromium | 1000 | 948 | | 95 | 80 | 120 | | 6020A |
| Cobalt | 1000 | 902 | | 90 | 80 | 120 | | 6020A |
| Copper | 1000 | 1000 | | 100 | 80 | 120 | | 6020A |
| Lead | 1000 | 864 | | 86 | 80 | 120 | | 6020A |
| Molybdenum | 100 | 92.0 | | 92 | 80 | 120 | | 6020A |
| Nickel | 1000 | 962 | | 96 | 80 | 120 | | 6020A |
| Selenium | 1000 | 945 | | 94 | 80 | 120 | | 6020A |
| Silver | 100 | 101 | | 101 | 80 | 120 | | 6020A |
| Thallium | 250 | 211 | | 84 | 80 | 120 | | 6020A |
| Vanadium | 1000 | 920 | | 92 | 80 | 120 | | 6020A |
| Zinc | 1000 | 1010 | | 101 | 80 | 120 | | 6020A |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 240-56220/2-A

Lab Name: TestAmerica Canton  Job No.: 240-14408-1

Sample Matrix: Water  LCS Source: MTHGICVW_00373

| Analyte | Water(ug/L) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | True | Found | C | %R | Limits | | Q | Method |
| Mercury | 5.00 | 4.86 | | 97 | 81 | 123 | | 7470A |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS - TOTAL RECOVERABLE

Client ID: MT-MW09S-082112 MS
Lab ID: 240-14408-2 MS
Lab Name: TestAmerica Canton
Job No.: 240-14408-1
SDG No.:
Matrix: Water
Concentration Units: ug/L
% Solids:

| Analyte | SSR | C | Sample Result (SR) | C | Spike Added (SA) | %R | Control Limit %R | Q | Method |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 96.2 | | 1.9 | J | 100 | 94 | 44-153 | | 6020A |
| Arsenic | 922 | | 0.60 | J | 1000 | 92 | 82-123 | | 6020A |
| Barium | 968 | | 59 | | 1000 | 91 | 45-144 | | 6020A |
| Beryllium | 929 | | 1.8 | | 1000 | 93 | 77-124 | | 6020A |
| Cadmium | 970 | | 1.0 | U | 1000 | 97 | 78-117 | | 6020A |
| Chromium | 957 | | 1.8 | J | 1000 | 96 | 72-110 | | 6020A |
| Cobalt | 906 | | 7.6 | | 1000 | 90 | 67-114 | | 6020A |
| Copper | 987 | | 2.2 | | 1000 | 98 | 60-123 | | 6020A |
| Lead | 886 | | 0.79 | J | 1000 | 89 | 73-115 | | 6020A |
| Molybdenum | 94.0 | | 1.9 | J | 100 | 92 | 80-110 | | 6020A |
| Nickel | 959 | | 12 | | 1000 | 95 | 72-111 | | 6020A |
| Selenium | 922 | | 0.62 | J | 1000 | 92 | 72-148 | | 6020A |
| Silver | 100 | | 1.0 | U | 100 | 100 | 10-139 | | 6020A |
| Thallium | 216 | | 0.57 | J | 250 | 86 | 69-117 | | 6020A |
| Vanadium | 931 | | 0.84 | J | 1000 | 93 | 70-112 | | 6020A |
| Zinc | 1020 | | 43 | | 1000 | 98 | 49-156 | | 6020A |

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: _____ Lab ID: 240-14454-G-4-D MS

Lab Name: TestAmerica Canton Job No.: 240-14408-1

SDG No.: _____

Matrix: Water Concentration Units: ug/L

% Solids: _____

| Analyte | SSR | C | Sample Result (SR) | C | Spike Added (SA) | %R | Control Limit %R | Q | Method |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.950 | | 0.20 | U | 1.00 | 95 | 69-134 | | 7470A |

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

6-IN
DUPLICATES
METALS - TOTAL RECOVERABLE

Client ID: MT-MW09S-082112 DU | Lab ID: 240-14408-2 DU

Lab Name: TestAmerica Canton | Job No.: 240-14408-1

SDG No.:

% Solids for Sample: | % Solids for Duplicate:

Matrix: Water | Concentration Units: ug/L

| Analyte | Control Limit | Sample (S) | C | Duplicate (D) | C | RPD | Q | Method |
|---|---|---|---|---|---|---|---|---|
| Antimony | 2.0 | 1.9 | J | 1.90 | J | 2 | | 6020A |
| Arsenic | 5.0 | 0.60 | J | 0.513 | J | 16 | | 6020A |
| Barium | 5.0 | 59 | | 57.9 | | 1 | | 6020A |
| Beryllium | 1.0 | 1.8 | | 1.85 | | 5 | | 6020A |
| Cadmium | 1.0 | 1.0 | U | 1.0 | U | NC | | 6020A |
| Chromium | 2.0 | 1.8 | J | 2.28 | | 24 | | 6020A |
| Cobalt | 1.0 | 7.6 | | 7.41 | | 2 | | 6020A |
| Copper | 2.0 | 2.2 | | 2.35 | | 5 | | 6020A |
| Lead | 1.0 | 0.79 | J | 0.757 | J | 4 | | 6020A |
| Molybdenum | 10 | 1.9 | J | 1.67 | J | 15 | | 6020A |
| Nickel | 2.0 | 12 | | 12.7 | | 4 | | 6020A |
| Selenium | 5.0 | 0.62 | J | 5.0 | U | NC | | 6020A |
| Silver | 1.0 | 1.0 | U | 1.0 | U | NC | | 6020A |
| Thallium | 2.0 | 0.57 | J | 0.255 | J | 77 | | 6020A |
| Vanadium | 20 | 0.84 | J | 0.596 | J | 34 | | 6020A |
| Zinc | 20 | 43 | | 46.2 | | 8 | | 6020A |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

6-IN
DUPLICATES
METALS

Client ID: _____ Lab ID: 240-14454-G-4-C DU

Lab Name: TestAmerica Canton Job No.: 240-14408-1

SDG No.: _____

% Solids for Sample: _____ % Solids for Duplicate: _____

Matrix: Water Concentration Units: ug/L

| Analyte | Control Limit | Sample (S) | C | Duplicate (D) | C | RPD | Q | Method |
|---|---|---|---|---|---|---|---|---|
| Mercury | 0.20 | 0.20 | U | 0.20 | U | NC | | 7470A |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS - TOTAL RECOVERABLE

Lab ID: 240-14408-2

SDG No:

Lab Name: TestAmerica Canton Job No: 240-14408-1

Matrix: Water Concentration Units: ug/L

| Analyte | Initial Sample Result (I) | C | Serial Dilution Result (S) | C | % Difference | Q | Method |
|---|---|---|---|---|---|---|---|
| Antimony | 1.9 | J | 2.11 | J | NC | | 6020A |
| Arsenic | 0.60 | J | 25 | U | NC | | 6020A |
| Barium | 59 | | 58.6 | | NC | | 6020A |
| Beryllium | 1.8 | | 2.10 | J | NC | | 6020A |
| Cadmium | 1.0 | U | 5.0 | U | NC | | 6020A |
| Chromium | 1.8 | J | 10 | U | NC | | 6020A |
| Cobalt | 7.6 | | 7.57 | | NC | | 6020A |
| Copper | 2.2 | | 2.84 | J | NC | | 6020A |
| Lead | 0.79 | J | 0.945 | J | NC | | 6020A |
| Molybdenum | 1.9 | J | 2.85 | J | NC | | 6020A |
| Nickel | 12 | | 12.9 | | NC | | 6020A |
| Selenium | 0.62 | J | 25 | U | NC | | 6020A |
| Silver | 1.0 | U | 5.0 | U | NC | | 6020A |
| Thallium | 0.57 | J | 1.46 | J | NC | | 6020A |
| Vanadium | 0.84 | J | 100 | U | NC | | 6020A |
| Zinc | 43 | | 50.4 | J | NC | | 6020A |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton  Job Number: 240-14408-1

SDG Number:

Matrix: Water  Instrument ID: I8

Method: 6020A  MDL Date: 02/09/2010 15:53

Prep Method: 3005A

| Analyte | Wavelength/ Mass | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| Antimony | 121.00 | 2 | 0.13 |
| Arsenic | 75.00 | 5 | 0.4 |
| Barium | 137.00 | 5 | 0.19 |
| Beryllium | 9.00 | 1 | 0.2 |
| Cadmium | 111.00 | 1 | 0.13 |
| Chromium | 52.00 | 2 | 0.71 |
| Cobalt | 59.00 | 1 | 0.058 |
| Copper | 65.00 | 2 | 0.29 |
| Lead | 208.00 | 1 | 0.18 |
| Molybdenum | 95.00 | 10 | 0.093 |
| Nickel | 60.00 | 2 | 0.2 |
| Selenium | 78.00 | 5 | 0.57 |
| Silver | 107.00 | 1 | 0.08 |
| Thallium | 205.00 | 2 | 0.14 |
| Vanadium | 51.00 | 20 | 0.44 |
| Zinc | 66.00 | 20 | 2.3 |

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job Number: 240-14408-1

SDG Number:

Matrix: Water Instrument ID: I8

Method: 6020A XMDL Date: 02/09/2010 15:53

| Analyte | Wavelength/ Mass | XRL (ug/L) | XMDL (ug/L) |
|---|---|---|---|
| Antimony | 121.00 | 2 | 0.13 |
| Arsenic | 75.00 | 5 | 0.4 |
| Barium | 137.00 | 5 | 0.19 |
| Beryllium | 9.00 | 1 | 0.2 |
| Cadmium | 111.00 | 1 | 0.13 |
| Chromium | 52.00 | 2 | 0.71 |
| Cobalt | 59.00 | 1 | 0.058 |
| Copper | 65.00 | 2 | 0.29 |
| Lead | 208.00 | 1 | 0.18 |
| Molybdenum | 95.00 | 10 | 0.093 |
| Nickel | 60.00 | 2 | 0.2 |
| Selenium | 78.00 | 5 | 0.57 |
| Silver | 107.00 | 1 | 0.08 |
| Thallium | 205.00 | 2 | 0.14 |
| Vanadium | 51.00 | 20 | 0.44 |
| Zinc | 66.00 | 20 | 2.3 |

9-IN
DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Canton  Job Number: 240-14408-1

SDG Number:

Matrix: Water  Instrument ID: I8

Method: 6020A  MDL Date: 02/09/2010 15:53

Prep Method: 3005A

| Analyte | Wavelength/ Mass | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| Antimony | 121.00 | 2 | 0.13 |
| Arsenic | 75.00 | 5 | 0.4 |
| Barium | 137.00 | 5 | 0.19 |
| Beryllium | 9.00 | 1 | 0.2 |
| Cadmium | 111.00 | 1 | 0.13 |
| Chromium | 52.00 | 2 | 0.71 |
| Cobalt | 59.00 | 1 | 0.058 |
| Copper | 65.00 | 2 | 0.29 |
| Lead | 208.00 | 1 | 0.18 |
| Molybdenum | 95.00 | 10 | 0.093 |
| Nickel | 60.00 | 2 | 0.2 |
| Selenium | 78.00 | 5 | 0.57 |
| Silver | 107.00 | 1 | 0.08 |
| Thallium | 205.00 | 2 | 0.14 |
| Vanadium | 51.00 | 20 | 0.44 |
| Zinc | 66.00 | 20 | 2.3 |

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Canton Job Number: 240-14408-1

SDG Number:

Matrix: Water Instrument ID: I8

Method: 6020A XMDL Date: 02/09/2010 15:53

| Analyte | Wavelength/ Mass | XRL (ug/L) | XMDL (ug/L) |
|---|---|---|---|
| Antimony | 121.00 | 2 | 0.13 |
| Arsenic | 75.00 | 5 | 0.4 |
| Barium | 137.00 | 5 | 0.19 |
| Beryllium | 9.00 | 1 | 0.2 |
| Cadmium | 111.00 | 1 | 0.13 |
| Chromium | 52.00 | 2 | 0.71 |
| Cobalt | 59.00 | 1 | 0.058 |
| Copper | 65.00 | 2 | 0.29 |
| Lead | 208.00 | 1 | 0.18 |
| Molybdenum | 95.00 | 10 | 0.093 |
| Nickel | 60.00 | 2 | 0.2 |
| Selenium | 78.00 | 5 | 0.57 |
| Silver | 107.00 | 1 | 0.08 |
| Thallium | 205.00 | 2 | 0.14 |
| Vanadium | 51.00 | 20 | 0.44 |
| Zinc | 66.00 | 20 | 2.3 |

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Canton  Job Number: 240-14408-1

SDG Number:

Matrix: Water  Instrument ID: H1

Method: 7470A  MDL Date: 02/08/2010 16:06

Prep Method: 7470A

| Analyte | Wavelength/ Mass | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| Mercury | 253.7 | 0.2 | 0.12 |

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Canton Job Number: 240-14408-1

SDG Number:

Matrix: Water Instrument ID: H1

Method: 7470A XMDL Date: 02/08/2010 16:06

| Analyte | Wavelength/ Mass | XRL (ug/L) | XMDL (ug/L) |
|---|---|---|---|
| Mercury | 253.7 | 0.2 | 0.12 |

9-IN
DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Canton  Job Number: 240-14408-1

SDG Number:

Matrix: Water  Instrument ID: H1

Method: 7470A  MDL Date: 02/08/2010 16:06

Prep Method: 7470A

| Analyte | Wavelength/ Mass | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| Mercury | 253.7 | 0.2 | 0.12 |

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Canton Job Number: 240-14408-1

SDG Number:

Matrix: Water Instrument ID: H1

Method: 7470A XMDL Date: 02/08/2010 16:06

| Analyte | Wavelength/ Mass | XRL (ug/L) | XMDL (ug/L) |
|---|---|---|---|
| Mercury | 253.7 | 0.2 | 0.12 |

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Canton Job No: 240-14408-1

SDG No.:

Instrument ID: I8 Date: 06/18/2012 15:26

| Analyte | Integ. Time (Sec.) | Concentration (ppb) | Method |
|---|---|---|---|
| Antimony | | 2000 | 6020A |
| Arsenic | | 10000 | 6020A |
| Barium | | 10000 | 6020A |
| Beryllium | | 10000 | 6020A |
| Cadmium | | 10000 | 6020A |
| Chromium | | 10000 | 6020A |
| Cobalt | | 10000 | 6020A |
| Copper | | 10000 | 6020A |
| Lead | | 10000 | 6020A |
| Molybdenum | | 2000 | 6020A |
| Nickel | | 10000 | 6020A |
| Selenium | | 10000 | 6020A |
| Silver | | 2000 | 6020A |
| Thallium | | 10000 | 6020A |
| Vanadium | | 10000 | 6020A |
| Zinc | | 10000 | 6020A |

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Canton Job No: 240-14408-1

SDG No.:

Instrument ID: H1 Date: 04/01/2011 10:45

| Analyte | Integ. Time (Sec.) | Concentration (ppb) | Method |
|---|---|---|---|
| Mercury | | 10 | 7470A |

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-14408-1

SDG No.:

Prep Method: 3005A

| Lab Sample ID | Preparation Date | Prep Batch | Initial Weight | Initial Volume (mL) | Final Volume (mL) |
|---|---|---|---|---|---|
| MB 240-56218/1-A | 08/30/2012 07:45 | 56218 | | 50 | 50 |
| LCS 240-56218/2-A | 08/30/2012 07:45 | 56218 | | 50 | 50 |
| 240-14408-2 | 08/30/2012 07:45 | 56218 | | 50 | 50 |
| 240-14408-2 DU | 08/30/2012 07:45 | 56218 | | 50 | 50 |
| 240-14408-2 MS | 08/30/2012 07:45 | 56218 | | 50 | 50 |
| 240-14408-2 | 08/30/2012 07:45 | 56218 | | 50 | 50 |
| 240-14408-3 | 08/30/2012 07:45 | 56218 | | 50 | 50 |
| 240-14408-3 | 08/30/2012 07:45 | 56218 | | 50 | 50 |
| 240-14408-4 | 08/30/2012 07:45 | 56218 | | 50 | 50 |
| 240-14408-4 | 08/30/2012 07:45 | 56218 | | 50 | 50 |

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-14408-1

SDG No.:

Prep Method: 7470A

| Lab Sample ID | Preparation Date | Prep Batch | Initial Weight | Initial Volume (mL) | Final Volume (mL) |
|---|---|---|---|---|---|
| MB 240-56220/1-A | 08/30/2012 14:00 | 56220 | | 100 | 100 |
| LCS 240-56220/2-A | 08/30/2012 14:00 | 56220 | | 100 | 100 |
| 240-14408-2 | 08/30/2012 14:00 | 56220 | | 100 | 100 |
| 240-14408-2 | 08/30/2012 14:00 | 56220 | | 100 | 100 |
| 240-14408-3 | 08/30/2012 14:00 | 56220 | | 100 | 100 |
| 240-14408-3 | 08/30/2012 14:00 | 56220 | | 100 | 100 |
| 240-14408-4 | 08/30/2012 14:00 | 56220 | | 100 | 100 |
| 240-14408-4 | 08/30/2012 14:00 | 56220 | | 100 | 100 |
| 240-14454-G-4-C DU | 08/30/2012 14:00 | 56220 | | 100 | 100 |
| 240-14454-G-4-D MS | 08/30/2012 14:00 | 56220 | | 100 | 100 |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-14408-1

SDG No.:

Instrument ID: I8 Method: 6020A

Start Date: 09/06/2012 09:53 End Date: 09/06/2012 17:32

| Lab Sample ID | D/F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Ag | As | Ba | Be | Cd | Co | Cr | Cu | Mo | Ni | Pb | Sb | Se | Tl | V | Zn | | | | |
| ICIS 240-57039/1 | | | 09:53 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| STD2 240-57039/2 IC | 1 | | 09:58 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| STD3 240-57039/3 IC | 1 | | 10:05 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| STD4 240-57039/4 IC | 1 | | 10:11 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| ICV 240-57039/5 | 1 | | 10:16 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| ICB 240-57039/6 | 1 | | 10:23 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| CRI 240-57039/7 | | | 10:28 | | | | | | | | | | | | | | | | | | | | |
| CRI 240-57039/8 | 1 | | 10:32 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| ICSA 240-57039/9 | 1 | | 10:38 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| ICSAB 240-57039/10 | 1 | | 10:43 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| CCV 240-57039/11 | 1 | | 10:52 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| CCB 240-57039/12 | 1 | | 10:59 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| MB 240-56218/1-A | 1 | R | 11:04 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| LCS 240-56218/2-A | 1 | R | 11:09 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| 240-14408-2 | 1 | R | 11:16 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| 240-14408-2 SD | 5 | R | 11:22 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| 240-14408-2 DU | 1 | R | 11:27 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| 240-14408-2 MS | 1 | R | 11:32 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| ZZZZZZ | | | 11:40 | | | | | | | | | | | | | | | | | | | | |
| 240-14408-2 | 1 | D | 11:45 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| 240-14408-3 | 1 | R | 11:51 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| 240-14408-3 | 1 | D | 11:57 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| CCV 240-57039/23 | 1 | | 12:02 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| CCB 240-57039/24 | 1 | | 12:09 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| 240-14408-4 | 1 | R | 12:15 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| 240-14408-4 | 1 | D | 12:20 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| ZZZZZZ | | | 12:26 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:31 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:36 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:42 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:47 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:53 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:58 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:04 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-57039/35 | 1 | | 13:09 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| CCB 240-57039/36 | 1 | | 13:16 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| ZZZZZZ | | | 13:22 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:27 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:33 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:38 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:44 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:49 | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-14408-1

SDG No.:

Instrument ID: I8 Method: 6020A

Start Date: 09/06/2012 09:53 End Date: 09/06/2012 17:32

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Ag | As | Ba | Be | Cd | Co | Cr | Cu | Mo | Ni | Pb | Sb | Se | Tl | V | Zn | | | | |
| CRI 240-57039/43 | 1 | | 13:54 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| ZZZZZZ | | | 14:00 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-57039/45 | | | 14:07 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-57039/46 | | | 14:14 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:20 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:25 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-57039/49 | | | 14:33 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-57039/50 | | | 14:40 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:45 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:51 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:56 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:03 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:10 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:16 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:21 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:27 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:32 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:38 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-57039/61 | | | 15:43 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-57039/62 | | | 15:51 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:56 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:02 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:07 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:13 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:18 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:24 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:29 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:40 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:46 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-57039/73 | | | 16:51 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-57039/74 | | | 16:58 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:03 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:09 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:14 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:20 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-57039/79 | | | 17:25 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-57039/80 | | | 17:32 | | | | | | | | | | | | | | | | | | | | |

Prep Types
D = Dissolved
R = Total Recoverable

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-14408-1

SDG No.:

Instrument ID: H1 Method: 7470A

Start Date: 08/31/2012 09:00 End Date: 08/31/2012 11:40

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Hg | | | | | | | | | | | | | | | | | | | | | |
| IC 240-56462/1-A | | | 09:00 | X | | | | | | | | | | | | | | | | | | | | | |
| IC 240-56462/2-A | | | 09:01 | X | | | | | | | | | | | | | | | | | | | | | |
| IC 240-56462/3-A | | | 09:02 | X | | | | | | | | | | | | | | | | | | | | | |
| IC 240-56462/4-A | | | 09:03 | X | | | | | | | | | | | | | | | | | | | | | |
| IC 240-56462/5-A | | | 09:05 | X | | | | | | | | | | | | | | | | | | | | | |
| IC 240-56462/6-A | | | 09:07 | X | | | | | | | | | | | | | | | | | | | | | |
| ICV 240-56462/7-A | 1 | | 09:08 | X | | | | | | | | | | | | | | | | | | | | | |
| ICB 240-56462/8-A | 1 | | 09:10 | X | | | | | | | | | | | | | | | | | | | | | |
| CRA 240-56462/9-A | 1 | | 09:11 | X | | | | | | | | | | | | | | | | | | | | | |
| CCVL 240-56462/10-A | 1 | | 09:13 | X | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-56462/12-A | 1 | | 09:15 | X | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:16 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:17 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:19 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:20 | | | | | | | | | | | | | | | | | | | | | | |
| MB 240-56220/1-A | 1 | T | 09:21 | X | | | | | | | | | | | | | | | | | | | | | |
| LCS 240-56220/2-A | 1 | T | 09:23 | X | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:24 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:25 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:27 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:28 | | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-56462/11-A | 1 | | 09:30 | X | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-56462/12-A | 1 | | 09:31 | X | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:32 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:34 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:36 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:37 | | | | | | | | | | | | | | | | | | | | | | |
| 240-14408-2 | 1 | T | 09:39 | X | | | | | | | | | | | | | | | | | | | | | |
| 240-14408-2 | 1 | D | 09:40 | X | | | | | | | | | | | | | | | | | | | | | |
| 240-14408-3 | 1 | T | 09:42 | X | | | | | | | | | | | | | | | | | | | | | |
| 240-14408-3 | 1 | D | 09:44 | X | | | | | | | | | | | | | | | | | | | | | |
| 240-14408-4 | 1 | T | 09:45 | X | | | | | | | | | | | | | | | | | | | | | |
| 240-14408-4 | 1 | D | 09:47 | X | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-56462/11-A | 1 | | 09:48 | X | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-56462/12-A | 1 | | 09:50 | X | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:51 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:53 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:54 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:56 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:57 | | | | | | | | | | | | | | | | | | | | | | |
| 240-14454-G-4-C DU | 1 | T | 09:59 | X | | | | | | | | | | | | | | | | | | | | | |
| 240-14454-G-4-D MS | 1 | T | 10:00 | X | | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-14408-1

SDG No.:

Instrument ID: H1 Method: 7470A

Start Date: 08/31/2012 09:00 End Date: 08/31/2012 11:40

| Lab Sample ID | D / F | Type | Time | Analytes |
|---|---|---|---|---|
| | | | | Hg |
| ZZZZZZ | | | 10:01 | |
| ZZZZZZ | | | 10:03 | |
| ZZZZZZ | | | 10:05 | |
| CCV 240-56462/11-A | 1 | | 10:06 | X |
| CCB 240-56462/12-A | 1 | | 10:07 | X |
| ZZZZZZ | | | 10:09 | |
| ZZZZZZ | | | 10:11 | |
| ZZZZZZ | | | 10:12 | |
| ZZZZZZ | | | 10:14 | |
| ZZZZZZ | | | 10:16 | |
| ZZZZZZ | | | 10:17 | |
| ZZZZZZ | | | 10:19 | |
| ZZZZZZ | | | 10:21 | |
| ZZZZZZ | | | 10:22 | |
| ZZZZZZ | | | 10:23 | |
| CCV 240-56462/11-A | | | 10:25 | |
| CCB 240-56462/12-A | | | 10:27 | |
| ZZZZZZ | | | 10:28 | |
| ZZZZZZ | | | 10:30 | |
| ZZZZZZ | | | 10:32 | |
| ZZZZZZ | | | 10:34 | |
| ZZZZZZ | | | 10:35 | |
| ZZZZZZ | | | 10:37 | |
| ZZZZZZ | | | 10:38 | |
| ZZZZZZ | | | 10:40 | |
| ZZZZZZ | | | 10:41 | |
| ZZZZZZ | | | 10:42 | |
| CCV 240-56462/11-A | | | 10:44 | |
| CCB 240-56462/12-A | | | 10:45 | |
| ZZZZZZ | | | 10:47 | |
| ZZZZZZ | | | 10:48 | |
| ZZZZZZ | | | 10:50 | |
| ZZZZZZ | | | 10:51 | |
| ZZZZZZ | | | 10:53 | |
| ZZZZZZ | | | 10:54 | |
| ZZZZZZ | | | 10:56 | |
| ZZZZZZ | | | 10:57 | |
| ZZZZZZ | | | 10:59 | |
| ZZZZZZ | | | 11:00 | |
| CCV 240-56462/11-A | | | 11:02 | |
| CCB 240-56462/12-A | | | 11:03 | |
| ZZZZZZ | | | 11:05 | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-14408-1

SDG No.:

Instrument ID: H1 Method: 7470A

Start Date: 08/31/2012 09:00 End Date: 08/31/2012 11:40

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Hg | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:06 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:08 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:09 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:11 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:13 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:14 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:15 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:17 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:19 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-56462/11-A | | | 11:21 | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-56462/12-A | | | 11:22 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:24 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:25 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:27 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:28 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:29 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:31 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-56462/11-A | | | 11:33 | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-56462/12-A | | | 11:34 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:35 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:37 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:38 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:40 | | | | | | | | | | | | | | | | | | | | | |

Prep Types
D = Dissolved
T = Total/NA

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Canton Job No.: 240-14408-1

SDG No.:

ICP-MS Instrument ID: I8 Start Date: 09/06/2012 End Date: 09/06/2012

| Lab Sample ID | Time | Internal Standards %RI For: | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Element Li | Q | Element Sc | Q | Element Sc | Q | Element Ge | Q | Element In | Q |
| STD2 240-57039/2 IC | 09:58 | 96 | | 94 | | 95 | | 93 | | 95 | |
| STD3 240-57039/3 IC | 10:05 | 88 | | 89 | | 92 | | 87 | | 91 | |
| STD4 240-57039/4 IC | 10:11 | 93 | | 88 | | 88 | | 91 | | 93 | |
| ICV 240-57039/5 | 10:16 | 95 | | 91 | | 91 | | 90 | | 93 | |
| ICB 240-57039/6 | 10:23 | 99 | | 87 | | 87 | | 89 | | 91 | |
| CRI 240-57039/8 | 10:32 | 100 | | 93 | | 92 | | 91 | | 95 | |
| ICSA 240-57039/9 | 10:38 | 92 | | 85 | | 89 | | 90 | | 92 | |
| ICSAB 240-57039/10 | 10:43 | 87 | | 85 | | 90 | | 92 | | 93 | |
| CCV 240-57039/11 | 10:52 | 104 | | 94 | | 93 | | 92 | | 94 | |
| CCB 240-57039/12 | 10:59 | 107 | | 93 | | 91 | | 93 | | 95 | |
| MB 240-56218/1-A | 11:04 | 106 | | 93 | | 91 | | 93 | | 95 | |
| LCS 240-56218/2-A | 11:09 | 100 | | 91 | | 92 | | 92 | | 95 | |
| 240-14408-2 | 11:16 | 110 | | 94 | | 93 | | 96 | | 96 | |
| 240-14408-2 SD | 11:22 | 111 | | 98 | | 94 | | 97 | | 98 | |
| 240-14408-2 DU | 11:27 | 110 | | 97 | | 95 | | 97 | | 97 | |
| 240-14408-2 MS | 11:32 | 108 | | 94 | | 93 | | 95 | | 96 | |
| 240-14408-2 | 11:45 | 109 | | 95 | | 94 | | 95 | | 96 | |
| 240-14408-3 | 11:51 | 107 | | 97 | | 96 | | 95 | | 95 | |
| 240-14408-3 | 11:57 | 102 | | 96 | | 95 | | 94 | | 94 | |
| CCV 240-57039/23 | 12:02 | 100 | | 94 | | 94 | | 92 | | 95 | |
| CCB 240-57039/24 | 12:09 | 111 | | 96 | | 93 | | 93 | | 96 | |
| 240-14408-4 | 12:15 | 97 | | 92 | | 91 | | 90 | | 92 | |
| 240-14408-4 | 12:20 | 95 | | 93 | | 91 | | 90 | | 92 | |
| CCV 240-57039/35 | 13:09 | 101 | | 97 | | 97 | | 94 | | 97 | |
| CCB 240-57039/36 | 13:16 | 111 | | 96 | | 94 | | 94 | | 96 | |
| CRI 240-57039/43 | 13:54 | 103 | | 89 | | 86 | | 87 | | 90 | |

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Canton Job No.: 240-14408-1

SDG No.:

ICP-MS Instrument ID: I8 Start Date: 09/06/2012 End Date: 09/06/2012

| Lab Sample ID | Time | Internal Standards %RI For: | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Element Tb | Q | Element Ho | Q | Element Bi | Q | Element | Q | Element | Q |
| STD2 240-57039/2 IC | 09:58 | | | | | 90 | | | | | |
| STD3 240-57039/3 IC | 10:05 | | | | | 83 | | | | | |
| STD4 240-57039/4 IC | 10:11 | | | | | 97 | | | | | |
| ICV 240-57039/5 | 10:16 | | | | | 91 | | | | | |
| ICB 240-57039/6 | 10:23 | | | | | 96 | | | | | |
| CRI 240-57039/8 | 10:32 | | | | | 99 | | | | | |
| ICSA 240-57039/9 | 10:38 | | | | | 89 | | | | | |
| ICSAB 240-57039/10 | 10:43 | | | | | 91 | | | | | |
| CCV 240-57039/11 | 10:52 | | | | | 93 | | | | | |
| CCB 240-57039/12 | 10:59 | | | | | 100 | | | | | |
| MB 240-56218/1-A | 11:04 | | | | | 101 | | | | | |
| LCS 240-56218/2-A | 11:09 | | | | | 100 | | | | | |
| 240-14408-2 | 11:16 | | | | | 99 | | | | | |
| 240-14408-2 SD | 11:22 | | | | | 102 | | | | | |
| 240-14408-2 DU | 11:27 | | | | | 100 | | | | | |
| 240-14408-2 MS | 11:32 | | | | | 99 | | | | | |
| 240-14408-2 | 11:45 | | | | | 99 | | | | | |
| 240-14408-3 | 11:51 | | | | | 93 | | | | | |
| 240-14408-3 | 11:57 | | | | | 93 | | | | | |
| CCV 240-57039/23 | 12:02 | | | | | 94 | | | | | |
| CCB 240-57039/24 | 12:09 | | | | | 102 | | | | | |
| 240-14408-4 | 12:15 | | | | | 92 | | | | | |
| 240-14408-4 | 12:20 | | | | | 91 | | | | | |
| CCV 240-57039/35 | 13:09 | | | | | 96 | | | | | |
| CCB 240-57039/36 | 13:16 | | | | | 102 | | | | | |
| CRI 240-57039/43 | 13:54 | | | | | 97 | | | | | |

MT-MW095-052112



240-14408-h-2-a, 9/6/2012 11:16:36 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

| Run | Time | 6Li | 9Be | 10B |
|---|---|---|---|---|
| | | ppb | ppb | ppb |
| x | | 109.538% | 1.752 | 63.830 |
| %RSD | | 2.545 | 2.144 | 0.436 |
| Run | Time | 23Na | 25Mg | 27Al |
| | | ppb | ppb | ppb |
| x | | 17060.000 | 2037.000 | 906.600 |
| %RSD | | 1.033 | 1.135 | 1.237 |
| Run | Time | 35Cl | 39K | 43Ca |
| | | ppb | ppb | ppb |
| x | | T 0.000 | T 5217.000 | 13390.000 |
| %RSD | | T 0.000 | T 0.967 | 0.598 |
| Run | Time | 45Sc | 45Sc | 47Ti |
| | | ppb | ppb | ppb |
| x | | T 94.138% | 93.117% | 8.845 |
| %RSD | | T 1.263 | 1.984 | 5.436 |
| Run | Time | 51V | 52Cr | 53Cl O |
| | | ppb | ppb | ppb |
| x | | 0.837 | 1.792 | 3.664 |
| %RSD | | 0.157 | 1.136 | 43.210 |
| Run | Time | 55Mn | 56Fe | 59Co |
| | | ppb | ppb | ppb |
| x | | T 279.300 | 1801.000 | 7.555 |
| %RSD | | T 0.302 | 1.093 | 0.464 |
| Run | Time | 60Ni | 65Cu | 66Zn |
| | | ppb | ppb | ppb |
| x | | 12.270 | 2.232 | 42.720 |
| %RSD | | 3.804 | 2.020 | 1.255 |
| Run | Time | 72Ge | 75As | 77Ar Cl |
| | | ppb | ppb | ppb |
| x | | 96.332% | 0.604 | 0.235 |
| %RSD | | 1.963 | 13.570 | 19.490 |
| Run | Time | 78Se | 88Sr | 95Mo |
| | | ppb | ppb | ppb |
| x | | 0.615 | 109.100 | 1.941 |
| %RSD | | 13.810 | 0.528 | 3.247 |
| Run | Time | 105Pd | 107Ag | 108Mo O |
| | | ppb | ppb | ppb |
| x | | 0.000 | 0.007 | -0.380 |
| %RSD | | 0.000 | 52.260 | 241.900 |
| Run | Time | 111Cd | 115In | 118Sn |
| | | ppb | ppb | ppb |
| x | | 0.087 | 95.923% | 2.483 |
| %RSD | | 16.530 | 0.983 | 1.459 |
| Run | Time | 121Sb | 137Ba | 159Tb |
| | | ppb | ppb | ppb |
| x | | 1.945 | 58.610 | 0.000 |
| %RSD | | 4.006 | 1.310 | 0.000 |
| Run | Time | 165Ho | 182W | 205Tl |
| | | ppb | ppb | ppb |
| x | | 0.000 | 0.620 | 0.571 |
| %RSD | | 0.000 | 6.660 | 5.995 |
| Run | Time | 208Pb | 209Bi | |
| | | ppb | ppb | |
| x | | 0.789 | 99.222% | |
| %RSD | | 0.389 | 1.718 | |

Antimony = 1.9 ug/L

**Tetra Tech** **INTERNAL CORRESPONDENCE**

| | | | |
|---|---|---|---|
| **TO:** | **T. APANAVAGE** | **DATE:** | **SEPTEMBER 25, 2012** |
| **FROM:** | **EDWARD SEDLMYER** | **COPIES:** | **DV FILE** |

**SUBJECT:** **ORGANIC AND INORGANIC DATA VALIDATION- VOC/SVOC/TPH/METALS**
**LOCKHEED MARTIN – MSA**
**SDG 240-14454-1**

**SAMPLES:** 4/Aqueous/VOC/SVOC/PCB/PET

MT-MW07S-082212 MT-MW08S-082212 MT-MW10S-082212
TB-082212

Overview

The sample set for Lockheed Martin – MSA, SDG 240-14454-1 consists of three (3) aqueous environmental samples and one (1) trip blank. The samples were analyzed for volatile organic compounds (VOC), semivolatile organic compounds (SVOC), polychlorinated biphenyls (PCB), total petroleum hydrocarbons (TPH C6-10 & TPH C10-32), total and dissolved metals. The trip blank was analyzed for VOCs only.

The samples were collected by Tetra Tech on August 22, 2012 and analyzed by Test America (North Canton). All analyses were conducted in accordance with SW-846 Methods 8260B, 8270D, 8015C, 6020A, and 7470A analytical and reporting protocols.

The data contained in this SDG were validated with regard to the following parameters: data completeness, holding times, GC/MS tuning, initial/continuing calibrations, laboratory method blank results, surrogate spike recoveries, blank spike/blank spike duplicate results, internal standard recoveries, ICP interference results, laboratory duplicate results, ICP serial dilution results, chromatographic resolution, analyte identification, analyte quantitation, and detection limits. Areas of concern are listed below.

Major

- The VOC initial calibration and associated continuing calibration relative response factors (RRFs) were less than the 0.05 quality control limit for tert-butyl alcohol and vinyl acetate on instrument A3UX10. Only non-detected results were reported for tert-butyl alcohol and vinyl acetate and these results were rejected (UR).

Minor

- The following compounds were detected in the organic method blanks at the maximum concentrations indicated below:

| Compound | Concentration | Action Level |
|---|---|---|
| 1,2,3-Trichlorobenzene | 0.325 ug/L | 1.625 ug/L |
| 1,2,4-Trichlorobenzene | 0.219 ug/L | 1.095 ug/L |
| Hexachlorobutadiene | 0.540 ug/L | 2.7 ug/L |
| Naphthalene | 0.246 ug/L | 1.23 ug/L |
| TPH (C6-C10) | 32.0 ug/L | 160 ug/L |
| TPH (C10-C32) | 348 ug/L | 1,740 ug/L |

An action level of 5 times the maximum contaminant concentration was established for 1,2,3-trichlorobenzene, TPH (C6-C10), and TPH (C10-C32) to evaluate laboratory contamination. Dilution factors and sample aliquots were taken into consideration during the application of all action levels. No action was taken on for 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, hexachlorobutadiene, and naphthalene because all results were nondetected. All results for TPH (C6-C10) and TPH (C10-C32) were qualified (B) as a result of laboratory blank contamination.

- The following contaminants were detected in the laboratory method/preparation blanks at the following maximum concentrations:

| Analyte | Maximum Concentration | Action Level |
|---|---|---|
| Barium[(1)] | 0.678 ug/L | 3.39 ug/L |
| Copper[(1)] | 0.514 ug/L | 2.57 ug/L |
| Molybdenum[(2)] | 1.08 ug/L | 5.4 ug/L |
| Thallium[(2)] | 0.376 ug/L | 1.88 ug/L |
| Zinc[(1)] | 6.90 ug/L | 34.5 ug/L |

(1) Maximum concentration present in a method blank affecting all samples.
(2) Maximum concentration present in a preparation blank affecting all samples.

An action level of 5X the maximum contaminant level has been used to evaluate sample data for blank contamination. Sample aliquot and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. The positive results less than the blank action level reported for copper, molybdenum, thallium and zinc were qualified (B) as a result of laboratory blank contamination.

- The CRDL percent recovery for copper was > 110% quality control limit affecting all samples. Positive result < 2X CRDL for copper was qualified (K) as biased high.

- Positive results less than the reporting limit (RL) were qualified as estimated, (J), due to uncertainty near the detection limit.

Notes

The VOC continuing calibration %Ds were greater than the quality control limit of 20% and less than 50% for 1,1,2-trichlorotrifluoroethane, 2-butanone, 1,2,-dichloroethane, 4-methyl-2-pentanone, trans-1,3-dichloropropene, 2-hexanone, and 1,1,2,2-tetrachloroethane for instrument A3UX10 on 09/04/12 @ 10:42. No action was taken on this basis because only nondetected results were reported for the aforementioned compounds in the affected samples.

The VOC MS/MSD associated with batch 56575 had zero percent recoveries for 2-chloroethyl vinyl ether.

No action was taken on this basis because the batch MS/MSD was not performed on a Tetra Tech sample.

The laboratory control sample (LCS) associated with batch 55629 had a percent recovery greater than the quality control limit for benzaldehyde. No action was taken on this basis because only nondetects were reported for benzaldehyde.

The CRDL percent recoveries for cadmium, nickel, silver, and zinc were > 110% quality control limit affecting all samples. However, no validation actions were required as all sample results were either > 2X CRDL or nondetects

Naphthalene and hexachlorobutadiene were reported in both the VOC and SVOC analytical fractions. No validation action was taken on this basis.

**Executive Summary**

**Laboratory Performance:** Two VOC compounds had RRF noncompliances resulting in the rejection of data. Blank contamination for the TPH (C6-C10), TPH (C10-C32), total and dissolved metals fraction resulted in the qualification of data. The CRDL percent recoveries for several analytes were outside the 90-110% quality control limits.

**Other Factors Affecting Data Quality:** Positive results less than the reporting limit (RL) were qualified as estimated, (J), due to uncertainty near the detection limit.

The data for these analyses were reviewed with reference to Region III modifications to U.S. EPA National Functional Guidelines for Organic Data Validation (Sept. 1994) and Region III modifications to the National Functional Guidelines for Inorganic Data Validation (April 1993). The text of this report has been formulated to address only those problem areas affecting data quality.

for Tetra Tech
Edward Sedlmyer
Chemist/Data Validator

Tetra Tech
Joseph A. Samchuck
Quality Assurance Officer

Attachments:
Appendix A – Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
Appendix C – Support Documentation

**Appendix A**

Qualified Analytical Results

**Qualifier Codes:**

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = ICP PDS Recovery Noncompliance; MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = RPD between columns/detectors >40% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 standard deviations is greater than sample activity
Z1 = Tentatively Identified Compound considered presumptively present
Z2 = Tentatively Identified Compound column bleed

| PROJ_NO: 04054 | NSAMPLE | MT-MW07S-082212 | | | MT-MW08S-082212 | | | MT-MW10S-082212 | | | TB-082212 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-14454-1 | LAB_ID | 240-14454-2 | | | 240-14454-3 | | | 240-14454-4 | | | 240-14454-1 | | |
| FRACTION: OV | SAMP_DATE | 8/22/2012 | | | 8/22/2012 | | | 8/22/2012 | | | 8/22/2012 | | |
| MEDIA: WATER | QC_TYPE | NM | | | NM | | | NM | | | NM | | |
| | UNITS | UG/L | | | UG/L | | | UG/L | | | UG/L | | |
| | PCT_SOLIDS | 0.0 | | | 0.0 | | | 0.0 | | | 0.0 | | |
| | DUP_OF | | | | | | | | | | | | |
| PARAMETER | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| 1,1,1,2-TETRACHLOROETHANE | 0.23 | U | | 0.23 | U | | 0.23 | U | | 0.23 | U | |
| 1,1,1-TRICHLOROETHANE | 0.22 | U | | 0.22 | U | | 0.22 | U | | 0.22 | U | |
| 1,1,2,2-TETRACHLOROETHANE | 0.18 | U | | 0.18 | U | | 0.18 | U | | 0.18 | U | |
| 1,1,2-TRICHLOROTRIFLUOROETHANE | 0.28 | U | | 0.28 | U | | 0.28 | U | | 0.28 | U | |
| 1,1-DICHLOROETHANE | 0.15 | U | | 0.15 | U | | 0.15 | U | | 0.15 | U | |
| 1,1-DICHLOROETHENE | 0.19 | U | | 0.19 | U | | 0.19 | U | | 0.19 | U | |
| 1,1-DICHLOROPROPENE | 0.13 | U | | 0.13 | U | | 0.13 | U | | 0.13 | U | |
| 1,2,3-TRICHLOROBENZENE | 0.17 | U | | 0.17 | U | | 0.17 | U | | 0.17 | U | |
| 1,2,3-TRICHLOROPROPANE | 0.43 | U | | 0.43 | U | | 0.43 | U | | 0.43 | U | |
| 1,2,3-TRIMETHYLBENZENE | 0.0059 | U | | 0.0059 | U | | 0.0059 | U | | 0.0059 | U | |
| 1,2,4-TRICHLOROBENZENE | 0.15 | U | | 0.15 | U | | 0.15 | U | | 0.15 | U | |
| 1,2,4-TRIMETHYLBENZENE | 0.12 | U | | 0.12 | U | | 0.12 | U | | 0.12 | U | |
| 1,2-DIBROMO-3-CHLOROPROPANE | 0.67 | U | | 0.67 | U | | 0.67 | U | | 0.67 | U | |
| 1,2-DIBROMOETHANE | 0.24 | U | | 0.24 | U | | 0.24 | U | | 0.24 | U | |
| 1,2-DICHLOROBENZENE | 0.13 | U | | 0.13 | U | | 0.13 | U | | 0.13 | U | |
| 1,2-DICHLOROETHANE | 0.22 | U | | 0.22 | U | | 0.22 | U | | 0.22 | U | |
| 1,2-DICHLOROPROPANE | 0.18 | U | | 0.18 | U | | 0.18 | U | | 0.18 | U | |
| 1,3-DICHLOROBENZENE | 0.14 | U | | 0.14 | U | | 0.14 | U | | 0.14 | U | |
| 1,3-DICHLOROPROPANE | 0.16 | U | | 0.16 | U | | 0.16 | U | | 0.16 | U | |
| 1,4-DICHLOROBENZENE | 0.13 | U | | 0.13 | U | | 0.13 | U | | 0.13 | U | |
| 2,2-DICHLOROPROPANE | 0.13 | U | | 0.13 | U | | 0.13 | U | | 0.13 | U | |
| 2-BUTANONE | 0.57 | U | | 0.57 | U | | 0.57 | U | | 0.57 | U | |
| 2-CHLOROETHYL VINYL ETHER | 0.99 | U | | 0.99 | U | | 0.99 | U | | 0.99 | U | |
| 2-CHLOROTOLUENE | 0.11 | U | | 0.11 | U | | 0.11 | U | | 0.11 | U | |
| 2-HEXANONE | 0.41 | U | | 0.41 | U | | 0.41 | U | | 0.41 | U | |
| 4-CHLOROTOLUENE | 0.18 | U | | 0.18 | U | | 0.18 | U | | 0.18 | U | |
| 4-ISOPROPYLTOLUENE | 0.12 | U | | 0.12 | U | | 0.12 | U | | 0.12 | U | |
| 4-METHYL-2-PENTANONE | 0.32 | U | | 0.32 | U | | 0.32 | U | | 0.32 | U | |
| ACETONE | 1.1 | U | | 2.8 | J | P | 1.1 | U | | 1.1 | U | |
| BENZENE | 0.13 | U | | 0.13 | U | | 1.9 | | | 0.13 | U | |
| BROMOBENZENE | 0.13 | U | | 0.13 | U | | 0.13 | U | | 0.13 | U | |
| BROMOCHLOROMETHANE | 0.29 | U | | 0.29 | U | | 0.29 | U | | 0.29 | U | |
| BROMODICHLOROMETHANE | 0.15 | U | | 0.15 | U | | 0.15 | U | | 0.15 | U | |
| BROMOFORM | 0.64 | U | | 0.64 | U | | 0.64 | U | | 0.64 | U | |
| BROMOMETHANE | 0.41 | U | | 0.41 | U | | 0.41 | U | | 0.41 | U | |

| PROJ_NO: 04054 | NSAMPLE | MT-MW07S-082212 | | | MT-MW08S-082212 | | | MT-MW10S-082212 | | | TB-082212 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-14454-1 | LAB_ID | 240-14454-2 | | | 240-14454-3 | | | 240-14454-4 | | | 240-14454-1 | | |
| FRACTION: OV | SAMP_DATE | 8/22/2012 | | | 8/22/2012 | | | 8/22/2012 | | | 8/22/2012 | | |
| MEDIA: WATER | QC_TYPE | NM | | | NM | | | NM | | | NM | | |
| | UNITS | UG/L | | | UG/L | | | UG/L | | | UG/L | | |
| | PCT_SOLIDS | 0.0 | | | 0.0 | | | 0.0 | | | 0.0 | | |
| | DUP_OF | | | | | | | | | | | | |
| PARAMETER | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| CARBON DISULFIDE | 0.16 | J | P | 1.3 | | | 0.67 | J | P | 0.13 | U | |
| CARBON TETRACHLORIDE | 0.13 | U | | 0.13 | U | | 0.13 | U | | 0.13 | U | |
| CHLOROBENZENE | 0.15 | U | | 0.15 | U | | 0.15 | U | | 0.15 | U | |
| CHLORODIBROMOMETHANE | 0.18 | U | | 0.18 | U | | 0.18 | U | | 0.18 | U | |
| CHLOROETHANE | 0.29 | U | | 0.29 | U | | 0.29 | U | | 0.29 | U | |
| CHLOROFORM | 0.16 | U | | 0.16 | U | | 0.16 | U | | 0.16 | U | |
| CHLOROMETHANE | 0.3 | U | | 0.37 | J | P | 0.3 | U | | 0.3 | U | |
| CIS-1,2-DICHLOROETHENE | 0.17 | U | | 0.17 | U | | 0.17 | U | | 0.17 | U | |
| CIS-1,3-DICHLOROPROPENE | 0.14 | U | | 0.14 | U | | 0.14 | U | | 0.14 | U | |
| DIBROMOMETHANE | 0.28 | U | | 0.28 | U | | 0.28 | U | | 0.28 | U | |
| DICHLORODIFLUOROMETHANE | 0.31 | U | | 0.31 | U | | 0.31 | U | | 0.31 | U | |
| DIISOPROPYL ETHER | 1.5 | U | | 1.5 | U | | 1.5 | U | | 1.5 | U | |
| ETHYL TERT-BUTYL ETHER | 0.11 | U | | 0.11 | U | | 0.11 | U | | 0.11 | U | |
| ETHYLBENZENE | 0.17 | U | | 0.17 | U | | 0.17 | U | | 0.17 | U | |
| HEXACHLOROBUTADIENE | 0.3 | U | | 0.3 | U | | 0.3 | U | | 0.3 | U | |
| ISOPROPYLBENZENE | 0.13 | U | | 0.13 | U | | 0.13 | U | | 0.13 | U | |
| M+P-XYLENES | 0.24 | U | | 0.24 | U | | 0.24 | U | | 0.24 | U | |
| METHYL TERT-BUTYL ETHER | 0.17 | U | | 0.17 | U | | 0.17 | U | | 0.17 | U | |
| METHYLENE CHLORIDE | 0.33 | U | | 0.33 | U | | 0.33 | U | | 0.33 | U | |
| NAPHTHALENE | 0.24 | U | | 0.24 | U | | 0.24 | U | | 0.24 | U | |
| N-BUTYLBENZENE | 0.12 | U | | 0.12 | U | | 0.12 | U | | 0.12 | U | |
| N-PROPYLBENZENE | 0.14 | U | | 0.14 | U | | 0.14 | U | | 0.14 | U | |
| O-XYLENE | 0.14 | U | | 0.14 | U | | 0.14 | U | | 0.14 | U | |
| SEC-BUTYLBENZENE | 0.13 | U | | 0.13 | U | | 0.13 | U | | 0.13 | U | |
| STYRENE | 0.11 | U | | 0.11 | U | | 0.11 | U | | 0.11 | U | |
| TERT-AMYL METHYL ETHER | 0.067 | U | | 0.067 | U | | 0.067 | U | | 0.067 | U | |
| TERT-BUTYLBENZENE | 0.13 | U | | 0.13 | U | | 0.13 | U | | 0.13 | U | |
| TERTIARY-BUTYL ALCOHOL | 3.9 | UR | C | 3.9 | UR | C | 3.9 | UR | C | 3.9 | UR | C |
| TETRACHLOROETHENE | 0.29 | U | | 0.29 | U | | 0.29 | U | | 0.29 | U | |
| TOLUENE | 0.13 | U | | 0.16 | J | P | 0.27 | J | P | 0.13 | U | |
| TOTAL XYLENES | 0.28 | U | | 0.28 | U | | 0.28 | U | | 0.28 | U | |
| TRANS-1,2-DICHLOROETHENE | 0.19 | U | | 0.19 | U | | 0.19 | U | | 0.19 | U | |
| TRANS-1,3-DICHLOROPROPENE | 0.19 | U | | 0.19 | U | | 0.19 | U | | 0.19 | U | |
| TRICHLOROETHENE | 0.17 | U | | 0.17 | U | | 0.17 | U | | 0.17 | U | |
| TRICHLOROFLUOROMETHANE | 0.21 | U | | 0.21 | U | | 0.21 | U | | 0.21 | U | |

| PROJ_NO: 04054 | NSAMPLE | MT-MW07S-082212 | | | MT-MW08S-082212 | | | MT-MW10S-082212 | | | TB-082212 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-14454-1 | LAB_ID | 240-14454-2 | | | 240-14454-3 | | | 240-14454-4 | | | 240-14454-1 | | |
| FRACTION: OV | SAMP_DATE | 8/22/2012 | | | 8/22/2012 | | | 8/22/2012 | | | 8/22/2012 | | |
| MEDIA: WATER | QC_TYPE | NM | | | NM | | | NM | | | NM | | |
| | UNITS | UG/L | | | UG/L | | | UG/L | | | UG/L | | |
| | PCT_SOLIDS | 0.0 | | | 0.0 | | | 0.0 | | | 0.0 | | |
| | DUP_OF | | | | | | | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| VINYL ACETATE | | 0.19 | UR | C | 0.19 | UR | C | 0.19 | UR | C | 0.19 | UR | C |
| VINYL CHLORIDE | | 0.22 | U | | 0.22 | U | | 0.22 | U | | 0.22 | U | |

| PROJ_NO: 04054 | NSAMPLE | MT-MW07S-082212 | | | MT-MW08S-082212 | | | MT-MW10S-082212 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-14454-1 | LAB_ID | 240-14454-2 | | | 240-14454-3 | | | 240-14454-4 | | |
| FRACTION: OS | SAMP_DATE | 8/22/2012 | | | 8/22/2012 | | | 8/22/2012 | | |
| MEDIA: WATER | QC_TYPE | NM | | | NM | | | NM | | |
| | UNITS | UG/L | | | UG/L | | | UG/L | | |
| | PCT_SOLIDS | 0.0 | | | 0.0 | | | 0.0 | | |
| | DUP_OF | | | | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| 1,1-BIPHENYL | | 0.78 | U | | 0.76 | U | | 0.76 | U | |
| 1,4-DIOXANE | | 0.48 | U | | 0.47 | U | | 0.47 | U | |
| 2,2'-OXYBIS(1-CHLOROPROPANE) | | 0.39 | U | | 0.38 | U | | 0.38 | U | |
| 2,4,5-TRICHLOROPHENOL | | 0.29 | U | | 0.29 | U | | 0.29 | U | |
| 2,4,6-TRICHLOROPHENOL | | 0.78 | U | | 0.76 | U | | 0.76 | U | |
| 2,4-DICHLOROPHENOL | | 0.78 | U | | 0.76 | U | | 0.76 | U | |
| 2,4-DIMETHYLPHENOL | | 0.78 | U | | 0.76 | U | | 0.76 | U | |
| 2,4-DINITROPHENOL | | 2.4 | U | | 2.3 | U | | 2.3 | U | |
| 2,4-DINITROTOLUENE | | 0.26 | U | | 0.26 | U | | 0.26 | U | |
| 2,6-DINITROTOLUENE | | 0.78 | U | | 0.76 | U | | 0.76 | U | |
| 2-CHLORONAPHTHALENE | | 0.098 | U | | 0.095 | U | | 0.095 | U | |
| 2-CHLOROPHENOL | | 0.28 | U | | 0.28 | U | | 0.28 | U | |
| 2-METHYLNAPHTHALENE | | 0.098 | U | | 0.095 | U | | 0.095 | U | |
| 2-METHYLPHENOL | | 0.78 | U | | 0.76 | U | | 0.76 | U | |
| 2-NITROANILINE | | 0.78 | U | | 0.76 | U | | 0.76 | U | |
| 2-NITROPHENOL | | 0.27 | U | | 0.27 | U | | 0.27 | U | |
| 3&4-METHYLPHENOL | | 0.74 | U | | 0.71 | U | | 0.71 | U | |
| 3,3'-DICHLOROBENZIDINE | | 0.36 | U | | 0.35 | U | | 0.35 | U | |
| 3-NITROANILINE | | 0.27 | U | | 0.27 | U | | 0.27 | U | |
| 4,6-DINITRO-2-METHYLPHENOL | | 2.4 | U | | 2.3 | U | | 2.3 | U | |
| 4-BROMOPHENYL PHENYL ETHER | | 0.78 | U | | 0.76 | U | | 0.76 | U | |
| 4-CHLORO-3-METHYLPHENOL | | 0.78 | U | | 0.76 | U | | 0.76 | U | |
| 4-CHLOROANILINE | | 0.78 | U | | 0.76 | U | | 0.76 | U | |
| 4-CHLOROPHENYL PHENYL ETHER | | 0.29 | U | | 0.29 | U | | 0.29 | U | |
| 4-NITROANILINE | | 0.78 | U | | 0.76 | U | | 0.76 | U | |
| 4-NITROPHENOL | | 2.4 | U | | 2.3 | U | | 2.3 | U | |
| ACENAPHTHENE | | 0.098 | U | | 0.095 | U | | 0.095 | U | |
| ACENAPHTHYLENE | | 0.098 | U | | 0.095 | U | | 0.095 | U | |
| ACETOPHENONE | | 0.33 | U | | 0.32 | U | | 0.32 | U | |
| ANTHRACENE | | 0.098 | U | | 0.095 | U | | 0.095 | U | |
| ATRAZINE | | 0.33 | U | | 0.32 | U | | 0.32 | U | |
| BENZALDEHYDE | | 0.38 | U | | 0.37 | U | | 0.37 | U | |
| BENZO(A)ANTHRACENE | | 0.098 | U | | 0.095 | U | | 0.095 | U | |
| BENZO(A)PYRENE | | 0.098 | U | | 0.095 | U | | 0.095 | U | |
| BENZO(B)FLUORANTHENE | | 0.098 | U | | 0.095 | U | | 0.095 | U | |

| PROJ_NO: 04054 | NSAMPLE | MT-MW07S-082212 | | | MT-MW08S-082212 | | | MT-MW10S-082212 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-14454-1 | LAB_ID | 240-14454-2 | | | 240-14454-3 | | | 240-14454-4 | | |
| FRACTION: OS | SAMP_DATE | 8/22/2012 | | | 8/22/2012 | | | 8/22/2012 | | |
| MEDIA: WATER | QC_TYPE | NM | | | NM | | | NM | | |
| | UNITS | UG/L | | | UG/L | | | UG/L | | |
| | PCT_SOLIDS | 0.0 | | | 0.0 | | | 0.0 | | |
| | DUP_OF | | | | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| BENZO(G,H,I)PERYLENE | | 0.098 | U | | 0.095 | U | | 0.095 | U | |
| BENZO(K)FLUORANTHENE | | 0.098 | U | | 0.095 | U | | 0.095 | U | |
| BIS(2-CHLOROETHOXY)METHANE | | 0.31 | U | | 0.3 | U | | 0.3 | U | |
| BIS(2-CHLOROETHYL)ETHER | | 0.098 | U | | 0.095 | U | | 0.095 | U | |
| BIS(2-ETHYLHEXYL)PHTHALATE | | 0.91 | J | P | 0.79 | J | P | 0.76 | U | |
| BUTYL BENZYL PHTHALATE | | 0.78 | U | | 0.76 | U | | 0.76 | U | |
| CAPROLACTAM | | 0.78 | U | | 0.78 | J | P | 0.76 | U | |
| CARBAZOLE | | 0.27 | U | | 0.27 | U | | 0.27 | U | |
| CHRYSENE | | 0.098 | U | | 0.095 | U | | 0.095 | U | |
| DIBENZO(A,H)ANTHRACENE | | 0.098 | U | | 0.095 | U | | 0.095 | U | |
| DIBENZOFURAN | | 0.098 | U | | 0.095 | U | | 0.095 | U | |
| DIETHYL PHTHALATE | | 0.59 | U | | 0.57 | U | | 0.57 | U | |
| DIMETHYL PHTHALATE | | 0.28 | U | | 0.28 | U | | 0.28 | U | |
| DI-N-BUTYL PHTHALATE | | 0.66 | U | | 0.64 | U | | 0.64 | U | |
| DI-N-OCTYL PHTHALATE | | 0.78 | U | | 0.76 | U | | 0.76 | U | |
| FLUORANTHENE | | 0.098 | U | | 0.095 | U | | 0.095 | U | |
| FLUORENE | | 0.098 | U | | 0.095 | U | | 0.095 | U | |
| HEXACHLOROBENZENE | | 0.098 | U | | 0.095 | U | | 0.095 | U | |
| HEXACHLOROBUTADIENE | | 0.26 | U | | 0.26 | U | | 0.26 | U | |
| HEXACHLOROCYCLOPENTADIENE | | 0.78 | U | | 0.76 | U | | 0.76 | U | |
| HEXACHLOROETHANE | | 0.78 | U | | 0.76 | U | | 0.76 | U | |
| INDENO(1,2,3-CD)PYRENE | | 0.098 | U | | 0.095 | U | | 0.095 | U | |
| ISOPHORONE | | 0.26 | U | | 0.26 | U | | 0.26 | U | |
| NAPHTHALENE | | 0.098 | U | | 0.095 | U | | 0.095 | U | |
| NITROBENZENE | | 0.039 | U | | 0.038 | U | | 0.038 | U | |
| N-NITROSODIMETHYLAMINE | | 0.3 | U | | 0.3 | U | | 0.3 | U | |
| N-NITROSO-DI-N-PROPYLAMINE | | 0.78 | U | | 0.76 | U | | 0.76 | U | |
| N-NITROSODIPHENYLAMINE | | 0.3 | U | | 0.3 | U | | 0.3 | U | |
| PENTACHLOROPHENOL | | 2.4 | U | | 2.3 | U | | 2.3 | U | |
| PHENANTHRENE | | 0.098 | U | | 0.095 | U | | 0.095 | U | |
| PHENOL | | 0.59 | U | | 0.57 | U | | 0.57 | U | |
| PYRENE | | 0.098 | U | | 0.095 | U | | 0.095 | U | |

| PROJ_NO: 04054 | NSAMPLE | MT-MW07S-082212 | | | MT-MW08S-082212 | | | MT-MW10S-082212 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-14454-1 | LAB_ID | 240-14454-2 | | | 240-14454-3 | | | 240-14454-4 | | |
| FRACTION: PET | SAMP_DATE | 8/22/2012 | | | 8/22/2012 | | | 8/22/2012 | | |
| MEDIA: WATER | QC_TYPE | NM | | | NM | | | NM | | |
| | UNITS | UG/L | | | UG/L | | | UG/L | | |
| | PCT_SOLIDS | 0.0 | | | 0.0 | | | 0.0 | | |
| | DUP_OF | | | | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| TPH (C06-C10) | | 36 | B | A | 40 | B | A | 41 | B | A |
| TPH (C10-C32) | | 400 | B | A | 240 | U | | 330 | B | A |

| PROJ_NO: 04054 | NSAMPLE | MT-MW07S-082212 | | | MT-MW08S-082212 | | | MT-MW10S-082212 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-14454-1 | LAB_ID | 240-14454-2 | | | 240-14454-3 | | | 240-14454-4 | | |
| FRACTION: M | SAMP_DATE | 8/22/2012 | | | 8/22/2012 | | | 8/22/2012 | | |
| MEDIA: WATER | QC_TYPE | NM | | | NM | | | NM | | |
| | UNITS | UG/L | | | UG/L | | | UG/L | | |
| | PCT_SOLIDS | 0.0 | | | 0.0 | | | 0.0 | | |
| | DUP_OF | | | | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| ANTIMONY | | 0.17 | J | P | 0.4 | J | P | 0.15 | J | P |
| ARSENIC | | 0.4 | U | | 0.4 | U | | 0.56 | J | P |
| BARIUM | | 20 | | | 63 | | | 63 | | |
| BERYLLIUM | | 3 | | | 0.2 | U | | 23 | | |
| CADMIUM | | 0.13 | U | | 0.13 | U | | 0.13 | U | |
| CHROMIUM | | 5.2 | | | 1.8 | J | P | 2.5 | | |
| COBALT | | 20 | | | 5.9 | | | 250 | | |
| COPPER | | 3.4 | K | C | 2.1 | B | A | 1.5 | B | A |
| LEAD | | 0.55 | J | P | 0.29 | J | P | 0.44 | J | P |
| MERCURY | | 0.39 | | | 0.12 | U | | 0.12 | U | |
| MOLYBDENUM | | 0.22 | B | A | 0.67 | B | A | 0.34 | B | A |
| NICKEL | | 31 | | | 11 | | | 380 | | |
| SELENIUM | | 0.57 | U | | 0.57 | U | | 0.57 | U | |
| SILVER | | 0.08 | U | | 0.08 | U | | 0.08 | U | |
| THALLIUM | | 0.16 | B | A | 0.14 | U | | 0.2 | B | A |
| VANADIUM | | 2.4 | J | P | 0.61 | J | P | 0.53 | J | P |
| ZINC | | 53 | | | 12 | B | A | 370 | | |

| PROJ_NO: 04054 | NSAMPLE | MT-MW07S-082212 | | | MT-MW08S-082212 | | | MT-MW10S-082212 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SDG: 240-14454-1 | LAB_ID | 240-14454-2 | | | 240-14454-3 | | | 240-14454-4 | | |
| FRACTION: MF | SAMP_DATE | 8/22/2012 | | | 8/22/2012 | | | 8/22/2012 | | |
| MEDIA: WATER | QC_TYPE | NM | | | NM | | | NM | | |
| | UNITS | UG/L | | | UG/L | | | UG/L | | |
| | PCT_SOLIDS | 0.0 | | | 0.0 | | | 0.0 | | |
| | DUP_OF | | | | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| ANTIMONY | | 0.13 | J | P | 0.31 | J | P | 0.14 | J | P |
| ARSENIC | | 0.4 | U | | 0.4 | U | | 0.4 | U | |
| BARIUM | | 17 | | | 62 | | | 62 | | |
| BERYLLIUM | | 2.9 | | | 0.2 | U | | 22 | | |
| CADMIUM | | 0.13 | U | | 0.13 | U | | 0.13 | U | |
| CHROMIUM | | 0.71 | U | | 0.71 | U | | 0.71 | U | |
| COBALT | | 21 | | | 5.5 | | | 250 | | |
| COPPER | | 1.5 | B | A | 1.4 | B | A | 0.29 | B | A |
| LEAD | | 0.18 | U | | 0.18 | U | | 0.18 | U | |
| MERCURY | | 0.12 | U | | 0.12 | U | | 0.12 | U | |
| MOLYBDENUM | | 0.11 | B | A | 0.69 | B | A | 0.23 | B | A |
| NICKEL | | 31 | | | 11 | | | 370 | | |
| SELENIUM | | 0.57 | U | | 0.57 | U | | 0.57 | U | |
| SILVER | | 0.08 | U | | 0.08 | U | | 0.08 | U | |
| THALLIUM | | 0.14 | B | A | 0.14 | U | | 0.19 | B | A |
| VANADIUM | | 0.44 | U | | 0.44 | U | | 0.44 | U | |
| ZINC | | 51 | | | 12 | B | A | 360 | | |

## Appendix B

Results as Reported by the Laboratory

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Client Sample ID: MT-MW07S-082212 Lab Sample ID: 240-14454-2

Matrix: Water Lab File ID: UXX8680.D

Analysis Method: 8260B Date Collected: 08/22/2012 11:10

Sample wt/vol: 5(mL) Date Analyzed: 09/04/2012 16:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 56575 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.23 |
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 1.0 | 0.22 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.18 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trichfluoroeth ane | 1.0 | U | 1.0 | 0.28 |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.15 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.19 |
| 563-58-6 | 1,1-Dichloropropene | 1.0 | U | 1.0 | 0.13 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 1.0 | 0.17 |
| 96-18-4 | 1,2,3-Trichloropropane | 1.0 | U | 1.0 | 0.43 |
| 526-73-8 | 1,2,3-Trimethylbenzene | 5.0 | U | 5.0 | 0.0059 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.15 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.12 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 2.0 | U | 2.0 | 0.67 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.13 |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.22 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.18 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.14 |
| 142-28-9 | 1,3-Dichloropropane | 1.0 | U | 1.0 | 0.16 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.13 |
| 594-20-7 | 2,2-Dichloropropane | 1.0 | U | 1.0 | 0.13 |
| 110-75-8 | 2-Chloroethyl vinyl ether | 10 | U | 10 | 0.99 |
| 95-49-8 | 2-Chlorotoluene | 1.0 | U | 1.0 | 0.11 |
| 591-78-6 | 2-Hexanone | 10 | U | 10 | 0.41 |
| 108-86-1 | Bromobenzene | 1.0 | U | 1.0 | 0.13 |
| 74-97-5 | Bromochloromethane | 1.0 | U | 1.0 | 0.29 |
| 106-43-4 | 4-Chlorotoluene | 1.0 | U | 1.0 | 0.18 |
| 99-87-6 | p-Isopropyltoluene | 1.0 | U | 1.0 | 0.12 |
| 67-64-1 | Acetone | 10 | U | 10 | 1.1 |
| 71-43-2 | Benzene | 1.0 | U | 1.0 | 0.13 |
| 75-25-2 | Bromoform | 1.0 | U | 1.0 | 0.64 |
| 74-83-9 | Bromomethane | 1.0 | U | 1.0 | 0.41 |
| 75-15-0 | Carbon disulfide | 0.16 | J | 1.0 | 0.13 |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 1.0 | 0.13 |
| 108-90-7 | Chlorobenzene | 1.0 | U | 1.0 | 0.15 |
| 75-00-3 | Chloroethane | 1.0 | U | 1.0 | 0.29 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-14454-1

SDG No.:

Client Sample ID: MT-MW07S-082212  Lab Sample ID: 240-14454-2

Matrix: Water  Lab File ID: UXX8680.D

Analysis Method: 8260B  Date Collected: 08/22/2012 11:10

Sample wt/vol: 5(mL)  Date Analyzed: 09/04/2012 16:15

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 56575  Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 67-66-3 | Chloroform | 1.0 | U | 1.0 | 0.16 |
| 74-87-3 | Chloromethane | 1.0 | U | 1.0 | 0.30 |
| 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.17 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.14 |
| 87-68-3 | Hexachlorobutadiene | 1.0 | U | 1.0 | 0.30 |
| 74-95-3 | Dibromomethane | 1.0 | U | 1.0 | 0.28 |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 1.0 | 0.15 |
| 75-71-8 | Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.31 |
| 100-41-4 | Ethylbenzene | 1.0 | U | 1.0 | 0.17 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.24 |
| 108-20-3 | Diisopropyl ether | 10 | U | 10 | 1.5 |
| 91-20-3 | Naphthalene | 1.0 | U | 1.0 | 0.24 |
| 179601-23-1 | m-Xylene & p-Xylene | 2.0 | U | 2.0 | 0.24 |
| 104-51-8 | n-Butylbenzene | 1.0 | U | 1.0 | 0.12 |
| 98-82-8 | Isopropylbenzene | 1.0 | U | 1.0 | 0.13 |
| 103-65-1 | n-Propylbenzene | 1.0 | U | 1.0 | 0.14 |
| 78-93-3 | 2-Butanone | 10 | U | 10 | 0.57 |
| 108-10-1 | 4-Methyl-2-pentanone | 10 | U | 10 | 0.32 |
| 135-98-8 | sec-Butylbenzene | 1.0 | U | 1.0 | 0.13 |
| 1634-04-4 | Methyl tert-butyl ether | 5.0 | U | 5.0 | 0.17 |
| 994-05-8 | Tert-amyl-methyl ether (TAME) | 5.0 | U | 5.0 | 0.067 |
| 75-09-2 | Methylene Chloride | 1.0 | U | 1.0 | 0.33 |
| 95-47-6 | o-Xylene | 1.0 | U | 1.0 | 0.14 |
| 100-42-5 | Styrene | 1.0 | U | 1.0 | 0.11 |
| 637-92-3 | Ethyl-t-butyl ether (ETBE) | 5.0 | U | 5.0 | 0.11 |
| 98-06-6 | tert-Butylbenzene | 1.0 | U | 1.0 | 0.13 |
| 127-18-4 | Tetrachloroethene | 1.0 | U | 1.0 | 0.29 |
| 108-88-3 | Toluene | 1.0 | U | 1.0 | 0.13 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.19 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.19 |
| 79-01-6 | Trichloroethene | 1.0 | U | 1.0 | 0.17 |
| 75-69-4 | Trichlorofluoromethane | 1.0 | U | 1.0 | 0.21 |
| 108-05-4 | Vinyl acetate | 2.0 | U | 2.0 | 0.19 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 1.0 | 0.22 |
| 75-65-0 | tert-Butyl alcohol | 50 | U | 50 | 3.9 |
| 1330-20-7 | Xylenes, Total | 2.0 | U | 2.0 | 0.28 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-14454-1

SDG No.:

Client Sample ID: MT-MW07S-082212  Lab Sample ID: 240-14454-2

Matrix: Water  Lab File ID: UXX8680.D

Analysis Method: 8260B  Date Collected: 08/22/2012 11:10

Sample wt/vol: 5(mL)  Date Analyzed: 09/04/2012 16:15

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 56575  Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | 1.0 | U | 1.0 | 0.18 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 72 | | 63-129 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 88 | | 66-117 |
| 2037-26-5 | Toluene-d8 (Surr) | 88 | | 74-115 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 105 | | 75-121 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Client Sample ID: MT-MW07S-082212 Lab Sample ID: 240-14454-2

Matrix: Water Lab File ID: UXX8680.D

Analysis Method: 8260B Date Collected: 08/22/2012 11:10

Sample wt/vol: 5(mL) Date Analyzed: 09/04/2012 16:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 56575 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| | Tentatively Identified Compound | | None | |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-14454-1

SDG No.:

Client Sample ID: MT-MW08S-082212 | Lab Sample ID: 240-14454-3

Matrix: Water | Lab File ID: UXX8681.D

Analysis Method: 8260B | Date Collected: 08/22/2012 09:40

Sample wt/vol: 5(mL) | Date Analyzed: 09/04/2012 16:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 56575 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.23 |
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 1.0 | 0.22 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.18 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trichfluoroeth ane | 1.0 | U | 1.0 | 0.28 |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.15 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.19 |
| 563-58-6 | 1,1-Dichloropropene | 1.0 | U | 1.0 | 0.13 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 1.0 | 0.17 |
| 96-18-4 | 1,2,3-Trichloropropane | 1.0 | U | 1.0 | 0.43 |
| 526-73-8 | 1,2,3-Trimethylbenzene | 5.0 | U | 5.0 | 0.0059 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.15 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.12 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 2.0 | U | 2.0 | 0.67 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.13 |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.22 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.18 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.14 |
| 142-28-9 | 1,3-Dichloropropane | 1.0 | U | 1.0 | 0.16 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.13 |
| 594-20-7 | 2,2-Dichloropropane | 1.0 | U | 1.0 | 0.13 |
| 110-75-8 | 2-Chloroethyl vinyl ether | 10 | U | 10 | 0.99 |
| 95-49-8 | 2-Chlorotoluene | 1.0 | U | 1.0 | 0.11 |
| 591-78-6 | 2-Hexanone | 10 | U | 10 | 0.41 |
| 108-86-1 | Bromobenzene | 1.0 | U | 1.0 | 0.13 |
| 74-97-5 | Bromochloromethane | 1.0 | U | 1.0 | 0.29 |
| 106-43-4 | 4-Chlorotoluene | 1.0 | U | 1.0 | 0.18 |
| 99-87-6 | p-Isopropyltoluene | 1.0 | U | 1.0 | 0.12 |
| 67-64-1 | Acetone | 2.8 | J | 10 | 1.1 |
| 71-43-2 | Benzene | 1.0 | U | 1.0 | 0.13 |
| 75-25-2 | Bromoform | 1.0 | U | 1.0 | 0.64 |
| 74-83-9 | Bromomethane | 1.0 | U | 1.0 | 0.41 |
| 75-15-0 | Carbon disulfide | 1.3 | | 1.0 | 0.13 |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 1.0 | 0.13 |
| 108-90-7 | Chlorobenzene | 1.0 | U | 1.0 | 0.15 |
| 75-00-3 | Chloroethane | 1.0 | U | 1.0 | 0.29 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-14454-1

SDG No.:

Client Sample ID: MT-MW08S-082212  Lab Sample ID: 240-14454-3

Matrix: Water  Lab File ID: UXX8681.D

Analysis Method: 8260B  Date Collected: 08/22/2012 09:40

Sample wt/vol: 5(mL)  Date Analyzed: 09/04/2012 16:37

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 56575  Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 67-66-3 | Chloroform | 1.0 | U | 1.0 | 0.16 |
| 74-87-3 | Chloromethane | 0.37 | J | 1.0 | 0.30 |
| 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.17 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.14 |
| 87-68-3 | Hexachlorobutadiene | 1.0 | U | 1.0 | 0.30 |
| 74-95-3 | Dibromomethane | 1.0 | U | 1.0 | 0.28 |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 1.0 | 0.15 |
| 75-71-8 | Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.31 |
| 100-41-4 | Ethylbenzene | 1.0 | U | 1.0 | 0.17 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.24 |
| 108-20-3 | Diisopropyl ether | 10 | U | 10 | 1.5 |
| 91-20-3 | Naphthalene | 1.0 | U | 1.0 | 0.24 |
| 179601-23-1 | m-Xylene & p-Xylene | 2.0 | U | 2.0 | 0.24 |
| 104-51-8 | n-Butylbenzene | 1.0 | U | 1.0 | 0.12 |
| 98-82-8 | Isopropylbenzene | 1.0 | U | 1.0 | 0.13 |
| 103-65-1 | n-Propylbenzene | 1.0 | U | 1.0 | 0.14 |
| 78-93-3 | 2-Butanone | 10 | U | 10 | 0.57 |
| 108-10-1 | 4-Methyl-2-pentanone | 10 | U | 10 | 0.32 |
| 135-98-8 | sec-Butylbenzene | 1.0 | U | 1.0 | 0.13 |
| 1634-04-4 | Methyl tert-butyl ether | 5.0 | U | 5.0 | 0.17 |
| 994-05-8 | Tert-amyl-methyl ether (TAME) | 5.0 | U | 5.0 | 0.067 |
| 75-09-2 | Methylene Chloride | 1.0 | U | 1.0 | 0.33 |
| 95-47-6 | o-Xylene | 1.0 | U | 1.0 | 0.14 |
| 100-42-5 | Styrene | 1.0 | U | 1.0 | 0.11 |
| 637-92-3 | Ethyl-t-butyl ether (ETBE) | 5.0 | U | 5.0 | 0.11 |
| 98-06-6 | tert-Butylbenzene | 1.0 | U | 1.0 | 0.13 |
| 127-18-4 | Tetrachloroethene | 1.0 | U | 1.0 | 0.29 |
| 108-88-3 | Toluene | 0.16 | J | 1.0 | 0.13 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.19 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.19 |
| 79-01-6 | Trichloroethene | 1.0 | U | 1.0 | 0.17 |
| 75-69-4 | Trichlorofluoromethane | 1.0 | U | 1.0 | 0.21 |
| 108-05-4 | Vinyl acetate | 2.0 | U | 2.0 | 0.19 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 1.0 | 0.22 |
| 75-65-0 | tert-Butyl alcohol | 50 | U | 50 | 3.9 |
| 1330-20-7 | Xylenes, Total | 2.0 | U | 2.0 | 0.28 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-14454-1

SDG No.:

Client Sample ID: MT-MW08S-082212 | Lab Sample ID: 240-14454-3

Matrix: Water | Lab File ID: UXX8681.D

Analysis Method: 8260B | Date Collected: 08/22/2012 09:40

Sample wt/vol: 5(mL) | Date Analyzed: 09/04/2012 16:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 56575 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | 1.0 | U | 1.0 | 0.18 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 74 | | 63-129 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 90 | | 66-117 |
| 2037-26-5 | Toluene-d8 (Surr) | 87 | | 74-115 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 102 | | 75-121 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Client Sample ID: MT-MW08S-082212 Lab Sample ID: 240-14454-3

Matrix: Water Lab File ID: UXX8681.D

Analysis Method: 8260B Date Collected: 08/22/2012 09:40

Sample wt/vol: 5(mL) Date Analyzed: 09/04/2012 16:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 56575 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| | Tentatively Identified Compound | | None | |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Client Sample ID: MT-MW10S-082212 Lab Sample ID: 240-14454-4

Matrix: Water Lab File ID: UXX8682.D

Analysis Method: 8260B Date Collected: 08/22/2012 13:20

Sample wt/vol: 5(mL) Date Analyzed: 09/04/2012 16:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 56575 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.23 |
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 1.0 | 0.22 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.18 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trichfluoroeth ane | 1.0 | U | 1.0 | 0.28 |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.15 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.19 |
| 563-58-6 | 1,1-Dichloropropene | 1.0 | U | 1.0 | 0.13 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 1.0 | 0.17 |
| 96-18-4 | 1,2,3-Trichloropropane | 1.0 | U | 1.0 | 0.43 |
| 526-73-8 | 1,2,3-Trimethylbenzene | 5.0 | U | 5.0 | 0.0059 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.15 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.12 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 2.0 | U | 2.0 | 0.67 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.13 |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.22 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.18 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.14 |
| 142-28-9 | 1,3-Dichloropropane | 1.0 | U | 1.0 | 0.16 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.13 |
| 594-20-7 | 2,2-Dichloropropane | 1.0 | U | 1.0 | 0.13 |
| 110-75-8 | 2-Chloroethyl vinyl ether | 10 | U | 10 | 0.99 |
| 95-49-8 | 2-Chlorotoluene | 1.0 | U | 1.0 | 0.11 |
| 591-78-6 | 2-Hexanone | 10 | U | 10 | 0.41 |
| 108-86-1 | Bromobenzene | 1.0 | U | 1.0 | 0.13 |
| 74-97-5 | Bromochloromethane | 1.0 | U | 1.0 | 0.29 |
| 106-43-4 | 4-Chlorotoluene | 1.0 | U | 1.0 | 0.18 |
| 99-87-6 | p-Isopropyltoluene | 1.0 | U | 1.0 | 0.12 |
| 67-64-1 | Acetone | 10 | U | 10 | 1.1 |
| 71-43-2 | Benzene | 1.9 | | 1.0 | 0.13 |
| 75-25-2 | Bromoform | 1.0 | U | 1.0 | 0.64 |
| 74-83-9 | Bromomethane | 1.0 | U | 1.0 | 0.41 |
| 75-15-0 | Carbon disulfide | 0.67 | J | 1.0 | 0.13 |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 1.0 | 0.13 |
| 108-90-7 | Chlorobenzene | 1.0 | U | 1.0 | 0.15 |
| 75-00-3 | Chloroethane | 1.0 | U | 1.0 | 0.29 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-14454-1

SDG No.:

Client Sample ID: MT-MW10S-082212 | Lab Sample ID: 240-14454-4

Matrix: Water | Lab File ID: UXX8682.D

Analysis Method: 8260B | Date Collected: 08/22/2012 13:20

Sample wt/vol: 5(mL) | Date Analyzed: 09/04/2012 16:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 56575 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 67-66-3 | Chloroform | 1.0 | U | 1.0 | 0.16 |
| 74-87-3 | Chloromethane | 1.0 | U | 1.0 | 0.30 |
| 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.17 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.14 |
| 87-68-3 | Hexachlorobutadiene | 1.0 | U | 1.0 | 0.30 |
| 74-95-3 | Dibromomethane | 1.0 | U | 1.0 | 0.28 |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 1.0 | 0.15 |
| 75-71-8 | Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.31 |
| 100-41-4 | Ethylbenzene | 1.0 | U | 1.0 | 0.17 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.24 |
| 108-20-3 | Diisopropyl ether | 10 | U | 10 | 1.5 |
| 91-20-3 | Naphthalene | 1.0 | U | 1.0 | 0.24 |
| 179601-23-1 | m-Xylene & p-Xylene | 2.0 | U | 2.0 | 0.24 |
| 104-51-8 | n-Butylbenzene | 1.0 | U | 1.0 | 0.12 |
| 98-82-8 | Isopropylbenzene | 1.0 | U | 1.0 | 0.13 |
| 103-65-1 | n-Propylbenzene | 1.0 | U | 1.0 | 0.14 |
| 78-93-3 | 2-Butanone | 10 | U | 10 | 0.57 |
| 108-10-1 | 4-Methyl-2-pentanone | 10 | U | 10 | 0.32 |
| 135-98-8 | sec-Butylbenzene | 1.0 | U | 1.0 | 0.13 |
| 1634-04-4 | Methyl tert-butyl ether | 5.0 | U | 5.0 | 0.17 |
| 994-05-8 | Tert-amyl-methyl ether (TAME) | 5.0 | U | 5.0 | 0.067 |
| 75-09-2 | Methylene Chloride | 1.0 | U | 1.0 | 0.33 |
| 95-47-6 | o-Xylene | 1.0 | U | 1.0 | 0.14 |
| 100-42-5 | Styrene | 1.0 | U | 1.0 | 0.11 |
| 637-92-3 | Ethyl-t-butyl ether (ETBE) | 5.0 | U | 5.0 | 0.11 |
| 98-06-6 | tert-Butylbenzene | 1.0 | U | 1.0 | 0.13 |
| 127-18-4 | Tetrachloroethene | 1.0 | U | 1.0 | 0.29 |
| 108-88-3 | Toluene | 0.27 | J | 1.0 | 0.13 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.19 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.19 |
| 79-01-6 | Trichloroethene | 1.0 | U | 1.0 | 0.17 |
| 75-69-4 | Trichlorofluoromethane | 1.0 | U | 1.0 | 0.21 |
| 108-05-4 | Vinyl acetate | 2.0 | U | 2.0 | 0.19 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 1.0 | 0.22 |
| 75-65-0 | tert-Butyl alcohol | 50 | U | 50 | 3.9 |
| 1330-20-7 | Xylenes, Total | 2.0 | U | 2.0 | 0.28 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-14454-1

SDG No.:

Client Sample ID: MT-MW10S-082212 | Lab Sample ID: 240-14454-4

Matrix: Water | Lab File ID: UXX8682.D

Analysis Method: 8260B | Date Collected: 08/22/2012 13:20

Sample wt/vol: 5(mL) | Date Analyzed: 09/04/2012 16:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 56575 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | 1.0 | U | 1.0 | 0.18 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 71 | | 63-129 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 85 | | 66-117 |
| 2037-26-5 | Toluene-d8 (Surr) | 86 | | 74-115 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 99 | | 75-121 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Client Sample ID: MT-MW10S-082212 Lab Sample ID: 240-14454-4

Matrix: Water Lab File ID: UXX8682.D

Analysis Method: 8260B Date Collected: 08/22/2012 13:20

Sample wt/vol: 5(mL) Date Analyzed: 09/04/2012 16:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 56575 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| | Tentatively Identified Compound | | None | |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Client Sample ID: TB-082212 Lab Sample ID: 240-14454-1

Matrix: Water Lab File ID: UXX8679.D

Analysis Method: 8260B Date Collected: 08/22/2012 00:00

Sample wt/vol: 5(mL) Date Analyzed: 09/04/2012 15:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 56575 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.23 |
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 1.0 | 0.22 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.18 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trichfluoroeth ane | 1.0 | U | 1.0 | 0.28 |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.15 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.19 |
| 563-58-6 | 1,1-Dichloropropene | 1.0 | U | 1.0 | 0.13 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 1.0 | 0.17 |
| 96-18-4 | 1,2,3-Trichloropropane | 1.0 | U | 1.0 | 0.43 |
| 526-73-8 | 1,2,3-Trimethylbenzene | 5.0 | U | 5.0 | 0.0059 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.15 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.12 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 2.0 | U | 2.0 | 0.67 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.13 |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.22 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.18 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.14 |
| 142-28-9 | 1,3-Dichloropropane | 1.0 | U | 1.0 | 0.16 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.13 |
| 594-20-7 | 2,2-Dichloropropane | 1.0 | U | 1.0 | 0.13 |
| 110-75-8 | 2-Chloroethyl vinyl ether | 10 | U | 10 | 0.99 |
| 95-49-8 | 2-Chlorotoluene | 1.0 | U | 1.0 | 0.11 |
| 591-78-6 | 2-Hexanone | 10 | U | 10 | 0.41 |
| 108-86-1 | Bromobenzene | 1.0 | U | 1.0 | 0.13 |
| 74-97-5 | Bromochloromethane | 1.0 | U | 1.0 | 0.29 |
| 106-43-4 | 4-Chlorotoluene | 1.0 | U | 1.0 | 0.18 |
| 99-87-6 | p-Isopropyltoluene | 1.0 | U | 1.0 | 0.12 |
| 67-64-1 | Acetone | 10 | U | 10 | 1.1 |
| 71-43-2 | Benzene | 1.0 | U | 1.0 | 0.13 |
| 75-25-2 | Bromoform | 1.0 | U | 1.0 | 0.64 |
| 74-83-9 | Bromomethane | 1.0 | U | 1.0 | 0.41 |
| 75-15-0 | Carbon disulfide | 1.0 | U | 1.0 | 0.13 |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 1.0 | 0.13 |
| 108-90-7 | Chlorobenzene | 1.0 | U | 1.0 | 0.15 |
| 75-00-3 | Chloroethane | 1.0 | U | 1.0 | 0.29 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Client Sample ID: TB-082212 Lab Sample ID: 240-14454-1

Matrix: Water Lab File ID: UXX8679.D

Analysis Method: 8260B Date Collected: 08/22/2012 00:00

Sample wt/vol: 5(mL) Date Analyzed: 09/04/2012 15:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 56575 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 67-66-3 | Chloroform | 1.0 | U | 1.0 | 0.16 |
| 74-87-3 | Chloromethane | 1.0 | U | 1.0 | 0.30 |
| 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.17 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.14 |
| 87-68-3 | Hexachlorobutadiene | 1.0 | U | 1.0 | 0.30 |
| 74-95-3 | Dibromomethane | 1.0 | U | 1.0 | 0.28 |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 1.0 | 0.15 |
| 75-71-8 | Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.31 |
| 100-41-4 | Ethylbenzene | 1.0 | U | 1.0 | 0.17 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.24 |
| 108-20-3 | Diisopropyl ether | 10 | U | 10 | 1.5 |
| 91-20-3 | Naphthalene | 1.0 | U | 1.0 | 0.24 |
| 179601-23-1 | m-Xylene & p-Xylene | 2.0 | U | 2.0 | 0.24 |
| 104-51-8 | n-Butylbenzene | 1.0 | U | 1.0 | 0.12 |
| 98-82-8 | Isopropylbenzene | 1.0 | U | 1.0 | 0.13 |
| 103-65-1 | n-Propylbenzene | 1.0 | U | 1.0 | 0.14 |
| 78-93-3 | 2-Butanone | 10 | U | 10 | 0.57 |
| 108-10-1 | 4-Methyl-2-pentanone | 10 | U | 10 | 0.32 |
| 135-98-8 | sec-Butylbenzene | 1.0 | U | 1.0 | 0.13 |
| 1634-04-4 | Methyl tert-butyl ether | 5.0 | U | 5.0 | 0.17 |
| 994-05-8 | Tert-amyl-methyl ether (TAME) | 5.0 | U | 5.0 | 0.067 |
| 75-09-2 | Methylene Chloride | 1.0 | U | 1.0 | 0.33 |
| 95-47-6 | o-Xylene | 1.0 | U | 1.0 | 0.14 |
| 100-42-5 | Styrene | 1.0 | U | 1.0 | 0.11 |
| 637-92-3 | Ethyl-t-butyl ether (ETBE) | 5.0 | U | 5.0 | 0.11 |
| 98-06-6 | tert-Butylbenzene | 1.0 | U | 1.0 | 0.13 |
| 127-18-4 | Tetrachloroethene | 1.0 | U | 1.0 | 0.29 |
| 108-88-3 | Toluene | 1.0 | U | 1.0 | 0.13 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.19 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.19 |
| 79-01-6 | Trichloroethene | 1.0 | U | 1.0 | 0.17 |
| 75-69-4 | Trichlorofluoromethane | 1.0 | U | 1.0 | 0.21 |
| 108-05-4 | Vinyl acetate | 2.0 | U | 2.0 | 0.19 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 1.0 | 0.22 |
| 75-65-0 | tert-Butyl alcohol | 50 | U | 50 | 3.9 |
| 1330-20-7 | Xylenes, Total | 2.0 | U | 2.0 | 0.28 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Client Sample ID: TB-082212 Lab Sample ID: 240-14454-1

Matrix: Water Lab File ID: UXX8679.D

Analysis Method: 8260B Date Collected: 08/22/2012 00:00

Sample wt/vol: 5(mL) Date Analyzed: 09/04/2012 15:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 56575 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | 1.0 | U | 1.0 | 0.18 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 72 | | 63-129 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 87 | | 66-117 |
| 2037-26-5 | Toluene-d8 (Surr) | 88 | | 74-115 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 103 | | 75-121 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton  Job No.: 240-14454-1

SDG No.:

Client Sample ID: TB-082212  Lab Sample ID: 240-14454-1

Matrix: Water  Lab File ID: UXX8679.D

Analysis Method: 8260B  Date Collected: 08/22/2012 00:00

Sample wt/vol: 5(mL)  Date Analyzed: 09/04/2012 15:54

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 56575  Units: ug/L

Number TICs Found: 0  TIC Result Total: 0

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| | Tentatively Identified Compound | | None | |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-14454-1

SDG No.:

Client Sample ID: MT-MW07S-082212 | Lab Sample ID: 240-14454-2

Matrix: Water | Lab File ID: 20906027.D

Analysis Method: 8270D | Date Collected: 08/22/2012 11:10

Extract. Method: 3520C | Date Extracted: 08/24/2012 11:11

Sample wt/vol: 1020(mL) | Date Analyzed: 09/06/2012 19:50

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 56877 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.98 | U | 0.98 | 0.78 |
| 123-91-1 | 1,4-Dioxane | 0.98 | U | 0.98 | 0.48 |
| 88-06-2 | 2,4,6-Trichlorophenol | 4.9 | U | 4.9 | 0.78 |
| 95-95-4 | 2,4,5-Trichlorophenol | 4.9 | U | 4.9 | 0.29 |
| 120-83-2 | 2,4-Dichlorophenol | 2.0 | U | 2.0 | 0.78 |
| 105-67-9 | 2,4-Dimethylphenol | 2.0 | U | 2.0 | 0.78 |
| 51-28-5 | 2,4-Dinitrophenol | 4.9 | U | 4.9 | 2.4 |
| 121-14-2 | 2,4-Dinitrotoluene | 4.9 | U | 4.9 | 0.26 |
| 91-58-7 | 2-Chloronaphthalene | 0.98 | U | 0.98 | 0.098 |
| 95-57-8 | 2-Chlorophenol | 0.98 | U | 0.98 | 0.28 |
| 91-57-6 | 2-Methylnaphthalene | 0.20 | U | 0.20 | 0.098 |
| 95-48-7 | 2-Methylphenol | 0.98 | U | 0.98 | 0.78 |
| 88-74-4 | 2-Nitroaniline | 2.0 | U | 2.0 | 0.78 |
| 88-75-5 | 2-Nitrophenol | 2.0 | U | 2.0 | 0.27 |
| 15831-10-4 | 3 & 4 Methylphenol | 2.0 | U | 2.0 | 0.74 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 4.9 | U | 4.9 | 0.36 |
| 99-09-2 | 3-Nitroaniline | 2.0 | U | 2.0 | 0.27 |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 4.9 | U | 4.9 | 2.4 |
| 101-55-3 | 4-Bromophenyl phenyl ether | 2.0 | U | 2.0 | 0.78 |
| 59-50-7 | 4-Chloro-3-methylphenol | 2.0 | U | 2.0 | 0.78 |
| 106-47-8 | 4-Chloroaniline | 2.0 | U | 2.0 | 0.78 |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 2.0 | U | 2.0 | 0.29 |
| 100-01-6 | 4-Nitroaniline | 2.0 | U | 2.0 | 0.78 |
| 83-32-9 | Acenaphthene | 0.20 | U | 0.20 | 0.098 |
| 208-96-8 | Acenaphthylene | 0.20 | U | 0.20 | 0.098 |
| 98-86-2 | Acetophenone | 0.98 | U | 0.98 | 0.33 |
| 120-12-7 | Anthracene | 0.20 | U | 0.20 | 0.098 |
| 1912-24-9 | Atrazine | 0.98 | U | 0.98 | 0.33 |
| 100-52-7 | Benzaldehyde | 0.98 | U * | 0.98 | 0.38 |
| 56-55-3 | Benzo[a]anthracene | 0.20 | U | 0.20 | 0.098 |
| 50-32-8 | Benzo[a]pyrene | 0.20 | U | 0.20 | 0.098 |
| 205-99-2 | Benzo[b]fluoranthene | 0.20 | U | 0.20 | 0.098 |
| 191-24-2 | Benzo[g,h,i]perylene | 0.20 | U | 0.20 | 0.098 |
| 207-08-9 | Benzo[k]fluoranthene | 0.20 | U | 0.20 | 0.098 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-14454-1

SDG No.:

Client Sample ID: MT-MW07S-082212 | Lab Sample ID: 240-14454-2

Matrix: Water | Lab File ID: 20906027.D

Analysis Method: 8270D | Date Collected: 08/22/2012 11:10

Extract. Method: 3520C | Date Extracted: 08/24/2012 11:11

Sample wt/vol: 1020(mL) | Date Analyzed: 09/06/2012 19:50

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 56877 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 111-91-1 | Bis(2-chloroethoxy)methane | 0.98 | U | 0.98 | 0.31 |
| 111-44-4 | Bis(2-chloroethyl)ether | 0.98 | U | 0.98 | 0.098 |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 0.91 | J | 2.0 | 0.78 |
| 85-68-7 | Butyl benzyl phthalate | 0.98 | U | 0.98 | 0.78 |
| 105-60-2 | Caprolactam | 4.9 | U | 4.9 | 0.78 |
| 86-74-8 | Carbazole | 0.98 | U | 0.98 | 0.27 |
| 218-01-9 | Chrysene | 0.20 | U | 0.20 | 0.098 |
| 84-74-2 | Di-n-butyl phthalate | 0.98 | U | 0.98 | 0.66 |
| 117-84-0 | Di-n-octyl phthalate | 0.98 | U | 0.98 | 0.78 |
| 53-70-3 | Dibenzo(a,h)anthracene | 0.20 | U | 0.20 | 0.098 |
| 132-64-9 | Dibenzofuran | 0.98 | U | 0.98 | 0.098 |
| 84-66-2 | Diethyl phthalate | 0.98 | U | 0.98 | 0.59 |
| 131-11-3 | Dimethyl phthalate | 0.98 | U | 0.98 | 0.28 |
| 206-44-0 | Fluoranthene | 0.20 | U | 0.20 | 0.098 |
| 86-73-7 | Fluorene | 0.20 | U | 0.20 | 0.098 |
| 118-74-1 | Hexachlorobenzene | 0.20 | U | 0.20 | 0.098 |
| 87-68-3 | Hexachlorobutadiene | 0.98 | U | 0.98 | 0.26 |
| 77-47-4 | Hexachlorocyclopentadiene | 9.8 | U | 9.8 | 0.78 |
| 67-72-1 | Hexachloroethane | 0.98 | U | 0.98 | 0.78 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.20 | U | 0.20 | 0.098 |
| 78-59-1 | Isophorone | 0.98 | U | 0.98 | 0.26 |
| 621-64-7 | N-Nitrosodi-n-propylamine | 0.98 | U | 0.98 | 0.78 |
| 62-75-9 | N-Nitrosodimethylamine | 0.98 | U | 0.98 | 0.30 |
| 86-30-6 | N-Nitrosodiphenylamine | 0.98 | U | 0.98 | 0.30 |
| 91-20-3 | Naphthalene | 0.20 | U | 0.20 | 0.098 |
| 98-95-3 | Nitrobenzene | 0.98 | U | 0.98 | 0.039 |
| 87-86-5 | Pentachlorophenol | 4.9 | U | 4.9 | 2.4 |
| 85-01-8 | Phenanthrene | 0.20 | U | 0.20 | 0.098 |
| 108-95-2 | Phenol | 0.98 | U | 0.98 | 0.59 |
| 129-00-0 | Pyrene | 0.20 | U | 0.20 | 0.098 |
| 108-60-1 | 2,2'-oxybis[1-chloropropane] | 0.98 | U | 0.98 | 0.39 |
| 606-20-2 | 2,6-Dinitrotoluene | 4.9 | U | 4.9 | 0.78 |
| 100-02-7 | 4-Nitrophenol | 4.9 | U | 4.9 | 2.4 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-14454-1

SDG No.:

Client Sample ID: MT-MW07S-082212  Lab Sample ID: 240-14454-2

Matrix: Water  Lab File ID: 20906027.D

Analysis Method: 8270D  Date Collected: 08/22/2012 11:10

Extract. Method: 3520C  Date Extracted: 08/24/2012 11:11

Sample wt/vol: 1020(mL)  Date Analyzed: 09/06/2012 19:50

Con. Extract Vol.: 2(mL)  Dilution Factor: 1

Injection Volume: 1(uL)  Level: (low/med) Low

% Moisture:  GPC Cleanup:(Y/N) N

Analysis Batch No.: 56877  Units: ug/L

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 1718-51-0 | Terphenyl-d14 (Surr) | 84 | | 24-110 |
| 4165-62-2 | Phenol-d5 (Surr) | 69 | | 21-110 |
| 4165-60-0 | Nitrobenzene-d5 (Surr) | 68 | | 21-110 |
| 367-12-4 | 2-Fluorophenol (Surr) | 72 | | 10-110 |
| 321-60-8 | 2-Fluorobiphenyl (Surr) | 68 | | 20-110 |
| 118-79-6 | 2,4,6-Tribromophenol (Surr) | 73 | | 21-110 |

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Client Sample ID: MT-MW08S-082212 Lab Sample ID: 240-14454-3

Matrix: Water Lab File ID: 20906028.D

Analysis Method: 8270D Date Collected: 08/22/2012 09:40

Extract. Method: 3520C Date Extracted: 08/24/2012 11:11

Sample wt/vol: 1050(mL) Date Analyzed: 09/06/2012 20:10

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 56877 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.95 | U | 0.95 | 0.76 |
| 123-91-1 | 1,4-Dioxane | 0.95 | U | 0.95 | 0.47 |
| 88-06-2 | 2,4,6-Trichlorophenol | 4.8 | U | 4.8 | 0.76 |
| 95-95-4 | 2,4,5-Trichlorophenol | 4.8 | U | 4.8 | 0.29 |
| 120-83-2 | 2,4-Dichlorophenol | 1.9 | U | 1.9 | 0.76 |
| 105-67-9 | 2,4-Dimethylphenol | 1.9 | U | 1.9 | 0.76 |
| 51-28-5 | 2,4-Dinitrophenol | 4.8 | U | 4.8 | 2.3 |
| 121-14-2 | 2,4-Dinitrotoluene | 4.8 | U | 4.8 | 0.26 |
| 91-58-7 | 2-Chloronaphthalene | 0.95 | U | 0.95 | 0.095 |
| 95-57-8 | 2-Chlorophenol | 0.95 | U | 0.95 | 0.28 |
| 91-57-6 | 2-Methylnaphthalene | 0.19 | U | 0.19 | 0.095 |
| 95-48-7 | 2-Methylphenol | 0.95 | U | 0.95 | 0.76 |
| 88-74-4 | 2-Nitroaniline | 1.9 | U | 1.9 | 0.76 |
| 88-75-5 | 2-Nitrophenol | 1.9 | U | 1.9 | 0.27 |
| 15831-10-4 | 3 & 4 Methylphenol | 1.9 | U | 1.9 | 0.71 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 4.8 | U | 4.8 | 0.35 |
| 99-09-2 | 3-Nitroaniline | 1.9 | U | 1.9 | 0.27 |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 4.8 | U | 4.8 | 2.3 |
| 101-55-3 | 4-Bromophenyl phenyl ether | 1.9 | U | 1.9 | 0.76 |
| 59-50-7 | 4-Chloro-3-methylphenol | 1.9 | U | 1.9 | 0.76 |
| 106-47-8 | 4-Chloroaniline | 1.9 | U | 1.9 | 0.76 |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 1.9 | U | 1.9 | 0.29 |
| 100-01-6 | 4-Nitroaniline | 1.9 | U | 1.9 | 0.76 |
| 83-32-9 | Acenaphthene | 0.19 | U | 0.19 | 0.095 |
| 208-96-8 | Acenaphthylene | 0.19 | U | 0.19 | 0.095 |
| 98-86-2 | Acetophenone | 0.95 | U | 0.95 | 0.32 |
| 120-12-7 | Anthracene | 0.19 | U | 0.19 | 0.095 |
| 1912-24-9 | Atrazine | 0.95 | U | 0.95 | 0.32 |
| 100-52-7 | Benzaldehyde | 0.95 | U * | 0.95 | 0.37 |
| 56-55-3 | Benzo[a]anthracene | 0.19 | U | 0.19 | 0.095 |
| 50-32-8 | Benzo[a]pyrene | 0.19 | U | 0.19 | 0.095 |
| 205-99-2 | Benzo[b]fluoranthene | 0.19 | U | 0.19 | 0.095 |
| 191-24-2 | Benzo[g,h,i]perylene | 0.19 | U | 0.19 | 0.095 |
| 207-08-9 | Benzo[k]fluoranthene | 0.19 | U | 0.19 | 0.095 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-14454-1

SDG No.:

Client Sample ID: MT-MW08S-082212 | Lab Sample ID: 240-14454-3

Matrix: Water | Lab File ID: 20906028.D

Analysis Method: 8270D | Date Collected: 08/22/2012 09:40

Extract. Method: 3520C | Date Extracted: 08/24/2012 11:11

Sample wt/vol: 1050(mL) | Date Analyzed: 09/06/2012 20:10

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 56877 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 111-91-1 | Bis(2-chloroethoxy)methane | 0.95 | U | 0.95 | 0.30 |
| 111-44-4 | Bis(2-chloroethyl)ether | 0.95 | U | 0.95 | 0.095 |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 0.79 | J | 1.9 | 0.76 |
| 85-68-7 | Butyl benzyl phthalate | 0.95 | U | 0.95 | 0.76 |
| 105-60-2 | Caprolactam | 0.78 | J | 4.8 | 0.76 |
| 86-74-8 | Carbazole | 0.95 | U | 0.95 | 0.27 |
| 218-01-9 | Chrysene | 0.19 | U | 0.19 | 0.095 |
| 84-74-2 | Di-n-butyl phthalate | 0.95 | U | 0.95 | 0.64 |
| 117-84-0 | Di-n-octyl phthalate | 0.95 | U | 0.95 | 0.76 |
| 53-70-3 | Dibenzo(a,h)anthracene | 0.19 | U | 0.19 | 0.095 |
| 132-64-9 | Dibenzofuran | 0.95 | U | 0.95 | 0.095 |
| 84-66-2 | Diethyl phthalate | 0.95 | U | 0.95 | 0.57 |
| 131-11-3 | Dimethyl phthalate | 0.95 | U | 0.95 | 0.28 |
| 206-44-0 | Fluoranthene | 0.19 | U | 0.19 | 0.095 |
| 86-73-7 | Fluorene | 0.19 | U | 0.19 | 0.095 |
| 118-74-1 | Hexachlorobenzene | 0.19 | U | 0.19 | 0.095 |
| 87-68-3 | Hexachlorobutadiene | 0.95 | U | 0.95 | 0.26 |
| 77-47-4 | Hexachlorocyclopentadiene | 9.5 | U | 9.5 | 0.76 |
| 67-72-1 | Hexachloroethane | 0.95 | U | 0.95 | 0.76 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.19 | U | 0.19 | 0.095 |
| 78-59-1 | Isophorone | 0.95 | U | 0.95 | 0.26 |
| 621-64-7 | N-Nitrosodi-n-propylamine | 0.95 | U | 0.95 | 0.76 |
| 62-75-9 | N-Nitrosodimethylamine | 0.95 | U | 0.95 | 0.30 |
| 86-30-6 | N-Nitrosodiphenylamine | 0.95 | U | 0.95 | 0.30 |
| 91-20-3 | Naphthalene | 0.19 | U | 0.19 | 0.095 |
| 98-95-3 | Nitrobenzene | 0.95 | U | 0.95 | 0.038 |
| 87-86-5 | Pentachlorophenol | 4.8 | U | 4.8 | 2.3 |
| 85-01-8 | Phenanthrene | 0.19 | U | 0.19 | 0.095 |
| 108-95-2 | Phenol | 0.95 | U | 0.95 | 0.57 |
| 129-00-0 | Pyrene | 0.19 | U | 0.19 | 0.095 |
| 108-60-1 | 2,2'-oxybis[1-chloropropane] | 0.95 | U | 0.95 | 0.38 |
| 606-20-2 | 2,6-Dinitrotoluene | 4.8 | U | 4.8 | 0.76 |
| 100-02-7 | 4-Nitrophenol | 4.8 | U | 4.8 | 2.3 |

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-14454-1

SDG No.:

Client Sample ID: MT-MW08S-082212 | Lab Sample ID: 240-14454-3

Matrix: Water | Lab File ID: 20906028.D

Analysis Method: 8270D | Date Collected: 08/22/2012 09:40

Extract. Method: 3520C | Date Extracted: 08/24/2012 11:11

Sample wt/vol: 1050(mL) | Date Analyzed: 09/06/2012 20:10

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 56877 | Units: ug/L

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 1718-51-0 | Terphenyl-d14 (Surr) | 81 | | 24-110 |
| 4165-62-2 | Phenol-d5 (Surr) | 70 | | 21-110 |
| 4165-60-0 | Nitrobenzene-d5 (Surr) | 65 | | 21-110 |
| 367-12-4 | 2-Fluorophenol (Surr) | 74 | | 10-110 |
| 321-60-8 | 2-Fluorobiphenyl (Surr) | 66 | | 20-110 |
| 118-79-6 | 2,4,6-Tribromophenol (Surr) | 80 | | 21-110 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-14454-1

SDG No.:

Client Sample ID: MT-MW10S-082212 | Lab Sample ID: 240-14454-4

Matrix: Water | Lab File ID: 20906029.D

Analysis Method: 8270D | Date Collected: 08/22/2012 13:20

Extract. Method: 3520C | Date Extracted: 08/24/2012 11:11

Sample wt/vol: 1050(mL) | Date Analyzed: 09/06/2012 20:29

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 56877 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.95 | U | 0.95 | 0.76 |
| 123-91-1 | 1,4-Dioxane | 0.95 | U | 0.95 | 0.47 |
| 88-06-2 | 2,4,6-Trichlorophenol | 4.8 | U | 4.8 | 0.76 |
| 95-95-4 | 2,4,5-Trichlorophenol | 4.8 | U | 4.8 | 0.29 |
| 120-83-2 | 2,4-Dichlorophenol | 1.9 | U | 1.9 | 0.76 |
| 105-67-9 | 2,4-Dimethylphenol | 1.9 | U | 1.9 | 0.76 |
| 51-28-5 | 2,4-Dinitrophenol | 4.8 | U | 4.8 | 2.3 |
| 121-14-2 | 2,4-Dinitrotoluene | 4.8 | U | 4.8 | 0.26 |
| 91-58-7 | 2-Chloronaphthalene | 0.95 | U | 0.95 | 0.095 |
| 95-57-8 | 2-Chlorophenol | 0.95 | U | 0.95 | 0.28 |
| 91-57-6 | 2-Methylnaphthalene | 0.19 | U | 0.19 | 0.095 |
| 95-48-7 | 2-Methylphenol | 0.95 | U | 0.95 | 0.76 |
| 88-74-4 | 2-Nitroaniline | 1.9 | U | 1.9 | 0.76 |
| 88-75-5 | 2-Nitrophenol | 1.9 | U | 1.9 | 0.27 |
| 15831-10-4 | 3 & 4 Methylphenol | 1.9 | U | 1.9 | 0.71 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 4.8 | U | 4.8 | 0.35 |
| 99-09-2 | 3-Nitroaniline | 1.9 | U | 1.9 | 0.27 |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 4.8 | U | 4.8 | 2.3 |
| 101-55-3 | 4-Bromophenyl phenyl ether | 1.9 | U | 1.9 | 0.76 |
| 59-50-7 | 4-Chloro-3-methylphenol | 1.9 | U | 1.9 | 0.76 |
| 106-47-8 | 4-Chloroaniline | 1.9 | U | 1.9 | 0.76 |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 1.9 | U | 1.9 | 0.29 |
| 100-01-6 | 4-Nitroaniline | 1.9 | U | 1.9 | 0.76 |
| 83-32-9 | Acenaphthene | 0.19 | U | 0.19 | 0.095 |
| 208-96-8 | Acenaphthylene | 0.19 | U | 0.19 | 0.095 |
| 98-86-2 | Acetophenone | 0.95 | U | 0.95 | 0.32 |
| 120-12-7 | Anthracene | 0.19 | U | 0.19 | 0.095 |
| 1912-24-9 | Atrazine | 0.95 | U | 0.95 | 0.32 |
| 100-52-7 | Benzaldehyde | 0.95 | U * | 0.95 | 0.37 |
| 56-55-3 | Benzo[a]anthracene | 0.19 | U | 0.19 | 0.095 |
| 50-32-8 | Benzo[a]pyrene | 0.19 | U | 0.19 | 0.095 |
| 205-99-2 | Benzo[b]fluoranthene | 0.19 | U | 0.19 | 0.095 |
| 191-24-2 | Benzo[g,h,i]perylene | 0.19 | U | 0.19 | 0.095 |
| 207-08-9 | Benzo[k]fluoranthene | 0.19 | U | 0.19 | 0.095 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-14454-1

SDG No.:

Client Sample ID: MT-MW10S-082212 | Lab Sample ID: 240-14454-4

Matrix: Water | Lab File ID: 20906029.D

Analysis Method: 8270D | Date Collected: 08/22/2012 13:20

Extract. Method: 3520C | Date Extracted: 08/24/2012 11:11

Sample wt/vol: 1050(mL) | Date Analyzed: 09/06/2012 20:29

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 56877 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 111-91-1 | Bis(2-chloroethoxy)methane | 0.95 | U | 0.95 | 0.30 |
| 111-44-4 | Bis(2-chloroethyl)ether | 0.95 | U | 0.95 | 0.095 |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 1.9 | U | 1.9 | 0.76 |
| 85-68-7 | Butyl benzyl phthalate | 0.95 | U | 0.95 | 0.76 |
| 105-60-2 | Caprolactam | 4.8 | U | 4.8 | 0.76 |
| 86-74-8 | Carbazole | 0.95 | U | 0.95 | 0.27 |
| 218-01-9 | Chrysene | 0.19 | U | 0.19 | 0.095 |
| 84-74-2 | Di-n-butyl phthalate | 0.95 | U | 0.95 | 0.64 |
| 117-84-0 | Di-n-octyl phthalate | 0.95 | U | 0.95 | 0.76 |
| 53-70-3 | Dibenzo(a,h)anthracene | 0.19 | U | 0.19 | 0.095 |
| 132-64-9 | Dibenzofuran | 0.95 | U | 0.95 | 0.095 |
| 84-66-2 | Diethyl phthalate | 0.95 | U | 0.95 | 0.57 |
| 131-11-3 | Dimethyl phthalate | 0.95 | U | 0.95 | 0.28 |
| 206-44-0 | Fluoranthene | 0.19 | U | 0.19 | 0.095 |
| 86-73-7 | Fluorene | 0.19 | U | 0.19 | 0.095 |
| 118-74-1 | Hexachlorobenzene | 0.19 | U | 0.19 | 0.095 |
| 87-68-3 | Hexachlorobutadiene | 0.95 | U | 0.95 | 0.26 |
| 77-47-4 | Hexachlorocyclopentadiene | 9.5 | U | 9.5 | 0.76 |
| 67-72-1 | Hexachloroethane | 0.95 | U | 0.95 | 0.76 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.19 | U | 0.19 | 0.095 |
| 78-59-1 | Isophorone | 0.95 | U | 0.95 | 0.26 |
| 621-64-7 | N-Nitrosodi-n-propylamine | 0.95 | U | 0.95 | 0.76 |
| 62-75-9 | N-Nitrosodimethylamine | 0.95 | U | 0.95 | 0.30 |
| 86-30-6 | N-Nitrosodiphenylamine | 0.95 | U | 0.95 | 0.30 |
| 91-20-3 | Naphthalene | 0.19 | U | 0.19 | 0.095 |
| 98-95-3 | Nitrobenzene | 0.95 | U | 0.95 | 0.038 |
| 87-86-5 | Pentachlorophenol | 4.8 | U | 4.8 | 2.3 |
| 85-01-8 | Phenanthrene | 0.19 | U | 0.19 | 0.095 |
| 108-95-2 | Phenol | 0.95 | U | 0.95 | 0.57 |
| 129-00-0 | Pyrene | 0.19 | U | 0.19 | 0.095 |
| 108-60-1 | 2,2'-oxybis[1-chloropropane] | 0.95 | U | 0.95 | 0.38 |
| 606-20-2 | 2,6-Dinitrotoluene | 4.8 | U | 4.8 | 0.76 |
| 100-02-7 | 4-Nitrophenol | 4.8 | U | 4.8 | 2.3 |

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-14454-1

SDG No.:

Client Sample ID: MT-MW10S-082212 | Lab Sample ID: 240-14454-4

Matrix: Water | Lab File ID: 20906029.D

Analysis Method: 8270D | Date Collected: 08/22/2012 13:20

Extract. Method: 3520C | Date Extracted: 08/24/2012 11:11

Sample wt/vol: 1050(mL) | Date Analyzed: 09/06/2012 20:29

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 56877 | Units: ug/L

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 1718-51-0 | Terphenyl-d14 (Surr) | 72 | | 24-110 |
| 4165-62-2 | Phenol-d5 (Surr) | 63 | | 21-110 |
| 4165-60-0 | Nitrobenzene-d5 (Surr) | 62 | | 21-110 |
| 367-12-4 | 2-Fluorophenol (Surr) | 65 | | 10-110 |
| 321-60-8 | 2-Fluorobiphenyl (Surr) | 61 | | 20-110 |
| 118-79-6 | 2,4,6-Tribromophenol (Surr) | 71 | | 21-110 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Client Sample ID: MT-MW07S-082212 Lab Sample ID: 240-14454-2

Matrix: Water Lab File ID: O1082814.D

Analysis Method: 8015C Date Collected: 08/22/2012 11:10

Sample wt/vol: 5(mL) Date Analyzed: 08/28/2012 20:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VRX ID: 0.45(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 55983 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 8006-61-9 | Total Petroleum Hydrocarbons (C6-C10) | 36 | J B | 100 | 25 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 98-08-8 | Trifluorotoluene (Surr) | 54 | | 10-150 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-14454-1

SDG No.:

Client Sample ID: MT-MW08S-082212  Lab Sample ID: 240-14454-3

Matrix: Water  Lab File ID: O1082817.D

Analysis Method: 8015C  Date Collected: 08/22/2012 09:40

Sample wt/vol: 5(mL)  Date Analyzed: 08/28/2012 22:26

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-VRX  ID: 0.45(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 55983  Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 8006-61-9 | Total Petroleum Hydrocarbons (C6-C10) | 40 | J B | 100 | 25 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 98-08-8 | Trifluorotoluene (Surr) | 71 | | 10-150 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Client Sample ID: MT-MW10S-082212 Lab Sample ID: 240-14454-4

Matrix: Water Lab File ID: O1082818.D

Analysis Method: 8015C Date Collected: 08/22/2012 13:20

Sample wt/vol: 5(mL) Date Analyzed: 08/28/2012 23:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VRX ID: 0.45(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 55983 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 8006-61-9 | Total Petroleum Hydrocarbons (C6-C10) | 41 | J B | 100 | 25 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 98-08-8 | Trifluorotoluene (Surr) | 55 | | 10-150 |

FORM I

DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-14454-1

SDG No.:

Client Sample ID: MT-MW07S-082212  Lab Sample ID: 240-14454-2

Matrix: Water  Lab File ID: P6F82810.D

Analysis Method: 8015C  Date Collected: 08/22/2012 11:10

Extraction Method: 3520C  Date Extracted: 08/24/2012 11:18

Sample wt/vol: 1010(mL)  Date Analyzed: 08/28/2012 16:06

Con. Extract Vol.: 5(mL)  Dilution Factor: 1

Injection Volume: 1(uL)  GC Column: RTX-5  ID: 0.53(mm)

% Moisture:  GPC Cleanup:(Y/N) N

Analysis Batch No.: 55969  Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| STL00141 | Total Petroleum Hydrocarbons (C10-C32) | 400 | J B | 500 | 240 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 111-84-2 | n-Nonane | 46 | | 10-110 |

FORM I

DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Client Sample ID: MT-MW08S-082212 Lab Sample ID: 240-14454-3

Matrix: Water Lab File ID: P5F82905.D

Analysis Method: 8015C Date Collected: 08/22/2012 09:40

Extraction Method: 3520C Date Extracted: 08/24/2012 11:18

Sample wt/vol: 1010(mL) Date Analyzed: 08/29/2012 14:10

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 56105 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| STL00141 | Total Petroleum Hydrocarbons (C10-C32) | 500 | U | 500 | 240 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 111-84-2 | n-Nonane | 36 | | 10-110 |

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Client Sample ID: MT-MW10S-082212 Lab Sample ID: 240-14454-4

Matrix: Water Lab File ID: P6F82812.D

Analysis Method: 8015C Date Collected: 08/22/2012 13:20

Extraction Method: 3520C Date Extracted: 08/24/2012 11:18

Sample wt/vol: 1050(mL) Date Analyzed: 08/28/2012 17:08

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-5 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 55969 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| STL00141 | Total Petroleum Hydrocarbons (C10-C32) | 330 | J B | 480 | 230 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 111-84-2 | n-Nonane | 54 | | 10-110 |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: MT-MW07S-082212 Lab Sample ID: 240-14454-2

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG ID.:

Matrix: Water Date Sampled: 08/22/2012 11:10

Reporting Basis: WET Date Received: 08/23/2012 09:10

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 0.17 | 2.0 | 0.13 | ug/L | J | | 1 | 6020A |
| 7440-38-2 | Arsenic | 5.0 | 5.0 | 0.40 | ug/L | U | | 1 | 6020A |
| 7440-39-3 | Barium | 20 | 5.0 | 0.19 | ug/L | | B | 1 | 6020A |
| 7440-41-7 | Beryllium | 3.0 | 1.0 | 0.20 | ug/L | | | 1 | 6020A |
| 7440-43-9 | Cadmium | 1.0 | 1.0 | 0.13 | ug/L | U | | 1 | 6020A |
| 7440-47-3 | Chromium | 5.2 | 2.0 | 0.71 | ug/L | | | 1 | 6020A |
| 7440-48-4 | Cobalt | 20 | 1.0 | 0.058 | ug/L | | | 1 | 6020A |
| 7440-50-8 | Copper | 3.4 | 2.0 | 0.29 | ug/L | | B | 1 | 6020A |
| 7439-92-1 | Lead | 0.55 | 1.0 | 0.18 | ug/L | J | | 1 | 6020A |
| 7439-98-7 | Molybdenum | 0.22 | 10 | 0.093 | ug/L | J | B | 1 | 6020A |
| 7440-02-0 | Nickel | 31 | 2.0 | 0.20 | ug/L | | | 1 | 6020A |
| 7782-49-2 | Selenium | 5.0 | 5.0 | 0.57 | ug/L | U | | 1 | 6020A |
| 7440-22-4 | Silver | 1.0 | 1.0 | 0.080 | ug/L | U | | 1 | 6020A |
| 7440-28-0 | Thallium | 0.16 | 2.0 | 0.14 | ug/L | J | B | 1 | 6020A |
| 7440-62-2 | Vanadium | 2.4 | 20 | 0.44 | ug/L | J | | 1 | 6020A |
| 7440-66-6 | Zinc | 53 | 20 | 2.3 | ug/L | | B | 1 | 6020A |

# INORGANIC ANALYSIS DATA SHEET
## METALS - DISSOLVED

Client Sample ID: MT-MW07S-082212 Lab Sample ID: 240-14454-2

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG ID.:

Matrix: Water Date Sampled: 08/22/2012 11:10

Reporting Basis: WET Date Received: 08/23/2012 09:10

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 0.13 | 2.0 | 0.13 | ug/L | J | | 1 | 6020A |
| 7440-38-2 | Arsenic | 5.0 | 5.0 | 0.40 | ug/L | U | | 1 | 6020A |
| 7440-39-3 | Barium | 17 | 5.0 | 0.19 | ug/L | | B | 1 | 6020A |
| 7440-41-7 | Beryllium | 2.9 | 1.0 | 0.20 | ug/L | | | 1 | 6020A |
| 7440-43-9 | Cadmium | 1.0 | 1.0 | 0.13 | ug/L | U | | 1 | 6020A |
| 7440-47-3 | Chromium | 2.0 | 2.0 | 0.71 | ug/L | U | | 1 | 6020A |
| 7440-48-4 | Cobalt | 21 | 1.0 | 0.058 | ug/L | | | 1 | 6020A |
| 7440-50-8 | Copper | 1.5 | 2.0 | 0.29 | ug/L | J | B | 1 | 6020A |
| 7439-92-1 | Lead | 1.0 | 1.0 | 0.18 | ug/L | U | | 1 | 6020A |
| 7439-98-7 | Molybdenum | 0.11 | 10 | 0.093 | ug/L | J | B | 1 | 6020A |
| 7440-02-0 | Nickel | 31 | 2.0 | 0.20 | ug/L | | | 1 | 6020A |
| 7782-49-2 | Selenium | 5.0 | 5.0 | 0.57 | ug/L | U | | 1 | 6020A |
| 7440-22-4 | Silver | 1.0 | 1.0 | 0.080 | ug/L | U | | 1 | 6020A |
| 7440-28-0 | Thallium | 0.14 | 2.0 | 0.14 | ug/L | J | B | 1 | 6020A |
| 7440-62-2 | Vanadium | 20 | 20 | 0.44 | ug/L | U | | 1 | 6020A |
| 7440-66-6 | Zinc | 51 | 20 | 2.3 | ug/L | | B | 1 | 6020A |
| 7439-97-6 | Mercury | 0.20 | 0.20 | 0.12 | ug/L | U | | 1 | 7470A |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MT-MW07S-082212 Lab Sample ID: 240-14454-2

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG ID.:

Matrix: Water Date Sampled: 08/22/2012 11:10

Reporting Basis: WET Date Received: 08/23/2012 09:10

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.39 | 0.20 | 0.12 | ug/L | | | 1 | 7470A |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: MT-MW08S-082212 Lab Sample ID: 240-14454-3

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG ID.:

Matrix: Water Date Sampled: 08/22/2012 09:40

Reporting Basis: WET Date Received: 08/23/2012 09:10

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 0.40 | 2.0 | 0.13 | ug/L | J | | 1 | 6020A |
| 7440-38-2 | Arsenic | 5.0 | 5.0 | 0.40 | ug/L | U | | 1 | 6020A |
| 7440-39-3 | Barium | 63 | 5.0 | 0.19 | ug/L | | B | 1 | 6020A |
| 7440-41-7 | Beryllium | 1.0 | 1.0 | 0.20 | ug/L | U | | 1 | 6020A |
| 7440-43-9 | Cadmium | 1.0 | 1.0 | 0.13 | ug/L | U | | 1 | 6020A |
| 7440-47-3 | Chromium | 1.8 | 2.0 | 0.71 | ug/L | J | | 1 | 6020A |
| 7440-48-4 | Cobalt | 5.9 | 1.0 | 0.058 | ug/L | | | 1 | 6020A |
| 7440-50-8 | Copper | 2.1 | 2.0 | 0.29 | ug/L | | B | 1 | 6020A |
| 7439-92-1 | Lead | 0.29 | 1.0 | 0.18 | ug/L | J | | 1 | 6020A |
| 7439-98-7 | Molybdenum | 0.67 | 10 | 0.093 | ug/L | J | B | 1 | 6020A |
| 7440-02-0 | Nickel | 11 | 2.0 | 0.20 | ug/L | | | 1 | 6020A |
| 7782-49-2 | Selenium | 5.0 | 5.0 | 0.57 | ug/L | U | | 1 | 6020A |
| 7440-22-4 | Silver | 1.0 | 1.0 | 0.080 | ug/L | U | | 1 | 6020A |
| 7440-28-0 | Thallium | 2.0 | 2.0 | 0.14 | ug/L | U | | 1 | 6020A |
| 7440-62-2 | Vanadium | 0.61 | 20 | 0.44 | ug/L | J | | 1 | 6020A |
| 7440-66-6 | Zinc | 12 | 20 | 2.3 | ug/L | J | B | 1 | 6020A |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MT-MW08S-082212 Lab Sample ID: 240-14454-3

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG ID.:

Matrix: Water Date Sampled: 08/22/2012 09:40

Reporting Basis: WET Date Received: 08/23/2012 09:10

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 0.31 | 2.0 | 0.13 | ug/L | J | | 1 | 6020A |
| 7440-38-2 | Arsenic | 5.0 | 5.0 | 0.40 | ug/L | U | | 1 | 6020A |
| 7440-39-3 | Barium | 62 | 5.0 | 0.19 | ug/L | | B | 1 | 6020A |
| 7440-41-7 | Beryllium | 1.0 | 1.0 | 0.20 | ug/L | U | | 1 | 6020A |
| 7440-43-9 | Cadmium | 1.0 | 1.0 | 0.13 | ug/L | U | | 1 | 6020A |
| 7440-47-3 | Chromium | 2.0 | 2.0 | 0.71 | ug/L | U | | 1 | 6020A |
| 7440-48-4 | Cobalt | 5.5 | 1.0 | 0.058 | ug/L | | | 1 | 6020A |
| 7440-50-8 | Copper | 1.4 | 2.0 | 0.29 | ug/L | J | B | 1 | 6020A |
| 7439-92-1 | Lead | 1.0 | 1.0 | 0.18 | ug/L | U | | 1 | 6020A |
| 7439-98-7 | Molybdenum | 0.69 | 10 | 0.093 | ug/L | J | B | 1 | 6020A |
| 7440-02-0 | Nickel | 11 | 2.0 | 0.20 | ug/L | | | 1 | 6020A |
| 7782-49-2 | Selenium | 5.0 | 5.0 | 0.57 | ug/L | U | | 1 | 6020A |
| 7440-22-4 | Silver | 1.0 | 1.0 | 0.080 | ug/L | U | | 1 | 6020A |
| 7440-28-0 | Thallium | 2.0 | 2.0 | 0.14 | ug/L | U | | 1 | 6020A |
| 7440-62-2 | Vanadium | 20 | 20 | 0.44 | ug/L | U | | 1 | 6020A |
| 7440-66-6 | Zinc | 12 | 20 | 2.3 | ug/L | J | B | 1 | 6020A |
| 7439-97-6 | Mercury | 0.20 | 0.20 | 0.12 | ug/L | U | | 1 | 7470A |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MT-MW08S-082212 Lab Sample ID: 240-14454-3

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG ID.:

Matrix: Water Date Sampled: 08/22/2012 09:40

Reporting Basis: WET Date Received: 08/23/2012 09:10

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.20 | 0.20 | 0.12 | ug/L | U | | 1 | 7470A |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: MT-MW10S-082212 Lab Sample ID: 240-14454-4

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG ID.:

Matrix: Water Date Sampled: 08/22/2012 13:20

Reporting Basis: WET Date Received: 08/23/2012 09:10

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 0.15 | 2.0 | 0.13 | ug/L | J | | 1 | 6020A |
| 7440-38-2 | Arsenic | 0.56 | 5.0 | 0.40 | ug/L | J | | 1 | 6020A |
| 7440-39-3 | Barium | 63 | 5.0 | 0.19 | ug/L | | B | 1 | 6020A |
| 7440-41-7 | Beryllium | 23 | 1.0 | 0.20 | ug/L | | | 1 | 6020A |
| 7440-43-9 | Cadmium | 1.0 | 1.0 | 0.13 | ug/L | U | | 1 | 6020A |
| 7440-47-3 | Chromium | 2.5 | 2.0 | 0.71 | ug/L | | | 1 | 6020A |
| 7440-48-4 | Cobalt | 250 | 1.0 | 0.058 | ug/L | | | 1 | 6020A |
| 7440-50-8 | Copper | 1.5 | 2.0 | 0.29 | ug/L | J | B | 1 | 6020A |
| 7439-92-1 | Lead | 0.44 | 1.0 | 0.18 | ug/L | J | | 1 | 6020A |
| 7439-98-7 | Molybdenum | 0.34 | 10 | 0.093 | ug/L | J | B | 1 | 6020A |
| 7440-02-0 | Nickel | 380 | 2.0 | 0.20 | ug/L | | | 1 | 6020A |
| 7782-49-2 | Selenium | 5.0 | 5.0 | 0.57 | ug/L | U | | 1 | 6020A |
| 7440-22-4 | Silver | 1.0 | 1.0 | 0.080 | ug/L | U | | 1 | 6020A |
| 7440-28-0 | Thallium | 0.20 | 2.0 | 0.14 | ug/L | J | B | 1 | 6020A |
| 7440-62-2 | Vanadium | 0.53 | 20 | 0.44 | ug/L | J | | 1 | 6020A |
| 7440-66-6 | Zinc | 370 | 20 | 2.3 | ug/L | | B | 1 | 6020A |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MT-MW10S-082212 Lab Sample ID: 240-14454-4

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG ID.:

Matrix: Water Date Sampled: 08/22/2012 13:20

Reporting Basis: WET Date Received: 08/23/2012 09:10

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 0.14 | 2.0 | 0.13 | ug/L | J | | 1 | 6020A |
| 7440-38-2 | Arsenic | 5.0 | 5.0 | 0.40 | ug/L | U | | 1 | 6020A |
| 7440-39-3 | Barium | 62 | 5.0 | 0.19 | ug/L | | B | 1 | 6020A |
| 7440-41-7 | Beryllium | 22 | 1.0 | 0.20 | ug/L | | | 1 | 6020A |
| 7440-43-9 | Cadmium | 1.0 | 1.0 | 0.13 | ug/L | U | | 1 | 6020A |
| 7440-47-3 | Chromium | 2.0 | 2.0 | 0.71 | ug/L | U | | 1 | 6020A |
| 7440-48-4 | Cobalt | 250 | 1.0 | 0.058 | ug/L | | | 1 | 6020A |
| 7440-50-8 | Copper | 0.29 | 2.0 | 0.29 | ug/L | J | B | 1 | 6020A |
| 7439-92-1 | Lead | 1.0 | 1.0 | 0.18 | ug/L | U | | 1 | 6020A |
| 7439-98-7 | Molybdenum | 0.23 | 10 | 0.093 | ug/L | J | B | 1 | 6020A |
| 7440-02-0 | Nickel | 370 | 2.0 | 0.20 | ug/L | | | 1 | 6020A |
| 7782-49-2 | Selenium | 5.0 | 5.0 | 0.57 | ug/L | U | | 1 | 6020A |
| 7440-22-4 | Silver | 1.0 | 1.0 | 0.080 | ug/L | U | | 1 | 6020A |
| 7440-28-0 | Thallium | 0.19 | 2.0 | 0.14 | ug/L | J | B | 1 | 6020A |
| 7440-62-2 | Vanadium | 20 | 20 | 0.44 | ug/L | U | | 1 | 6020A |
| 7440-66-6 | Zinc | 360 | 20 | 2.3 | ug/L | | B | 1 | 6020A |
| 7439-97-6 | Mercury | 0.20 | 0.20 | 0.12 | ug/L | U | | 1 | 7470A |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MT-MW10S-082212 Lab Sample ID: 240-14454-4

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG ID.:

Matrix: Water Date Sampled: 08/22/2012 13:20

Reporting Basis: WET Date Received: 08/23/2012 09:10

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.20 | 0.20 | 0.12 | ug/L | U | | 1 | 7470A |

**Appendix C**

Support Documentation

# HOLDTIME

**SDG** 240-14408-1

| SORT | UNITS | NSAMPLE | LAB_ID | QC_TYPE | SAMP_DATE | EXTR_DATE | ANAL_DATE | SMP_EXTR | EXTR_ANL | SMP_ANL |
|---|---|---|---|---|---|---|---|---|---|---|
| HG | UG/L | MT-MW07S-082212 | 240-14454-2 | NM | 8/22/2012 | 8/30/2012 | 8/31/2012 | 8 | 1 | 9 |
| HG | UG/L | MT-MW08S-082212 | 240-14454-3 | NM | 8/22/2012 | 8/30/2012 | 8/31/2012 | 8 | 1 | 9 |
| HG | UG/L | MT-MW09S-082112 | 240-14408-2 | NM | 8/21/2012 | 8/30/2012 | 8/31/2012 | 9 | 1 | 10 |
| HG | UG/L | MT-MW10S-082212 | 240-14454-4 | NM | 8/22/2012 | 8/30/2012 | 8/31/2012 | 8 | 1 | 9 |
| HG | UG/L | MT-MW11S-082112 | 240-14408-3 | NM | 8/21/2012 | 8/30/2012 | 8/31/2012 | 9 | 1 | 10 |
| HG | UG/L | MT-MW12S-082112 | 240-14408-4 | NM | 8/21/2012 | 8/30/2012 | 8/31/2012 | 9 | 1 | 10 |
| M | UG/L | MT-MW08S-082212 | 240-14454-3 | NM | 8/22/2012 | 8/30/2012 | 9/6/2012 | 8 | 7 | 15 |
| M | UG/L | MT-MW07S-082212 | 240-14454-2 | NM | 8/22/2012 | 8/30/2012 | 9/6/2012 | 8 | 7 | 15 |
| M | UG/L | MT-MW09S-082112 | 240-14408-2 | NM | 8/21/2012 | 8/30/2012 | 9/6/2012 | 9 | 7 | 16 |
| M | UG/L | MT-MW10S-082212 | 240-14454-4 | NM | 8/22/2012 | 8/30/2012 | 9/6/2012 | 8 | 7 | 15 |
| M | UG/L | MT-MW11S-082112 | 240-14408-3 | NM | 8/21/2012 | 8/30/2012 | 9/6/2012 | 9 | 7 | 16 |
| M | UG/L | MT-MW12S-082112 | 240-14408-4 | NM | 8/21/2012 | 8/30/2012 | 9/6/2012 | 9 | 7 | 16 |
| HGF | UG/L | MT-MW08S-082212 | 240-14454-3 | NM | 8/22/2012 | 8/30/2012 | 8/31/2012 | 8 | 1 | 9 |
| HGF | UG/L | MT-MW12S-082112 | 240-14408-4 | NM | 8/21/2012 | 8/30/2012 | 8/31/2012 | 9 | 1 | 10 |
| HGF | UG/L | MT-MW07S-082212 | 240-14454-2 | NM | 8/22/2012 | 8/30/2012 | 8/31/2012 | 8 | 1 | 9 |

| SORT | UNITS | NSAMPLE | LAB_ID | QC_TYPE | SAMP_DATE | EXTR_DATE | ANAL_DATE | SMP_EXTR | EXTR_ANL | SMP_ANL |
|---|---|---|---|---|---|---|---|---|---|---|
| HGF | UG/L | MT-MW09S-082112 | 240-14408-2 | NM | 8/21/2012 | 8/30/2012 | 8/31/2012 | 9 | 1 | 10 |
| HGF | UG/L | MT-MW10S-082212 | 240-14454-4 | NM | 8/22/2012 | 8/30/2012 | 8/31/2012 | 8 | 1 | 9 |
| HGF | UG/L | MT-MW11S-082112 | 240-14408-3 | NM | 8/21/2012 | 8/30/2012 | 8/31/2012 | 9 | 1 | 10 |
| MF | UG/L | MT-MW09S-082112 | 240-14408-2 | NM | 8/21/2012 | 8/30/2012 | 9/6/2012 | 9 | 7 | 16 |
| MF | UG/L | MT-MW07S-082212 | 240-14454-2 | NM | 8/22/2012 | 8/30/2012 | 9/6/2012 | 8 | 7 | 15 |
| MF | UG/L | MT-MW12S-082112 | 240-14408-4 | NM | 8/21/2012 | 8/30/2012 | 9/6/2012 | 9 | 7 | 16 |
| MF | UG/L | MT-MW08S-082212 | 240-14454-3 | NM | 8/22/2012 | 8/30/2012 | 9/6/2012 | 8 | 7 | 15 |
| MF | UG/L | MT-MW10S-082212 | 240-14454-4 | NM | 8/22/2012 | 8/30/2012 | 9/6/2012 | 8 | 7 | 15 |
| MF | UG/L | MT-MW11S-082112 | 240-14408-3 | NM | 8/21/2012 | 8/30/2012 | 9/6/2012 | 9 | 7 | 16 |
| OS | UG/L | MT-MW09S-082112 | 240-14408-2 | NM | 8/21/2012 | 8/24/2012 | 9/6/2012 | 3 | 13 | 16 |
| OS | UG/L | MT-MW10S-082212 | 240-14454-4 | NM | 8/22/2012 | 8/24/2012 | 9/6/2012 | 2 | 13 | 15 |
| OS | UG/L | MT-MW11S-082112 | 240-14408-3 | NM | 8/21/2012 | 8/24/2012 | 9/6/2012 | 3 | 13 | 16 |
| OS | UG/L | MT-MW12S-082112 | 240-14408-4 | NM | 8/21/2012 | 8/24/2012 | 9/6/2012 | 3 | 13 | 16 |
| OS | UG/L | MT-MW07S-082212 | 240-14454-2 | NM | 8/22/2012 | 8/24/2012 | 9/6/2012 | 2 | 13 | 15 |
| OS | UG/L | MT-MW08S-082212 | 240-14454-3 | NM | 8/22/2012 | 8/24/2012 | 9/6/2012 | 2 | 13 | 15 |
| OV | UG/L | MT-MW12S-082112 | 240-14408-4 | NM | 8/21/2012 | 9/1/2012 | 9/1/2012 | 11 | 0 | 11 |
| OV | UG/L | MT-MW09S-082112 | 240-14408-2 | NM | 8/21/2012 | 8/31/2012 | 8/31/2012 | 10 | 0 | 10 |
| OV | UG/L | TB-082112 | 240-14408-1 | NM | 8/21/2012 | 8/31/2012 | 8/31/2012 | 10 | 0 | 10 |

| SORT | UNITS | NSAMPLE | LAB_ID | QC_TYPE | SAMP_DATE | EXTR_DATE | ANAL_DATE | SMP_EXTR | EXTR_ANL | SMP_ANL |
|---|---|---|---|---|---|---|---|---|---|---|
| OV | UG/L | MT-MW08S-082212 | 240-14454-3 | NM | 8/22/2012 | 9/4/2012 | 9/4/2012 | 13 | 0 | 13 |
| OV | UG/L | MT-MW07S-082212 | 240-14454-2 | NM | 8/22/2012 | 9/4/2012 | 9/4/2012 | 13 | 0 | 13 |
| OV | UG/L | TB-082212 | 240-14454-1 | NM | 8/22/2012 | 9/4/2012 | 9/4/2012 | 13 | 0 | 13 |
| OV | UG/L | MT-MW10S-082212 | 240-14454-4 | NM | 8/22/2012 | 9/4/2012 | 9/4/2012 | 13 | 0 | 13 |
| OV | UG/L | MT-MW11S-082112 | 240-14408-3 | NM | 8/21/2012 | 8/31/2012 | 8/31/2012 | 10 | 0 | 10 |
| DRO | UG/L | MT-MW07S-082212 | 240-14454-2 | NM | 8/22/2012 | 8/24/2012 | 8/28/2012 | 2 | 4 | 6 |
| DRO | UG/L | MT-MW08S-082212 | 240-14454-3 | NM | 8/22/2012 | 8/24/2012 | 8/29/2012 | 2 | 5 | 7 |
| DRO | UG/L | MT-MW09S-082112 | 240-14408-2 | NM | 8/21/2012 | 8/24/2012 | 8/28/2012 | 3 | 4 | 7 |
| DRO | UG/L | MT-MW10S-082212 | 240-14454-4 | NM | 8/22/2012 | 8/24/2012 | 8/28/2012 | 2 | 4 | 6 |
| DRO | UG/L | MT-MW11S-082112 | 240-14408-3 | NM | 8/21/2012 | 8/24/2012 | 8/28/2012 | 3 | 4 | 7 |
| DRO | UG/L | MT-MW12S-082112 | 240-14408-4 | NM | 8/21/2012 | 8/24/2012 | 8/28/2012 | 3 | 4 | 7 |
| GRO | UG/L | MT-MW09S-082112 | 240-14408-2 | NM | 8/21/2012 | 8/26/2012 | 8/26/2012 | 5 | 0 | 5 |
| GRO | UG/L | MT-MW08S-082212 | 240-14454-3 | NM | 8/22/2012 | 8/28/2012 | 8/28/2012 | 6 | 0 | 6 |
| GRO | UG/L | MT-MW10S-082212 | 240-14454-4 | NM | 8/22/2012 | 8/28/2012 | 8/28/2012 | 6 | 0 | 6 |
| GRO | UG/L | MT-MW11S-082112 | 240-14408-3 | NM | 8/21/2012 | 8/26/2012 | 8/26/2012 | 5 | 0 | 5 |
| GRO | UG/L | MT-MW12S-082112 | 240-14408-4 | NM | 8/21/2012 | 8/26/2012 | 8/26/2012 | 5 | 0 | 5 |
| GRO | UG/L | MT-MW07S-082212 | 240-14454-2 | NM | 8/22/2012 | 8/28/2012 | 8/28/2012 | 6 | 0 | 6 |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

Job Number: 240-14454-1

Job Description: MSA Main Terminal Groundwater Sampling

For:
Tetra Tech, Inc
20251 Century Blvd
Suite 200
Germantown, MD 20874

Attention: Tony Apanavage

Patrick O'Meara

Approved for release.
Patrick J O'Meara
Project Manager II
9/7/2012 7:31 PM

Patrick J O'Meara
Project Manager II
patrick.omeara@testamericainc.com
09/07/2012

cc: Samantha Brenner
Ms. Kelly Carper
Vanessa Good
Ms. Tobrena Sedlmyer

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of TestAmerica and its client. All questions regarding this report should be directed to the TestAmerica Project Manager who has signed this report.

**TestAmerica Laboratories, Inc.**
TestAmerica Canton 4101 Shuffel Street NW, North Canton, OH 44720
Tel (330) 497-9396 Fax (330) 497-0772 www.testamericainc.com

## CASE NARRATIVE

## Client: Tetra Tech, Inc

## Project: MSA Main Terminal Groundwater Sampling

## Report Number: 240-14454-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

**RECEIPT**

The samples were received on 08/23/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.2 and 4.1 C.

**VOLATILE ORGANIC COMPOUNDS (GC-MS)**

Samples TB-082212 (240-14454-1), MT-MW07S-082212 (240-14454-2), MT-MW08S-082212 (240-14454-3) and MT-MW10S-082212 (240-14454-4) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 09/04/2012.

Several analytes were detected in method blank MB 240-56575/5 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

2-Chloroethyl vinyl ether failed the recovery criteria low for the MS/MSD of sample 240-14427-1 in batch 240-56575.

No other difficulties were encountered during the VOCs analyses. All other quality control parameters were within the acceptance limits.

**SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)**

Samples MT-MW07S-082212 (240-14454-2), MT-MW08S-082212 (240-14454-3) and MT-MW10S-082212 (240-14454-4) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 08/24/2012 and analyzed on 09/06/2012.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out and no corrective action is required.

The laboratory control sample (LCS) for batch 55629 exceeded control limits for benzaldehyde. This analytes recovery was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 55629. 3520C_Acid 8270C

No other difficulties were encountered during the SVOCs analyses. All other quality control parameters were within the acceptance limits.

**GASOLINE RANGE ORGANICS (GRO)**

Samples MT-MW07S-082212 (240-14454-2), MT-MW08S-082212 (240-14454-3) and MT-MW10S-082212 (240-14454-4) were analyzed

for gasoline range organics (GRO) in accordance with EPA SW-846 Method 8015C - GRO. The samples were analyzed on 08/28/2012.

Total Petroleum Hydrocarbons (C6-C10) was detected in method blank MB 240-55983/11 at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

No other difficulties were encountered during the gasoline analyses. All other quality control parameters were within the acceptance limits.

**DIESEL RANGE ORGANICS (DRO)**
Samples MT-MW07S-082212 (240-14454-2), MT-MW08S-082212 (240-14454-3) and MT-MW10S-082212 (240-14454-4) were analyzed for diesel range organics (DRO) in accordance with EPA-SW-846 Method 8015C - DRO. The samples were prepared on 08/24/2012 and analyzed on 08/28/2012 and 08/29/2012.

Total Petroleum Hydrocarbons (C10-C32) was detected in method blank MB 240-55631/7-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 55631. 3520C 8015C_DRO

No other difficulties were encountered during the DRO analyses. All other quality control parameters were within the acceptance limits.

**DISSOLVED METALS (ICPMS)**
Samples MT-MW07S-082212 (240-14454-2), MT-MW08S-082212 (240-14454-3) and MT-MW10S-082212 (240-14454-4) were analyzed for dissolved metals (ICPMS) in accordance with EPA SW-846 Methods 6020A. The samples were prepared on 08/30/2012 and analyzed on 09/06/2012.

No difficulties were encountered during the metals analyses. All quality control parameters were within the acceptance limits.

**METALS (ICPMS)**
Samples MT-MW07S-082212 (240-14454-2), MT-MW08S-082212 (240-14454-3) and MT-MW10S-082212 (240-14454-4) were analyzed for metals (ICPMS) in accordance with EPA SW-846 Method 6020A. The samples were prepared on 08/30/2012 and analyzed on 09/06/2012.

Several analytes were detected in method blank MB 240-56218/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

No other difficulties were encountered during the metals analyses. All other quality control parameters were within the acceptance limits.

**DISSOLVED MERCURY**
Samples MT-MW07S-082212 (240-14454-2), MT-MW08S-082212 (240-14454-3) and MT-MW10S-082212 (240-14454-4) were analyzed for dissolved mercury (CVAA) in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 08/30/2012 and analyzed on 08/31/2012.

No difficulties were encountered during the mercury analyses. All quality control parameters were within the acceptance limits.

**TOTAL MERCURY**
Samples MT-MW07S-082212 (240-14454-2), MT-MW08S-082212 (240-14454-3) and MT-MW10S-082212 (240-14454-4) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 08/30/2012 and analyzed on 08/31/2012.

No difficulties were encountered during the mercury analyses. All quality control parameters were within the acceptance limits.

## SAMPLE SUMMARY

Client: Tetra Tech, Inc

Job Number: 240-14454-1

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|---|---|---|---|---|
| 240-14454-1 | TB-082212 | Water | 08/22/2012 0000 | 08/23/2012 0910 |
| 240-14454-2 | MT-MW07S-082212 | Water | 08/22/2012 1110 | 08/23/2012 0910 |
| 240-14454-3 | MT-MW08S-082212 | Water | 08/22/2012 0940 | 08/23/2012 0910 |
| 240-14454-4 | MT-MW10S-082212 | Water | 08/22/2012 1320 | 08/23/2012 0910 |

# METHOD SUMMARY

Client: Tetra Tech, Inc

Job Number: 240-14454-1

| Description | Lab Location | Method | Preparation Method |
|---|---|---|---|
| **Matrix: Water** | | | |
| Volatile Organic Compounds (GC/MS) | TAL NC | SW846 8260B | |
| Purge and Trap | TAL NC | | SW846 5030B |
| Semivolatile Organic Compounds (GC/MS) | TAL NC | SW846 8270D | |
| Liquid-Liquid Extraction (Continuous) | TAL NC | | SW846 3520C |
| Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics) | TAL NC | SW846 8015C | |
| Purge and Trap | TAL NC | | SW846 5030B |
| Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics) | TAL NC | SW846 8015C | |
| Liquid-Liquid Extraction (Continuous) | TAL NC | | SW846 3520C |
| Metals (ICP/MS) | TAL NC | SW846 6020A | |
| Preparation, Total Recoverable or Dissolved Metals | TAL NC | | SW846 3005A |
| Metals (ICP/MS) | TAL NC | SW846 6020A | |
| Preparation, Total Recoverable or Dissolved Metals | TAL NC | | SW846 3005A |
| Sample Filtration, Field | | | FIELD_FLTRD |
| Mercury (CVAA) | TAL NC | SW846 7470A | |
| Preparation, Mercury | TAL NC | | SW846 7470A |
| Mercury (CVAA) | TAL NC | SW846 7470A | |
| Preparation, Mercury | TAL NC | | SW846 7470A |
| Sample Filtration, Field | | | FIELD_FLTRD |

**Lab References:**

TAL NC = TestAmerica Canton

**Method References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

## METHOD / ANALYST SUMMARY

Client: Tetra Tech, Inc

Job Number: 240-14454-1

| Method | Analyst | Analyst ID |
|---|---|---|
| SW846 8260B | Quayle, Rick | RQ |
| SW846 8270D | Ulman, Mark | MU |
| SW846 8015C | Bosworth, Heather M | HMB |
| SW846 8015C | Bolgrin, Deborah | DB |
| SW846 6020A | Davies, Brian | BD |
| SW846 7470A | Davies, Brian | BD |

**North Canton**
4101 Shuffel Street, N. W.

North Canton, OH 44720
phone 330.497.9396 fax 330.497.0772

# Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

**TestAmerica Laboratories, Inc.**

| Client Contact | Project Manager: Tony Apanavage | Site Contact: Stuart Cameron | Date: 8-22-12 | COC No: |
|---|---|---|---|---|
| Tera Tech | Tel/Fax: 301-233-8230 (cell) | Lab Contact: Pat Omeara | Carrier: Fedex | 1 of 1 COCs |
| 20251 Century Blvd, Suite 200 | **Analysis Turnaround Time** | | | Job No. 112IC04054 - 05 |
| Germantown, MD 20874 | Calendar ( C ) or Work Days (W) _____ | | | |
| Phone: (301) 528-3021 | TAT if different from Below 21 days | | | SDG No. |
| Fax: (301) 528-3000 | ☐ 2 weeks | | | |
| Project Name: Main Terminal Groundwater Sampling | ☐ 1 week | | | |
| Site: Main Terminal, Martin State Airport | ☐ 2 days | | | Sampler: S. Cameron |
| P O # | ☐ 1 day | | | |

| Sample Identification | Sample Date | Sample Time | Sample Type | Matrix | # of Cont. | Filtered Sample | VOCs | SVOCs / 1,4-Dioxane | TPH-GRO | TPH-DRO | Total Metals | Dissolved Metals | Sample Specific Notes: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TB-082212 | – | – | GW | Water | 2 | | X | | | | | | |
| MT-MW07S-082212 | 8-22-12 | 1110 | GW | Water | 12 | 1 | X | X | X | X | X | X | |
| MT-MW08S-082212 | ↓ | 0940 | GW | Water | 12 | 1 | X | X | X | X | X | X | |
| MT-MW10S-082212 | ↓ | 1320 | GW | Water | 12 | 1 | X | X | X | X | X | X | |
| | | | GW | Water | | | | | | | | | |
| | | | GW | Water | | | | | | | | | |
| | | | GW | Water | | | | | | | | | |
| | | | GW | Water | | | | | | | | | |
| | | | GW | Water | | | | | | | | | |
| | | | GW | Water | | | | | | | | | |
| | | | GW | Water | | | | | | | | | |
| | | | GW | Water | | | | | | | | | |

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

*Possible Hazard Identification*
☒ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

*Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)*
☐ *Return To Client* ☒ *Disposal By Lab* ☐ *Archive For* _____ *Months*

**Special Instructions/QC Requirements & Comments: DISSOLVED METALS FILTERED IN FIELD**

| Relinquished by: | Company: | Date/Time: | Received by: | Company: | Date/Time: |
|---|---|---|---|---|---|
| | Tera Tech | 8-22-12/1500 | | TA | 8-23-12 910 |
| Relinquished by: | Company: | Date/Time: | Received by: | Company: | Date/Time: |
| Relinquished by: | Company: | Date/Time: | Received by: | Company: | Date/Time: |

Form No. CA-C-WI-002, Rev. 2, dated 03/06/2012

**TestAmerica Canton Sample Receipt Form/Narrative** **Login # : 14454**

Client Tetra Tech Site Name _____ By: _____

Cooler Received on 8-23-12 Opened on 8-23-12 (Signature)

FedEx: 1st Grd (Exp) UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

TestAmerica Cooler # _____ Foam Box (Client Cooler) Box Other _____

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other _____

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

| | | | | | |
|---|---|---|---|---|---|
| IR GUN# 1 | (CF 0°C) | Observed Sample Temp._____°C | Corrected Sample Temp._____°C | | |
| IR GUN# 4G | (CF –1°C) | Observed Sample Temp._____°C | Corrected Sample Temp._____°C | | |
| IR GUN# 5G | (CF –1°C) | Observed Sample Temp. 4.2 °C | Corrected Sample Temp. 3.2 °C | BACK | ☐ Multiple on Back |
| IR GUN# 8 | (CF 0°C) | Observed Sample Temp._____°C | Corrected Sample Temp._____°C | | |

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 4 (Yes) No
   -Were custody seals on the outside of the cooler(s) signed & dated? (Yes) No NA
   -Were custody seals on the bottle(s)? Yes (No)
3. Shippers' packing slip attached to the cooler(s)? (Yes) No
4. Did custody papers accompany the sample(s)? (Yes) No
5. Were the custody papers relinquished & signed in the appropriate place? (Yes) No
6. Did all bottles arrive in good condition (Unbroken)? (Yes) No
7. Could all bottle labels be reconciled with the COC? (Yes) No
8. Were correct bottle(s) used for the test(s) indicated? (Yes) No
9. Sufficient quantity received to perform indicated analyses? (Yes) No
10. Were sample(s) at the correct pH upon receipt? (Yes) No NA
11. Were VOAs on the COC? (Yes) No
12. Were air bubbles >6 mm in any VOA vials? Yes (No) NA
13. Was a trip blank present in the cooler(s)? (Yes) No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

**14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES**

**15. SAMPLE CONDITION**

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

## 16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). Nitric Acid Lot# 031512-HNO3; Sulfuric Acid Lot# 041911-H2SO4; Sodium Hydroxide Lot# 121809 - NaOH; Hydrochloric Acid Lot# 041911-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-(CH3COO)2ZN/NaOH. What time was preservative added to sample(s)? _____

| Client ID | pH | Date | Initials |
|---|---|---|---|
| 78 | 12 12 | 8-23-12 | AP |
| 85 | 12 12 | " | " |
| 105 | 12 12 | " | " |

| Cooler # | Observed Sample Temp. °C | Corrected Sample Temp. °C | IR # | Coolant |
|---|---|---|---|---|
| Client | 4.2 | 3.2 | 5B | Ice |
| Nalt | 5.1 | 4.1 | " | " |

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

| Client Sample ID | Lab Sample ID | DBFM # | DCA # | TOL # | BFB # |
|---|---|---|---|---|---|
| TB-082212 | 240-14454-1 | 103 | 72 | 88 | 87 |
| MT-MW07S-082212 | 240-14454-2 | 105 | 72 | 88 | 88 |
| MT-MW08S-082212 | 240-14454-3 | 102 | 74 | 87 | 90 |
| MT-MW10S-082212 | 240-14454-4 | 99 | 71 | 86 | 85 |
| | MB 240-56575/5 | 101 | 71 | 86 | 86 |
| | LCS 240-56575/4 | 99 | 74 | 89 | 92 |
| | 240-14427-E-1 MS | 99 | 75 | 91 | 92 |
| | 240-14427-E-1 MSD | 99 | 73 | 87 | 91 |

| | QC LIMITS |
|---|---|
| DBFM = Dibromofluoromethane (Surr) | 75-121 |
| DCA = 1,2-Dichloroethane-d4 (Surr) | 63-129 |
| TOL = Toluene-d8 (Surr) | 74-115 |
| BFB = 4-Bromofluorobenzene (Surr) | 66-117 |

# Column to be used to flag recovery values

FORM II 8260B

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Instrument ID: A3UX10 Start Date: 08/02/2012 15:37

Analysis Batch Number: 53056 End Date: 08/02/2012 20:17

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| BFB 240-53056/1 | | 08/02/2012 15:37 | 1 | BFB4857.D | DB-624 0.18(mm) |
| STD8260 240-53056/2 IC | | 08/02/2012 16:00 | 1 | UXX8048.D | DB-624 0.18(mm) |
| STD8260 240-53056/3 IC | | 08/02/2012 16:22 | 1 | UXX8049.D | DB-624 0.18(mm) |
| STD8260 240-53056/4 ICIS | | 08/02/2012 16:43 | 1 | UXX8050.D | DB-624 0.18(mm) |
| STD8260 240-53056/5 IC | | 08/02/2012 17:04 | 1 | UXX8051.D | DB-624 0.18(mm) |
| STD8260 240-53056/6 IC | | 08/02/2012 17:26 | 1 | UXX8052.D | DB-624 0.18(mm) |
| STD8260 240-53056/7 IC | | 08/02/2012 17:47 | 1 | UXX8053.D | DB-624 0.18(mm) |
| STDA9 240-53056/8 IC | | 08/02/2012 18:08 | 1 | UXX8054.D | DB-624 0.18(mm) |
| STDA9 240-53056/9 IC | | 08/02/2012 18:30 | 1 | UXX8055.D | DB-624 0.18(mm) |
| STDA9 240-53056/10 IC | | 08/02/2012 18:51 | 1 | UXX8056.D | DB-624 0.18(mm) |
| STDA9 240-53056/11 IC | | 08/02/2012 19:12 | 1 | UXX8057.D | DB-624 0.18(mm) |
| STDA9 240-53056/12 IC | | 08/02/2012 19:34 | 1 | UXX8058.D | DB-624 0.18(mm) |
| STDA9 240-53056/13 IC | | 08/02/2012 19:56 | 1 | UXX8059.D | DB-624 0.18(mm) |
| ICV 240-53056/14 | | 08/02/2012 20:17 | 1 | UXX8060.D | DB-624 0.18(mm) |

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Lab File ID: BFB4857.D BFB Injection Date: 08/02/2012

Instrument ID: A3UX10 BFB Injection Time: 15:37

Analysis Batch No.: 53056

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 50 | 15.0 - 40.0 % of mass 95 | 20.7 | |
| 75 | 30.0 - 60.0 % of mass 95 | 51.2 | |
| 95 | Base Peak, 100% relative abundance | 100.0 | |
| 96 | 5.0 - 9.0 % of mass 95 | 7.2 | |
| 173 | Less than 2.0 % of mass 174 | 0.2 | (0.2)1 |
| 174 | 50.0 - 120.00 % of mass 95 | 79.7 | |
| 175 | 5.0 - 9.0 % of mass 174 | 6.1 | (7.7)1 |
| 176 | 95.0 - 101.0 % of mass 174 | 79.0 | (99.1)1 |
| 177 | 5.0 - 9.0 % of mass 176 | 5.4 | (6.9)2 |

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | STD8260 240-53056/2 | UXX8048.D | 08/02/2012 | 16:00 |
| | STD8260 240-53056/3 | UXX8049.D | 08/02/2012 | 16:22 |
| | STD8260 240-53056/4 | UXX8050.D | 08/02/2012 | 16:43 |
| | STD8260 240-53056/5 | UXX8051.D | 08/02/2012 | 17:04 |
| | STD8260 240-53056/6 | UXX8052.D | 08/02/2012 | 17:26 |
| | STD8260 240-53056/7 | UXX8053.D | 08/02/2012 | 17:47 |
| | STDA9 240-53056/8 | UXX8054.D | 08/02/2012 | 18:08 |
| | STDA9 240-53056/9 | UXX8055.D | 08/02/2012 | 18:30 |
| | STDA9 240-53056/10 | UXX8056.D | 08/02/2012 | 18:51 |
| | STDA9 240-53056/11 | UXX8057.D | 08/02/2012 | 19:12 |
| | STDA9 240-53056/12 | UXX8058.D | 08/02/2012 | 19:34 |
| | STDA9 240-53056/13 | UXX8059.D | 08/02/2012 | 19:56 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-14454-1 Analy Batch No.: 53056

SDG No.:

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/02/2012 16:00 Calibration End Date: 08/02/2012 17:47 Calibration ID: 10418

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD8260 240-53056/7 | UXX8053.D |
| Level 2 | STD8260 240-53056/6 | UXX8052.D |
| Level 3 | STD8260 240-53056/5 | UXX8051.D |
| Level 4 | STD8260 240-53056/4 | UXX8050.D |
| Level 5 | STD8260 240-53056/3 | UXX8049.D |
| Level 6 | STD8260 240-53056/2 | UXX8048.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Dichlorodifluoromethane | 0.2336<br>0.2521 | 0.2483 | 0.2761 | 0.2368 | 0.2556 | Ave | | 0.2504 | | | | 6.1 | | 15.0 | | | |
| Chloromethane | 0.3622<br>0.3229 | 0.3607 | 0.3695 | 0.3188 | 0.3489 | Ave | | 0.3471 | | | 0.1000 | 6.2 | | 15.0 | | | |
| Vinyl chloride | 0.2434<br>0.2477 | 0.2627 | 0.2803 | 0.2526 | 0.2664 | Ave | | 0.2589 | | | | 5.3 | | 15.0 | | | |
| Bromomethane | 0.1073<br>0.0929 | 0.1155 | 0.1110 | 0.1011 | 0.0985 | Ave | | 0.1044 | | | | 8.1 | | 15.0 | | | |
| Chloroethane | 0.1490<br>0.1314 | 0.1582 | 0.1562 | 0.1416 | 0.1425 | Ave | | 0.1465 | | | | 6.9 | | 15.0 | | | |
| Trichlorofluoromethane | 0.2438<br>0.2679 | 0.2809 | 0.2719 | 0.2592 | 0.2680 | Ave | | 0.2653 | | | | 4.8 | | 15.0 | | | |
| Acrolein | 0.0211<br>0.0192 | 0.0190 | 0.0213 | 0.0203 | 0.0224 | Ave | | 0.0205 | | | | 6.4 | | 15.0 | | | |
| 1,1-Dichloroethene | 0.1918<br>0.1816 | 0.2107 | 0.1989 | 0.1974 | 0.2182 | Ave | | 0.1998 | | | | 6.6 | | 15.0 | | | |
| Acetone | 0.1107<br>0.0583 | 0.0842 | 0.0667 | 0.0675 | 0.0652 | Lin1 | 0.1045 | 0.0591 | | | | | | | 0.9970 | | 0.9900 |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 0.1452<br>0.1394 | 0.1547 | 0.1693 | 0.1448 | 0.1627 | Ave | | 0.1527 | | | | 7.6 | | 15.0 | | | |
| Iodomethane | 0.3086<br>0.3079 | 0.3362 | 0.3310 | 0.3088 | 0.3301 | Ave | | 0.3204 | | | | 4.2 | | 15.0 | | | |
| Carbon disulfide | 0.7250<br>0.7903 | 0.8102 | 0.7710 | 0.7541 | 0.8269 | Ave | | 0.7796 | | | | 4.8 | | 15.0 | | | |
| Acetonitrile | 0.0244<br>0.0152 | 0.0195 | 0.0189 | 0.0182 | 0.0169 | Lin1 | 0.1001 | 0.0157 | | | | | | | 0.9950 | | 0.9900 |
| Methyl acetate | 0.2246<br>0.2118 | 0.2178 | 0.2044 | 0.2061 | 0.2239 | Ave | | 0.2148 | | | | 4.1 | | 15.0 | | | |
| Methylene Chloride | 0.4694<br>0.2570 | 0.3829 | 0.3169 | 0.2709 | 0.2737 | Lin1 | 0.2361 | 0.2547 | | | | | | | 0.9990 | | 0.9900 |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-14454-1  Analy Batch No.: 53056

SDG No.:

Instrument ID: A3UX10  GC Column: DB-624  ID: 0.18(mm)  Heated Purge: (Y/N) N

Calibration Start Date: 08/02/2012 16:00  Calibration End Date: 08/02/2012 17:47  Calibration ID: 10418

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| tert-Butyl alcohol | 0.0165<br>0.0116 | 0.0148 | 0.0132 | 0.0147 | 0.0145 | Ave | | 0.0142 | | | | 12.0 | | 15.0 | | | |
| Acrylonitrile | 0.0927<br>0.0948 | 0.0948 | 0.0935 | 0.0968 | 0.0962 | Ave | | 0.0948 | | | | 1.6 | | 15.0 | | | |
| Methyl tert-butyl ether | 0.6574<br>0.7584 | 0.7478 | 0.7704 | 0.7389 | 0.7876 | Ave | | 0.7434 | | | | 6.1 | | 15.0 | | | |
| trans-1,2-Dichloroethene | 0.2451<br>0.2469 | 0.2554 | 0.2546 | 0.2434 | 0.2622 | Ave | | 0.2513 | | | | 2.9 | | 15.0 | | | |
| Hexane | 0.0526<br>0.0560 | 0.0506 | 0.0535 | 0.0509 | 0.0583 | Ave | | 0.0537 | | | | 5.6 | | 15.0 | | | |
| 1,1-Dichloroethane | 0.4415<br>0.4749 | 0.4880 | 0.4750 | 0.4733 | 0.4919 | Ave | | 0.4741 | | | 0.1000 | 3.7 | | 15.0 | | | |
| Vinyl acetate | 0.0225<br>0.0331 | 0.0276 | 0.0356 | 0.0309 | 0.0335 | Lin1 | -0.010 | 0.0335 | | | | | | | 0.9980 | | 0.9900 |
| 2-Butanone | 0.1041<br>0.1012 | 0.1083 | 0.0990 | 0.1033 | 0.1032 | Ave | | 0.1031 | | | | 3.0 | | 15.0 | | | |
| cis-1,2-Dichloroethene | 0.2279<br>0.2621 | 0.2593 | 0.2727 | 0.2580 | 0.2762 | Ave | | 0.2594 | | | | 6.6 | | 15.0 | | | |
| 2,2-Dichloropropane | 0.2888<br>0.3039 | 0.3097 | 0.2920 | 0.2992 | 0.3202 | Ave | | 0.3023 | | | | 3.8 | | 15.0 | | | |
| Bromochloromethane | 0.0951<br>0.1148 | 0.1259 | 0.1207 | 0.1102 | 0.1164 | Ave | | 0.1139 | | | | 9.3 | | 15.0 | | | |
| Tetrahydrofuran | 0.0728<br>0.0690 | 0.0788 | 0.0823 | 0.0736 | 0.0774 | Ave | | 0.0757 | | | | 6.3 | | 15.0 | | | |
| Chloroform | 0.4562<br>0.4643 | 0.4865 | 0.4854 | 0.4430 | 0.4722 | Ave | | 0.4679 | | | | 3.6 | | 15.0 | | | |
| 1,1,1-Trichloroethane | 0.3485<br>0.3958 | 0.3695 | 0.3772 | 0.3769 | 0.4058 | Ave | | 0.3789 | | | | 5.3 | | 15.0 | | | |
| Cyclohexane | 0.3812<br>0.4803 | 0.4539 | 0.4452 | 0.4529 | 0.4982 | Ave | | 0.4519 | | | | 8.9 | | 15.0 | | | |
| 1,1-Dichloropropene | 0.2988<br>0.3499 | 0.3322 | 0.3305 | 0.3284 | 0.3526 | Ave | | 0.3321 | | | | 5.8 | | 15.0 | | | |
| Carbon tetrachloride | 0.2736<br>0.3281 | 0.2988 | 0.3078 | 0.3075 | 0.3355 | Ave | | 0.3085 | | | | 7.1 | | 15.0 | | | |
| 1,2-Dichloroethane | 0.3356<br>0.3878 | 0.3761 | 0.3986 | 0.3692 | 0.3914 | Ave | | 0.3765 | | | | 6.0 | | 15.0 | | | |
| Benzene | 0.9506<br>1.0041 | 0.9618 | 0.9974 | 0.9720 | 1.0164 | Ave | | 0.9837 | | | | 2.6 | | 15.0 | | | |
| Trichloroethene | 0.2270<br>0.2288 | 0.2294 | 0.2301 | 0.2173 | 0.2324 | Ave | | 0.2275 | | | | 2.3 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-14454-1 Analy Batch No.: 53056

SDG No.:

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/02/2012 16:00 Calibration End Date: 08/02/2012 17:47 Calibration ID: 10418

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Methylcyclohexane | 0.2871<br>0.3802 | 0.3489 | 0.3339 | 0.3462 | 0.3828 | Ave | | 0.3465 | | | | 10.0 | | 15.0 | | | |
| 1,2-Dichloropropane | 0.2103<br>0.2389 | 0.2342 | 0.2545 | 0.2323 | 0.2456 | Ave | | 0.2359 | | | | 6.3 | | 15.0 | | | |
| Dibromomethane | 0.1226<br>0.1304 | 0.1288 | 0.1360 | 0.1282 | 0.1360 | Ave | | 0.1303 | | | | 3.9 | | 15.0 | | | |
| 1,4-Dioxane | 0.0009<br>0.0009 | 0.0010 | 0.0014 | 0.0015 | 0.0014 | Qua | -0.072 | 0.0019 | 0 | | | | | | 0.9990 | | 0.9900 |
| Bromodichloromethane | 0.2853<br>0.3318 | 0.3048 | 0.3256 | 0.3085 | 0.3329 | Ave | | 0.3148 | | | | 5.9 | | 15.0 | | | |
| 2-Chloroethyl vinyl ether | 0.1019<br>0.1347 | 0.1120 | 0.1235 | 0.1254 | 0.1347 | Ave | | 0.1220 | | | | 11.0 | | 15.0 | | | |
| cis-1,3-Dichloropropene | 0.2840<br>0.3766 | 0.3115 | 0.3582 | 0.3414 | 0.3843 | Ave | | 0.3427 | | | | 11.0 | | 15.0 | | | |
| 4-Methyl-2-pentanone | 0.2025<br>0.2198 | 0.1962 | 0.2221 | 0.2149 | 0.2280 | Ave | | 0.2139 | | | | 5.7 | | 15.0 | | | |
| Toluene | 1.3533<br>1.5679 | 1.4774 | 1.4998 | 1.5281 | 1.6034 | Ave | | 1.5050 | | | | 5.8 | | 15.0 | | | |
| trans-1,3-Dichloropropene | 0.4205<br>0.5334 | 0.4229 | 0.4697 | 0.4991 | 0.5379 | Ave | | 0.4806 | | | | 11.0 | | 15.0 | | | |
| Ethyl methacrylate | 0.2557<br>0.4406 | 0.3567 | 0.3891 | 0.4188 | 0.4464 | Lin1 | -0.199 | 0.4468 | | | | | | | 1.0000 | | 0.9900 |
| 1,1,2-Trichloroethane | 0.2644<br>0.2840 | 0.2662 | 0.2946 | 0.2864 | 0.2972 | Ave | | 0.2821 | | | | 4.9 | | 15.0 | | | |
| 1,3-Dichloropropane | 0.4784<br>0.5299 | 0.5260 | 0.5261 | 0.5347 | 0.5632 | Ave | | 0.5264 | | | | 5.2 | | 15.0 | | | |
| Tetrachloroethene | 0.2726<br>0.2825 | 0.2730 | 0.2775 | 0.2869 | 0.2914 | Ave | | 0.2807 | | | | 2.7 | | 15.0 | | | |
| 2-Hexanone | 0.1960<br>0.2102 | 0.1913 | 0.1964 | 0.2220 | 0.2230 | Ave | | 0.2065 | | | | 6.7 | | 15.0 | | | |
| Dibromochloromethane | 0.2799<br>0.3178 | 0.2775 | 0.3079 | 0.3097 | 0.3278 | Ave | | 0.3034 | | | | 6.7 | | 15.0 | | | |
| 1,2-Dibromoethane | 0.2355<br>0.2749 | 0.2482 | 0.2756 | 0.2777 | 0.2911 | Ave | | 0.2672 | | | | 7.8 | | 15.0 | | | |
| Chlorobenzene | 0.8342<br>0.8955 | 0.8767 | 0.8721 | 0.8660 | 0.9191 | Ave | | 0.8773 | | | 0.3000 | 3.3 | | 15.0 | | | |
| 1,1,1,2-Tetrachloroethane | 0.2846<br>0.3213 | 0.3225 | 0.3173 | 0.3203 | 0.3351 | Ave | | 0.3168 | | | | 5.4 | | 15.0 | | | |
| Ethylbenzene | 0.4577<br>0.4984 | 0.4721 | 0.4869 | 0.4951 | 0.5205 | Ave | | 0.4885 | | | | 4.5 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-14454-1 Analy Batch No.: 53056

SDG No.:

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/02/2012 16:00 Calibration End Date: 08/02/2012 17:47 Calibration ID: 10418

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| m-Xylene & p-Xylene | 0.5118<br>0.6225 | 0.5852 | 0.6170 | 0.6151 | 0.6461 | Ave | | 0.5996 | | | | 7.9 | | 15.0 | | | |
| o-Xylene | 0.5038<br>0.5812 | 0.6160 | 0.6030 | 0.6054 | 0.6336 | Ave | | 0.5905 | | | | 7.8 | | 15.0 | | | |
| Styrene | 0.7364<br>0.9649 | 0.8774 | 0.9304 | 0.9580 | 1.0310 | Ave | | 0.9164 | | | | 11.0 | | 15.0 | | | |
| Bromoform | 0.1468<br>0.1860 | 0.1676 | 0.1752 | 0.1828 | 0.1944 | Ave | | 0.1755 | | | 0.1000 | 9.5 | | 15.0 | | | |
| Isopropylbenzene | 1.2132<br>1.5311 | 1.4867 | 1.4808 | 1.4780 | 1.6149 | Ave | | 1.4674 | | | | 9.2 | | 15.0 | | | |
| 1,1,2,2-Tetrachloroethane | 0.6440<br>0.6951 | 0.6632 | 0.7227 | 0.7273 | 0.7342 | Ave | | 0.6978 | | | 0.3000 | 5.3 | | 15.0 | | | |
| Bromobenzene | 0.6447<br>0.7109 | 0.6359 | 0.6647 | 0.6880 | 0.7183 | Ave | | 0.6771 | | | | 5.1 | | 15.0 | | | |
| 1,2,3-Trichloropropane | 0.2073<br>0.2404 | 0.2090 | 0.2471 | 0.2369 | 0.2474 | Ave | | 0.2313 | | | | 8.0 | | 15.0 | | | |
| trans-1,4-Dichloro-2-butene | 0.1731<br>0.2584 | 0.1867 | 0.2140 | 0.2226 | 0.2514 | Lin1 | -0.121 | 0.2556 | | | | | | | 0.9980 | | 0.9900 |
| n-Propylbenzene | 0.6089<br>0.7689 | 0.6360 | 0.7151 | 0.7241 | 0.7787 | Ave | | 0.7053 | | | | 9.8 | | 15.0 | | | |
| 2-Chlorotoluene | 0.5495<br>0.6512 | 0.6118 | 0.6442 | 0.6484 | 0.6650 | Ave | | 0.6283 | | | | 6.8 | | 15.0 | | | |
| 1,3,5-Trimethylbenzene | 1.7914<br>2.4406 | 2.2017 | 2.3123 | 2.3486 | 2.5337 | Ave | | 2.2714 | | | | 11.0 | | 15.0 | | | |
| 4-Chlorotoluene | 0.5833<br>0.6779 | 0.6229 | 0.6657 | 0.6560 | 0.6917 | Ave | | 0.6496 | | | | 6.1 | | 15.0 | | | |
| tert-Butylbenzene | 1.4506<br>2.1650 | 1.8990 | 1.8447 | 2.1076 | 1.9964 | Ave | | 1.9106 | | | | 13.0 | | 15.0 | | | |
| 1,2,4-Trimethylbenzene | 1.9069<br>2.4226 | 2.2928 | 2.3929 | 2.3165 | 2.5132 | Ave | | 2.3075 | | | | 9.2 | | 15.0 | | | |
| sec-Butylbenzene | 1.9213<br>2.5390 | 2.3235 | 2.4623 | 2.4414 | 2.6413 | Ave | | 2.3881 | | | | 11.0 | | 15.0 | | | |
| 1,3-Dichlorobenzene | 1.1618<br>1.2560 | 1.2679 | 1.2691 | 1.2438 | 1.2956 | Ave | | 1.2490 | | | | 3.7 | | 15.0 | | | |
| p-Isopropyltoluene | 1.5826<br>2.0932 | 2.0256 | 2.0592 | 2.0326 | 2.1529 | Ave | | 1.9910 | | | | 10.0 | | 15.0 | | | |
| 1,4-Dichlorobenzene | 1.1722<br>1.3159 | 1.3172 | 1.3163 | 1.2592 | 1.3389 | Ave | | 1.2866 | | | | 4.8 | | 15.0 | | | |
| n-Butylbenzene | 1.3723<br>1.7652 | 1.6891 | 1.6905 | 1.6640 | 1.7910 | Ave | | 1.6620 | | | | 9.0 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-14454-1  Analy Batch No.: 53056

SDG No.:

Instrument ID: A3UX10  GC Column: DB-624  ID: 0.18(mm)  Heated Purge: (Y/N) N

Calibration Start Date: 08/02/2012 16:00  Calibration End Date: 08/02/2012 17:47  Calibration ID: 10418

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 1,2-Dichlorobenzene | 1.1959<br>1.1537 | 1.3311 | 1.2448 | 1.1862 | 1.2333 | Ave | | 1.2242 | | | | 5.1 | | 15.0 | | | |
| 1,2-Dibromo-3-Chloropropane | 0.1096<br>0.1145 | 0.1260 | 0.1210 | 0.1161 | 0.1176 | Ave | | 0.1175 | | | | 4.8 | | 15.0 | | | |
| 1,3,5-Trichlorobenzene | 0.6961<br>0.6707 | 0.8693 | 0.7309 | 0.7172 | 0.7160 | Ave | | 0.7334 | | | | 9.5 | | 15.0 | | | |
| 1,2,4-Trichlorobenzene | 0.5949<br>0.6096 | 0.7896 | 0.6238 | 0.6252 | 0.6194 | Ave | | 0.6438 | | | | 11.0 | | 15.0 | | | |
| Hexachlorobutadiene | 0.2219<br>0.1850 | 0.3054 | 0.2516 | 0.2338 | 0.2131 | Qua | 0.0723 | 0.2387 | -0.001 | | | | | | 1.0000 | | 0.9900 |
| Naphthalene | 1.2516<br>1.4993 | 1.6283 | 1.4608 | 1.5658 | 1.5517 | Ave | | 1.4929 | | | | 8.8 | | 15.0 | | | |
| 1,2,3-Trichlorobenzene | 0.5405<br>0.4855 | 0.7225 | 0.5820 | 0.5545 | 0.5093 | Ave | | 0.5657 | | | | 15.0 | | 15.0 | | | |
| Dibromofluoromethane (Surr) | 0.1931<br>0.2117 | 0.2068 | 0.2146 | 0.2053 | 0.2103 | Ave | | 0.2070 | | | | 3.7 | | 15.0 | | | |
| 1,2-Dichloroethane-d4 (Surr) | 0.3137<br>0.3343 | 0.3352 | 0.3410 | 0.3197 | 0.3360 | Ave | | 0.3300 | | | | 3.3 | | 15.0 | | | |
| Toluene-d8 (Surr) | 1.0911<br>1.3323 | 1.2520 | 1.2682 | 1.2712 | 1.3204 | Ave | | 1.2559 | | | | 6.9 | | 15.0 | | | |
| 4-Bromofluorobenzene (Surr) | 0.3844<br>0.4240 | 0.4153 | 0.4169 | 0.4253 | 0.4481 | Ave | | 0.4190 | | | | 4.9 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-14454-1 Analy Batch No.: 53056

SDG No.:

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/02/2012 16:00 Calibration End Date: 08/02/2012 17:47 Calibration ID: 10418

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD8260 240-53056/7 | UXX8053.D |
| Level 2 | STD8260 240-53056/6 | UXX8052.D |
| Level 3 | STD8260 240-53056/5 | UXX8051.D |
| Level 4 | STD8260 240-53056/4 | UXX8050.D |
| Level 5 | STD8260 240-53056/3 | UXX8049.D |
| Level 6 | STD8260 240-53056/2 | UXX8048.D |

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Dichlorodifluoromethane | FB | Ave | 36648<br>1653280 | 82112 | 202338 | 394991 | 801091 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Chloromethane | FB | Ave | 56813<br>2117018 | 119256 | 270809 | 531701 | 1093434 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Vinyl chloride | FB | Ave | 38179<br>1624405 | 86862 | 205434 | 421430 | 835031 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Bromomethane | FB | Ave | 16836<br>609226 | 38190 | 81345 | 168636 | 308581 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Chloroethane | FB | Ave | 23379<br>861674 | 52319 | 114490 | 236242 | 446466 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Trichlorofluoromethane | FB | Ave | 38241<br>1756710 | 92879 | 199245 | 432360 | 839879 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Acrolein | FB | Ave | 33027<br>1257287 | 62741 | 156252 | 338662 | 700620 | 10.0<br>400 | 20.0 | 50.0 | 100 | 200 |
| 1,1-Dichloroethene | FB | Ave | 30093<br>1190477 | 69657 | 145782 | 329282 | 683881 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Acetone | FB | Lin1 | 34718<br>764268 | 55675 | 97754 | 225128 | 408738 | 2.00<br>80.0 | 4.00 | 10.0 | 20.0 | 40.0 |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | FB | Ave | 22781<br>913741 | 51142 | 124093 | 241479 | 509808 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Iodomethane | FB | Ave | 48406<br>2018812 | 111175 | 242585 | 515105 | 1034574 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Carbon disulfide | FB | Ave | 113725<br>5181912 | 267890 | 565059 | 1257896 | 2591463 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Acetonitrile | FB | Lin1 | 38217<br>994943 | 64425 | 138155 | 303587 | 530727 | 10.0<br>400 | 20.0 | 50.0 | 100 | 200 |
| Methyl acetate | FB | Ave | 70470<br>2777251 | 144041 | 299653 | 687555 | 1403374 | 2.00<br>80.0 | 4.00 | 10.0 | 20.0 | 40.0 |
| Methylene Chloride | FB | Lin1 | 73634<br>1684975 | 126615 | 232260 | 451923 | 857897 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| tert-Butyl alcohol | FB | Ave | 51695<br>1515314 | 97736 | 194104 | 491956 | 910782 | 20.0<br>800 | 40.0 | 100 | 200 | 400 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-14454-1 Analy Batch No.: 53056

SDG No.:

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/02/2012 16:00 Calibration End Date: 08/02/2012 17:47 Calibration ID: 10418

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Acrylonitrile | FB | Ave | 29090<br>1243327 | 62712 | 137072 | 322856 | 603098 | 2.00<br>80.0 | 4.00 | 10.0 | 20.0 | 40.0 |
| Methyl tert-butyl ether | FB | Ave | 103129<br>4972911 | 247257 | 564579 | 1232500 | 2468454 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| trans-1,2-Dichloroethene | FB | Ave | 38444<br>1619002 | 84449 | 186567 | 405974 | 821625 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Hexane | FB | Ave | 8253<br>367220 | 16744 | 39198 | 84845 | 182747 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,1-Dichloroethane | FB | Ave | 69256<br>3114070 | 161359 | 348080 | 789522 | 1541698 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Vinyl acetate | FB | Lin1 | 3523<br>216826 | 9131 | 26061 | 51624 | 104880 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 2-Butanone | FB | Ave | 32646<br>1326636 | 71587 | 145076 | 344483 | 646586 | 2.00<br>80.0 | 4.00 | 10.0 | 20.0 | 40.0 |
| cis-1,2-Dichloroethene | FB | Ave | 35749<br>1718220 | 85745 | 199837 | 430326 | 865562 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 2,2-Dichloropropane | FB | Ave | 45306<br>1992362 | 102418 | 214008 | 499112 | 1003538 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Bromochloromethane | FB | Ave | 14919<br>752556 | 41630 | 88477 | 183897 | 364846 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Tetrahydrofuran | FB | Ave | 11426<br>452320 | 26063 | 60306 | 122687 | 242714 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Chloroform | FB | Ave | 71560<br>3044539 | 160844 | 355740 | 738893 | 1479854 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,1,1-Trichloroethane | FB | Ave | 54669<br>2594975 | 122166 | 276410 | 628702 | 1271821 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Cyclohexane | FB | Ave | 59789<br>3149210 | 150076 | 326264 | 755531 | 1561276 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,1-Dichloropropene | FB | Ave | 46874<br>2294383 | 109840 | 242184 | 547742 | 1104939 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Carbon tetrachloride | FB | Ave | 42914<br>2151215 | 98793 | 225556 | 512957 | 1051404 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,2-Dichloroethane | FB | Ave | 52639<br>2543005 | 124348 | 292105 | 615837 | 1226806 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Benzene | FB | Ave | 149112<br>6583562 | 318029 | 730955 | 1621336 | 3185439 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Trichloroethene | FB | Ave | 35615<br>1500192 | 75848 | 168640 | 362530 | 728473 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Methylcyclohexane | FB | Ave | 45031<br>2492666 | 115359 | 244670 | 577545 | 1199621 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,2-Dichloropropane | FB | Ave | 32993<br>1566255 | 77429 | 186481 | 387461 | 769626 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-14454-1 Analy Batch No.: 53056

SDG No.:

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/02/2012 16:00 Calibration End Date: 08/02/2012 17:47 Calibration ID: 10418

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Dibromomethane | FB | Ave | 19234<br>854829 | 42572 | 99696 | 213894 | 426150 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,4-Dioxane | FB | Qua | 7365<br>307637 | 15868 | 51744 | 121822 | 213129 | 50.0<br>2000 | 100 | 250 | 500 | 1000 |
| Bromodichloromethane | FB | Ave | 44750<br>2175362 | 100782 | 238641 | 514650 | 1043211 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 2-Chloroethyl vinyl ether | FB | Ave | 31976<br>1766623 | 74054 | 181021 | 418419 | 844500 | 2.00<br>80.0 | 4.00 | 10.0 | 20.0 | 40.0 |
| cis-1,3-Dichloropropene | FB | Ave | 44553<br>2469373 | 103006 | 262540 | 569412 | 1204398 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 4-Methyl-2-pentanone | FB | Ave | 63528<br>2881977 | 129725 | 325548 | 716965 | 1429020 | 2.00<br>80.0 | 4.00 | 10.0 | 20.0 | 40.0 |
| Toluene | CBZ | Ave | 128967<br>6543173 | 305603 | 730930 | 1556725 | 3138474 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| trans-1,3-Dichloropropene | CBZ | Ave | 40073<br>2225979 | 87474 | 228882 | 508429 | 1052778 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Ethyl methacrylate | CBZ | Lin1 | 24372<br>1838505 | 73795 | 189637 | 426606 | 873856 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,1,2-Trichloroethane | CBZ | Ave | 25193<br>1185141 | 55056 | 143579 | 291812 | 581626 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,3-Dichloropropane | CBZ | Ave | 45588<br>2211227 | 108804 | 256388 | 544697 | 1102449 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Tetrachloroethene | CBZ | Ave | 25977<br>1178862 | 56478 | 135234 | 292303 | 570466 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 2-Hexanone | CBZ | Ave | 37354<br>1754653 | 79149 | 191468 | 452274 | 872911 | 2.00<br>80.0 | 4.00 | 10.0 | 20.0 | 40.0 |
| Dibromochloromethane | CBZ | Ave | 26673<br>1326400 | 57404 | 150039 | 315464 | 641597 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,2-Dibromoethane | CBZ | Ave | 22441<br>1147280 | 51346 | 134296 | 282859 | 569732 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Chlorobenzene | CBZ | Ave | 79499<br>3736990 | 181361 | 424987 | 882253 | 1799083 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,1,1,2-Tetrachloroethane | CBZ | Ave | 27119<br>1340995 | 66702 | 154614 | 326247 | 655871 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Ethylbenzene | CBZ | Ave | 43621<br>2080040 | 97659 | 237296 | 504344 | 1018805 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| m-Xylene & p-Xylene | CBZ | Ave | 97543<br>5195309 | 242114 | 601343 | 1253245 | 2529217 | 2.00<br>80.0 | 4.00 | 10.0 | 20.0 | 40.0 |
| o-Xylene | CBZ | Ave | 48010<br>2425203 | 127417 | 293877 | 616715 | 1240162 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Styrene | CBZ | Ave | 70181<br>4026514 | 181498 | 453436 | 975969 | 2018012 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-14454-1 Analy Batch No.: 53056

SDG No.:

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/02/2012 16:00 Calibration End Date: 08/02/2012 17:47 Calibration ID: 10418

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Bromoform | CBZ | Ave | 13990<br>776089 | 34679 | 85383 | 186188 | 380429 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Isopropylbenzene | CBZ | Ave | 115613<br>6389292 | 307530 | 721633 | 1505638 | 3161003 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,1,2,2-Tetrachloroethane | DCB | Ave | 32171<br>1333334 | 76330 | 182615 | 361940 | 711528 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Bromobenzene | DCB | Ave | 32206<br>1363666 | 73180 | 167944 | 342364 | 696131 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,2,3-Trichloropropane | DCB | Ave | 10354<br>461076 | 24052 | 62437 | 117888 | 239718 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| trans-1,4-Dichloro-2-butene | DCB | Lin1 | 8649<br>495652 | 21492 | 54076 | 110757 | 243670 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| n-Propylbenzene | DCB | Ave | 30418<br>1474869 | 73192 | 180692 | 360322 | 754687 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 2-Chlorotoluene | DCB | Ave | 27452<br>1249100 | 70414 | 162766 | 322646 | 644459 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,3,5-Trimethylbenzene | DCB | Ave | 89492<br>4681332 | 253396 | 584269 | 1168726 | 2455479 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 4-Chlorotoluene | DCB | Ave | 29142<br>1300229 | 71693 | 168211 | 326450 | 670315 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| tert-Butylbenzene | DCB | Ave | 72470<br>4152770 | 218556 | 466117 | 1048816 | 1934729 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,2,4-Trimethylbenzene | DCB | Ave | 95262<br>4646841 | 263882 | 604624 | 1152764 | 2435525 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| sec-Butylbenzene | DCB | Ave | 95984<br>4870166 | 267416 | 622162 | 1214883 | 2559739 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,3-Dichlorobenzene | DCB | Ave | 58042<br>2409218 | 145921 | 320675 | 618926 | 1255581 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| p-Isopropyltoluene | DCB | Ave | 79060<br>4014980 | 233123 | 520316 | 1011484 | 2086427 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,4-Dichlorobenzene | DCB | Ave | 58559<br>2523946 | 151592 | 332611 | 626599 | 1297515 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| n-Butylbenzene | DCB | Ave | 68558<br>3385873 | 194398 | 427139 | 828069 | 1735672 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,2-Dichlorobenzene | DCB | Ave | 59744<br>2212839 | 153202 | 314536 | 590302 | 1195176 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,2-Dibromo-3-Chloropropane | DCB | Ave | 5477<br>219529 | 14502 | 30567 | 57751 | 113957 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,3,5-Trichlorobenzene | DCB | Ave | 34776<br>1286385 | 100049 | 184694 | 356897 | 693924 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,2,4-Trichlorobenzene | DCB | Ave | 29721<br>1169337 | 90878 | 157613 | 311126 | 600252 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-14454-1 Analy Batch No.: 53056

SDG No.:

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/02/2012 16:00 Calibration End Date: 08/02/2012 17:47 Calibration ID: 10418

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Hexachlorobutadiene | DCB | Qua | 11083<br>354925 | 35154 | 63574 | 116361 | 206484 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Naphthalene | DCB | Ave | 62524<br>2875900 | 187398 | 369118 | 779181 | 1503772 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,2,3-Trichlorobenzene | DCB | Ave | 27003<br>931293 | 83153 | 147067 | 275948 | 493610 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Dibromofluoromethane (Surr) | FB | Ave | 30289<br>1388080 | 68386 | 157299 | 342454 | 658998 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 1,2-Dichloroethane-d4 (Surr) | FB | Ave | 49203<br>2191903 | 110845 | 249943 | 533329 | 1052973 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Toluene-d8 (Surr) | CBZ | Ave | 103983<br>5559940 | 258978 | 618068 | 1295041 | 2584431 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 4-Bromofluorobenzene (Surr) | CBZ | Ave | 36633<br>1769259 | 85909 | 203188 | 433299 | 877176 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Qua = Quadratic ISTD

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-14454-1 Analy Batch No.: 53056

SDG No.:

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/02/2012 18:08 Calibration End Date: 08/02/2012 19:56 Calibration ID: 10420

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STDA9 240-53056/13 | UXX8059.D |
| Level 2 | STDA9 240-53056/12 | UXX8058.D |
| Level 3 | STDA9 240-53056/11 | UXX8057.D |
| Level 4 | STDA9 240-53056/10 | UXX8056.D |
| Level 5 | STDA9 240-53056/9 | UXX8055.D |
| Level 6 | STDA9 240-53056/8 | UXX8054.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Dichlorofluoromethane | 0.4043<br>0.3698 | 0.3660 | 0.3980 | 0.3859 | 0.3995 | Ave | | 0.3872 | | | | 4.2 | | 15.0 | | | |
| Ethyl ether | 0.2168<br>0.1880 | 0.1923 | 0.1913 | 0.1931 | 0.1955 | Ave | | 0.1962 | | | | 5.3 | | 15.0 | | | |
| 3-Chloro-1-propene | 0.1305<br>0.1454 | 0.1317 | 0.1358 | 0.1431 | 0.1501 | Ave | | 0.1394 | | | | 5.7 | | 15.0 | | | |
| Diisopropyl ether | 0.2145<br>0.2350 | 0.2089 | 0.2195 | 0.2304 | 0.2380 | Ave | | 0.2244 | | | | 5.3 | | 15.0 | | | |
| 2-Chloro-1,3-butadiene | 0.4529<br>0.4855 | 0.4515 | 0.4553 | 0.4758 | 0.4998 | Ave | | 0.4701 | | | | 4.3 | | 15.0 | | | |
| Ethyl-t-butyl ether (ETBE) | 0.7313<br>0.8574 | 0.7365 | 0.7570 | 0.8055 | 0.8575 | Ave | | 0.7909 | | | | 7.3 | | 15.0 | | | |
| Propionitrile | 0.0285<br>0.0290 | 0.0333 | 0.0283 | 0.0305 | 0.0312 | Ave | | 0.0301 | | | | 6.5 | | 15.0 | | | |
| Ethyl acetate | 0.2002<br>0.2151 | 0.1909 | 0.1849 | 0.2086 | 0.2225 | Ave | | 0.2037 | | | | 7.1 | | 15.0 | | | |
| Methacrylonitrile | 0.1569<br>0.1594 | 0.1480 | 0.1574 | 0.1551 | 0.1594 | Ave | | 0.1560 | | | | 2.7 | | 15.0 | | | |
| Isobutyl alcohol | 0.0100<br>0.0092 | 0.0098 | 0.0106 | 0.0107 | 0.0108 | Ave | | 0.0102 | | | | 6.2 | | 15.0 | | | |
| Tert-amyl-methyl ether (TAME) | 0.5823<br>0.6996 | 0.5877 | 0.6087 | 0.6618 | 0.7122 | Ave | | 0.6421 | | | | 8.9 | | 15.0 | | | |
| n-Heptane | 0.0319<br>0.0411 | 0.0302 | 0.0390 | 0.0403 | 0.0415 | Ave | | 0.0373 | | | | 13.0 | | 15.0 | | | |
| n-Butanol | 0.0060<br>0.0065 | 0.0072 | 0.0068 | 0.0074 | 0.0083 | Ave | | 0.0070 | | | | 11.0 | | 15.0 | | | |
| Methyl methacrylate | 0.1697<br>0.2031 | 0.1867 | 0.1697 | 0.1834 | 0.2089 | Ave | | 0.1869 | | | | 8.8 | | 15.0 | | | |
| 2-Nitropropane | 0.0477<br>0.0603 | 0.0446 | 0.0487 | 0.0536 | 0.0579 | Ave | | 0.0521 | | | | 12.0 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-14454-1 Analy Batch No.: 53056

SDG No.:

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/02/2012 18:08 Calibration End Date: 08/02/2012 19:56 Calibration ID: 10420

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Cyclohexanone | 0.0226<br>0.0171 | 0.0241 | 0.0204 | 0.0221 | 0.0204 | Ave | | 0.0211 | | | | 11.0 | | 15.0 | | | |
| 1,2,3-Trimethylbenzene | 2.1656<br>2.5910 | 2.3156 | 2.3171 | 2.4949 | 2.6575 | Ave | | 2.4236 | | | | 7.8 | | 15.0 | | | |
| 2-Methylnaphthalene | 0.5946<br>0.6554 | 0.6330 | 0.6199 | 0.7442 | 0.7584 | Ave | | 0.6676 | | | | 10.0 | | 15.0 | | | |
| n-Butyl acetate | 0.1479<br>0.2038 | 0.1491 | 0.1586 | 0.1829 | 0.2028 | Ave | | 0.1742 | | | | 15.0 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-14454-1 Analy Batch No.: 53056

SDG No.:

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/02/2012 18:08 Calibration End Date: 08/02/2012 19:56 Calibration ID: 10420

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STDA9 240-53056/13 | UXX8059.D |
| Level 2 | STDA9 240-53056/12 | UXX8058.D |
| Level 3 | STDA9 240-53056/11 | UXX8057.D |
| Level 4 | STDA9 240-53056/10 | UXX8056.D |
| Level 5 | STDA9 240-53056/9 | UXX8055.D |
| Level 6 | STDA9 240-53056/8 | UXX8054.D |

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Dichlorofluoromethane | FB | Ave | 64052<br>2476514 | 122785 | 311631 | 637383 | 1225790 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Ethyl ether | FB | Ave | 34341<br>1259371 | 64509 | 149792 | 318926 | 599911 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 3-Chloro-1-propene | FB | Ave | 20675<br>974037 | 44194 | 106343 | 236367 | 460511 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Diisopropyl ether | FB | Ave | 169889<br>7871066 | 350425 | 859515 | 1902220 | 3650702 | 5.00<br>200 | 10.0 | 25.0 | 50.0 | 100 |
| 2-Chloro-1,3-butadiene | FB | Ave | 71756<br>3251525 | 151485 | 356547 | 785735 | 1533552 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Ethyl-t-butyl ether (ETBE) | FB | Ave | 115853<br>5742201 | 247100 | 592775 | 1330328 | 2631266 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Propionitrile | FB | Ave | 9025<br>388224 | 22373 | 44268 | 100682 | 191276 | 2.00<br>80.0 | 4.00 | 10.0 | 20.0 | 40.0 |
| Ethyl acetate | FB | Ave | 63439<br>2881757 | 128088 | 289609 | 688935 | 1365220 | 2.00<br>80.0 | 4.00 | 10.0 | 20.0 | 40.0 |
| Methacrylonitrile | FB | Ave | 24862<br>1067446 | 49649 | 123217 | 256104 | 489210 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| Isobutyl alcohol | CBZ | Ave | 19218<br>753186 | 39518 | 98900 | 212961 | 418278 | 20.0<br>800 | 40.0 | 100 | 200 | 400 |
| Tert-amyl-methyl ether (TAME) | FB | Ave | 92252<br>4685814 | 197182 | 476612 | 1093065 | 2185259 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| n-Heptane | FB | Ave | 5060<br>275160 | 10130 | 30512 | 66565 | 127489 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| n-Butanol | CBZ | Ave | 11590<br>533325 | 28952 | 63842 | 147249 | 320038 | 20.0<br>800 | 40.0 | 100 | 200 | 400 |
| Methyl methacrylate | FB | Ave | 26880<br>1360346 | 62624 | 132862 | 302885 | 641102 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 2-Nitropropane | FB | Ave | 15106<br>807711 | 29953 | 76339 | 176888 | 355483 | 2.00<br>80.0 | 4.00 | 10.0 | 20.0 | 40.0 |
| Cyclohexanone | DCB | Ave | 11352<br>377778 | 24619 | 54208 | 117501 | 222668 | 10.0<br>400 | 20.0 | 50.0 | 100 | 200 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-14454-1 Analy Batch No.: 53056

SDG No.:

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/02/2012 18:08 Calibration End Date: 08/02/2012 19:56 Calibration ID: 10420

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| 1,2,3-Trimethylbenzene | DCB | Ave | 108981<br>5728141 | 236414 | 616641 | 1326448 | 2897741 | 1.00<br>40.0 | 2.00 | 5.00 | 10.0 | 20.0 |
| 2-Methylnaphthalene | DCB | Ave | 59849<br>2897848 | 129250 | 329960 | 791300 | 1653809 | 2.00<br>80.0 | 4.00 | 10.0 | 20.0 | 40.0 |
| n-Butyl acetate | CBZ | Ave | 28471<br>1666532 | 60051 | 148158 | 363089 | 782444 | 2.00<br>80.0 | 4.00 | 10.0 | 20.0 | 40.0 |

Curve Type Legend:
Ave = Average ISTD

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-14454-1

SDG No.:

Lab Sample ID: ICV 240-53056/14  Calibration Date: 08/02/2012 20:17

Instrument ID: A3UX10  Calib Start Date: 08/02/2012 16:00

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 08/02/2012 17:47

Lab File ID: UXX8060.D  Conc. Units: ug/L  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | Ave | 0.2504 | 0.2485 | | 9.92 | 10.0 | -0.8 | 50.0 |
| Chloromethane | Ave | 0.3471 | 0.3502 | 0.1000 | 10.1 | 10.0 | 0.9 | 50.0 |
| Vinyl chloride | Ave | 0.2589 | 0.2597 | | 10.0 | 10.0 | 0.3 | 20.0 |
| Bromomethane | Ave | 0.1044 | 0.1043 | | 9.99 | 10.0 | -0.0 | 50.0 |
| Chloroethane | Ave | 0.1465 | 0.1436 | | 9.80 | 10.0 | -2.0 | 50.0 |
| Trichlorofluoromethane | Ave | 0.2653 | 0.2925 | | 11.0 | 10.0 | 10.2 | 50.0 |
| Acrolein | Ave | 0.0205 | 0.0292 | | 42.6 | 30.0 | 42.1 | 50.0 |
| 1,1-Dichloroethene | Ave | 0.1998 | 0.2123 | | 10.6 | 10.0 | 6.3 | 20.0 |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | Ave | 0.1527 | 0.1543 | | 10.1 | 10.0 | 1.1 | 50.0 |
| Acetone | Lin1 | | 0.0694 | | 21.7 | 20.0 | 8.7 | 50.0 |
| Iodomethane | Ave | 0.3204 | 0.3379 | | 10.5 | 10.0 | 5.4 | 50.0 |
| Carbon disulfide | Ave | 0.7796 | 0.7767 | | 9.96 | 10.0 | -0.4 | 50.0 |
| Acetonitrile | Lin1 | | 0.0185 | | 29.0 | 30.0 | -3.4 | 50.0 |
| Methyl acetate | Ave | 0.2148 | 0.2100 | | 9.78 | 10.0 | -2.2 | 50.0 |
| Methylene Chloride | Lin1 | | 0.2800 | | 10.1 | 10.0 | 0.6 | 50.0 |
| tert-Butyl alcohol | Ave | 0.0142 | 0.0131 | | 184 | 200 | -7.9 | 50.0 |
| Acrylonitrile | Ave | 0.0948 | 0.0908 | | 28.7 | 30.0 | -4.2 | 50.0 |
| Methyl tert-butyl ether | Ave | 0.7434 | 0.7424 | | 9.99 | 10.0 | -0.1 | 50.0 |
| trans-1,2-Dichloroethene | Ave | 0.2513 | 0.2541 | | 10.1 | 10.0 | 1.1 | 50.0 |
| Hexane | Ave | 0.0537 | 0.0566 | | 10.5 | 10.0 | 5.4 | 20.0 |
| 1,1-Dichloroethane | Ave | 0.4741 | 0.4875 | 0.1000 | 10.3 | 10.0 | 2.8 | 50.0 |
| Vinyl acetate | Lin1 | | 0.0320 | | 9.83 | 10.0 | -1.7 | 50.0 |
| 2-Butanone | Ave | 0.1031 | 0.0997 | | 19.3 | 20.0 | -3.3 | 50.0 |
| cis-1,2-Dichloroethene | Ave | 0.2594 | 0.2575 | | 9.93 | 10.0 | -0.7 | 50.0 |
| 2,2-Dichloropropane | Ave | 0.3023 | 0.2833 | | 9.37 | 10.0 | -6.3 | 50.0 |
| Bromochloromethane | Ave | 0.1139 | 0.1115 | | 9.79 | 10.0 | -2.1 | 50.0 |
| Tetrahydrofuran | Ave | 0.0757 | 0.0671 | | 8.87 | 10.0 | -11.3 | 50.0 |
| Chloroform | Ave | 0.4679 | 0.4392 | | 9.39 | 10.0 | -6.1 | 20.0 |
| 1,1,1-Trichloroethane | Ave | 0.3789 | 0.3762 | | 9.93 | 10.0 | -0.7 | 50.0 |
| Cyclohexane | Ave | 0.4519 | 0.4354 | | 9.63 | 10.0 | -3.7 | 50.0 |
| 1,1-Dichloropropene | Ave | 0.3321 | 0.3292 | | 9.91 | 10.0 | -0.9 | 50.0 |
| Carbon tetrachloride | Ave | 0.3085 | 0.3087 | | 10.0 | 10.0 | 0.0 | 50.0 |
| 1,2-Dichloroethane | Ave | 0.3765 | 0.3740 | | 9.94 | 10.0 | -0.6 | 50.0 |
| Benzene | Ave | 0.9837 | 0.9742 | | 9.90 | 10.0 | -1.0 | 50.0 |
| Trichloroethene | Ave | 0.2275 | 0.2219 | | 9.75 | 10.0 | -2.5 | 50.0 |
| Methylcyclohexane | Ave | 0.3465 | 0.3357 | | 9.69 | 10.0 | -3.1 | 50.0 |
| 1,2-Dichloropropane | Ave | 0.2359 | 0.2367 | | 10.0 | 10.0 | 0.3 | 20.0 |
| Dibromomethane | Ave | 0.1303 | 0.1301 | | 9.98 | 10.0 | -0.2 | 50.0 |
| Bromodichloromethane | Ave | 0.3148 | 0.3056 | | 9.71 | 10.0 | -2.9 | 50.0 |
| 2-Chloroethyl vinyl ether | Ave | 0.1220 | 0.1149 | | 9.42 | 10.0 | -5.8 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-14454-1

SDG No.:

Lab Sample ID: ICV 240-53056/14  Calibration Date: 08/02/2012 20:17

Instrument ID: A3UX10  Calib Start Date: 08/02/2012 16:00

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 08/02/2012 17:47

Lab File ID: UXX8060.D  Conc. Units: ug/L  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | Ave | 0.3427 | 0.3208 | | 9.36 | 10.0 | -6.4 | 50.0 |
| 4-Methyl-2-pentanone | Ave | 0.2139 | 0.2113 | | 19.8 | 20.0 | -1.2 | 50.0 |
| Toluene | Ave | 1.505 | 1.478 | | 9.82 | 10.0 | -1.8 | 20.0 |
| trans-1,3-Dichloropropene | Ave | 0.4806 | 0.4390 | | 9.14 | 10.0 | -8.6 | 50.0 |
| 1,1,2-Trichloroethane | Ave | 0.2821 | 0.2936 | | 10.4 | 10.0 | 4.1 | 50.0 |
| 1,3-Dichloropropane | Ave | 0.5264 | 0.5277 | | 10.0 | 10.0 | 0.2 | 50.0 |
| Tetrachloroethene | Ave | 0.2807 | 0.2739 | | 9.76 | 10.0 | -2.4 | 50.0 |
| 2-Hexanone | Ave | 0.2065 | 0.2050 | | 19.9 | 20.0 | -0.7 | 50.0 |
| Dibromochloromethane | Ave | 0.3034 | 0.2875 | | 9.47 | 10.0 | -5.3 | 50.0 |
| 1,2-Dibromoethane | Ave | 0.2672 | 0.2659 | | 9.95 | 10.0 | -0.5 | 50.0 |
| Chlorobenzene | Ave | 0.8773 | 0.8640 | 0.3000 | 9.85 | 10.0 | -1.5 | 50.0 |
| 1,1,1,2-Tetrachloroethane | Ave | 0.3168 | 0.3193 | | 10.1 | 10.0 | 0.8 | 50.0 |
| Ethylbenzene | Ave | 0.4885 | 0.4783 | | 9.79 | 10.0 | -2.1 | 20.0 |
| m-Xylene & p-Xylene | Ave | 0.5996 | 0.6053 | | 20.2 | 20.0 | 1.0 | 50.0 |
| o-Xylene | Ave | 0.5905 | 0.6024 | | 10.2 | 10.0 | 2.0 | 50.0 |
| Styrene | Ave | 0.9164 | 0.9760 | | 10.7 | 10.0 | 6.5 | 50.0 |
| Bromoform | Ave | 0.1755 | 0.1793 | 0.1000 | 10.2 | 10.0 | 2.2 | 50.0 |
| Isopropylbenzene | Ave | 1.467 | 1.505 | | 10.3 | 10.0 | 2.6 | 50.0 |
| 1,1,2,2-Tetrachloroethane | Ave | 0.6978 | 0.6441 | 0.3000 | 9.23 | 10.0 | -7.7 | 50.0 |
| Bromobenzene | Ave | 0.6771 | 0.6276 | | 9.27 | 10.0 | -7.3 | 50.0 |
| 1,2,3-Trichloropropane | Ave | 0.2313 | 0.2241 | | 9.69 | 10.0 | -3.1 | 50.0 |
| trans-1,4-Dichloro-2-butene | Lin1 | | 0.1910 | | 15.4 | 20.0 | -22.9 | 50.0 |
| n-Propylbenzene | Ave | 0.7053 | 0.7184 | | 10.2 | 10.0 | 1.9 | 50.0 |
| 2-Chlorotoluene | Ave | 0.6283 | 0.6083 | | 9.68 | 10.0 | -3.2 | 50.0 |
| 1,3,5-Trimethylbenzene | Ave | 2.271 | 2.236 | | 9.84 | 10.0 | -1.6 | 50.0 |
| 4-Chlorotoluene | Ave | 0.6496 | 0.6079 | | 9.36 | 10.0 | -6.4 | 50.0 |
| tert-Butylbenzene | Ave | 1.911 | 1.767 | | 9.25 | 10.0 | -7.5 | 50.0 |
| 1,2,4-Trimethylbenzene | Ave | 2.307 | 2.330 | | 10.1 | 10.0 | 1.0 | 50.0 |
| sec-Butylbenzene | Ave | 2.388 | 2.358 | | 9.87 | 10.0 | -1.3 | 50.0 |
| 1,3-Dichlorobenzene | Ave | 1.249 | 1.199 | | 9.60 | 10.0 | -4.0 | 50.0 |
| p-Isopropyltoluene | Ave | 1.991 | 2.072 | | 10.4 | 10.0 | 4.1 | 50.0 |
| 1,4-Dichlorobenzene | Ave | 1.287 | 1.252 | | 9.73 | 10.0 | -2.7 | 50.0 |
| n-Butylbenzene | Ave | 1.662 | 1.678 | | 10.1 | 10.0 | 1.0 | 50.0 |
| 1,2-Dichlorobenzene | Ave | 1.224 | 1.191 | | 9.73 | 10.0 | -2.7 | 50.0 |
| 1,2-Dibromo-3-Chloropropane | Ave | 0.1175 | 0.1115 | | 9.50 | 10.0 | -5.0 | 50.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.6438 | 0.6003 | | 9.33 | 10.0 | -6.7 | 50.0 |
| Hexachlorobutadiene | Qua | | 0.2036 | | 8.66 | 10.0 | -13.4 | 50.0 |
| Naphthalene | Ave | 1.493 | 1.416 | | 9.49 | 10.0 | -5.1 | 50.0 |
| 1,2,3-Trichlorobenzene | Ave | 0.5657 | 0.5341 | | 9.44 | 10.0 | -5.6 | 50.0 |
| Dibromofluoromethane (Surr) | Ave | 0.2070 | 0.1902 | | 11.1 | 12.0 | -8.1 | 50.0 |
| 1,2-Dichloroethane-d4 (Surr) | Ave | 0.3300 | 0.2983 | | 10.9 | 12.0 | -9.6 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-14454-1

SDG No.:

Lab Sample ID: ICV 240-53056/14  Calibration Date: 08/02/2012 20:17

Instrument ID: A3UX10  Calib Start Date: 08/02/2012 16:00

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 08/02/2012 17:47

Lab File ID: UXX8060.D  Conc. Units: ug/L  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Toluene-d8 (Surr) | Ave | 1.256 | 1.209 | | 11.6 | 12.0 | -3.7 | 50.0 |
| 4-Bromofluorobenzene (Surr) | Ave | 0.4190 | 0.4234 | | 12.2 | 12.0 | 1.0 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Lab Sample ID: ICV 240-53056/14 Calibration Date: 08/02/2012 20:17

Instrument ID: A3UX10 Calib Start Date: 08/02/2012 18:08

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 08/02/2012 19:56

Lab File ID: UXX8060.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Ethyl ether | Ave | 0.1962 | 0.1935 | | 9.87 | 10.0 | -1.3 | 50.0 |
| Diisopropyl ether | Ave | 0.2244 | 0.2218 | | 9.89 | 10.0 | -1.1 | 50.0 |
| Isobutyl alcohol | Ave | 0.0102 | 0.0099 | | 483 | 500 | -3.4 | 50.0 |
| Cyclohexanone | Ave | 0.0211 | 0.0107 | | 102 | 200 | -49.2 | 50.0 |
| 1,2,3-Trimethylbenzene | Ave | 2.424 | 2.402 | | 9.91 | 10.0 | -0.9 | 50.0 |

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Instrument ID: A3UX10 Start Date: 09/04/2012 10:16

Analysis Batch Number: 56575 End Date: 09/04/2012 20:57

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| BFB 240-56575/1 | | 09/04/2012 10:16 | 1 | BFB4918.D | DB-624 0.18(mm) |
| CCVIS 240-56575/2 | | 09/04/2012 10:42 | 1 | UXX8665.D | DB-624 0.18(mm) |
| CCV 240-56575/3 | | 09/04/2012 11:04 | 1 | UXX8666.D | DB-624 0.18(mm) |
| LCS 240-56575/4 | | 09/04/2012 11:26 | 1 | UXX8667.D | DB-624 0.18(mm) |
| MB 240-56575/5 | | 09/04/2012 11:48 | 1 | UXX8668.D | DB-624 0.18(mm) |
| ZZZZZ | | 09/04/2012 12:19 | 3.333 | | DB-624 0.18(mm) |
| ZZZZZ | | 09/04/2012 12:40 | 3.333 | | DB-624 0.18(mm) |
| ZZZZZ | | 09/04/2012 13:02 | 1 | | DB-624 0.18(mm) |
| ZZZZZ | | 09/04/2012 13:23 | 1 | | DB-624 0.18(mm) |
| ZZZZZ | | 09/04/2012 13:44 | 1 | | DB-624 0.18(mm) |
| ZZZZZ | | 09/04/2012 14:06 | 1 | | DB-624 0.18(mm) |
| 240-14427-E-1 MS | | 09/04/2012 14:27 | 3.333 | UXX8675.D | DB-624 0.18(mm) |
| 240-14427-E-1 MSD | | 09/04/2012 14:49 | 3.333 | UXX8676.D | DB-624 0.18(mm) |
| ZZZZZ | | 09/04/2012 15:10 | 1 | | DB-624 0.18(mm) |
| ZZZZZ | | 09/04/2012 15:32 | 1 | | DB-624 0.18(mm) |
| 240-14454-1 | TB-082212 | 09/04/2012 15:54 | 1 | UXX8679.D | DB-624 0.18(mm) |
| 240-14454-2 | MT-MW07S-082212 | 09/04/2012 16:15 | 1 | UXX8680.D | DB-624 0.18(mm) |
| 240-14454-3 | MT-MW08S-082212 | 09/04/2012 16:37 | 1 | UXX8681.D | DB-624 0.18(mm) |
| 240-14454-4 | MT-MW10S-082212 | 09/04/2012 16:59 | 1 | UXX8682.D | DB-624 0.18(mm) |
| ZZZZZ | | 09/04/2012 17:20 | 1 | | DB-624 0.18(mm) |
| ZZZZZ | | 09/04/2012 17:42 | 1 | | DB-624 0.18(mm) |
| ZZZZZ | | 09/04/2012 18:04 | 5 | | DB-624 0.18(mm) |
| ZZZZZ | | 09/04/2012 18:25 | 1 | | DB-624 0.18(mm) |
| ZZZZZ | | 09/04/2012 18:47 | 1 | | DB-624 0.18(mm) |
| ZZZZZ | | 09/04/2012 19:08 | 2.5 | | DB-624 0.18(mm) |
| ZZZZZ | | 09/04/2012 19:30 | 2.5 | | DB-624 0.18(mm) |
| ZZZZZ | | 09/04/2012 19:52 | 1 | | DB-624 0.18(mm) |
| ZZZZZ | | 09/04/2012 20:14 | 1 | | DB-624 0.18(mm) |
| ZZZZZ | | 09/04/2012 20:36 | 1 | | DB-624 0.18(mm) |
| ZZZZZ | | 09/04/2012 20:57 | 1 | | DB-624 0.18(mm) |

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton  Job No.: 240-14454-1

SDG No.:

Lab File ID: BFB4918.D  BFB Injection Date: 09/04/2012

Instrument ID: A3UX10  BFB Injection Time: 10:16

Analysis Batch No.: 56575

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 50 | 15.0 - 40.0 % of mass 95 | 15.9 | |
| 75 | 30.0 - 60.0 % of mass 95 | 46.2 | |
| 95 | Base Peak, 100% relative abundance | 100.0 | |
| 96 | 5.0 - 9.0 % of mass 95 | 6.4 | |
| 173 | Less than 2.0 % of mass 174 | 0.0 | (0.0)1 |
| 174 | 50.0 - 120.00 % of mass 95 | 91.8 | |
| 175 | 5.0 - 9.0 % of mass 174 | 6.1 | (6.6)1 |
| 176 | 95.0 - 101.0 % of mass 174 | 87.9 | (95.7)1 |
| 177 | 5.0 - 9.0 % of mass 176 | 5.4 | (6.2)2 |

1-Value is % mass 174  2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | CCVIS 240-56575/2 | UXX8665.D | 09/04/2012 | 10:42 |
| | CCV 240-56575/3 | UXX8666.D | 09/04/2012 | 11:04 |
| | LCS 240-56575/4 | UXX8667.D | 09/04/2012 | 11:26 |
| | MB 240-56575/5 | UXX8668.D | 09/04/2012 | 11:48 |
| | 240-14427-E-1 MS | UXX8675.D | 09/04/2012 | 14:27 |
| | 240-14427-E-1 MSD | UXX8676.D | 09/04/2012 | 14:49 |
| TB-082212 | 240-14454-1 | UXX8679.D | 09/04/2012 | 15:54 |
| MT-MW07S-082212 | 240-14454-2 | UXX8680.D | 09/04/2012 | 16:15 |
| MT-MW08S-082212 | 240-14454-3 | UXX8681.D | 09/04/2012 | 16:37 |
| MT-MW10S-082212 | 240-14454-4 | UXX8682.D | 09/04/2012 | 16:59 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-14454-1

SDG No.:

Lab Sample ID: CCVIS 240-56575/2  Calibration Date: 09/04/2012 10:42

Instrument ID: A3UX10  Calib Start Date: 08/02/2012 16:00

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 08/02/2012 17:47

Lab File ID: UXX8665.D  Conc. Units: ug/L  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | Ave | 0.2504 | 0.2063 | | 8.24 | 10.0 | -17.6 | 50.0 |
| Chloromethane | Ave | 0.3471 | 0.2817 | 0.1000 | 8.11 | 10.0 | -18.9 | 50.0 |
| Vinyl chloride | Ave | 0.2589 | 0.2546 | | 9.84 | 10.0 | -1.6 | 20.0 |
| Bromomethane | Ave | 0.1044 | 0.1180 | | 11.3 | 10.0 | 13.1 | 50.0 |
| Chloroethane | Ave | 0.1465 | 0.1375 | | 9.38 | 10.0 | -6.2 | 50.0 |
| Trichlorofluoromethane | Ave | 0.2653 | 0.2601 | | 9.80 | 10.0 | -2.0 | 50.0 |
| Acrolein | Ave | 0.0205 | 0.0228 | | 111 | 100 | 11.2 | 50.0 |
| 1,1-Dichloroethene | Ave | 0.1998 | 0.2085 | | 10.4 | 10.0 | 4.4 | 20.0 |
| Acetone | Lin1 | | 0.0574 | | 17.7 | 20.0 | -11.6 | 50.0 |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | Ave | 0.1527 | 0.1844 | | 12.1 | 10.0 | 20.8 | 50.0 |
| Iodomethane | Ave | 0.3204 | 0.3559 | | 11.1 | 10.0 | 11.1 | 50.0 |
| Carbon disulfide | Ave | 0.7796 | 0.7232 | | 9.28 | 10.0 | -7.2 | 50.0 |
| Acetonitrile | Lin1 | | 0.0161 | | 96.3 | 100 | -3.7 | 50.0 |
| Methyl acetate | Ave | 0.2148 | 0.1520 | | 14.2 | 20.0 | -29.2 | 50.0 |
| Methylene Chloride | Lin1 | | 0.2455 | | 8.71 | 10.0 | -12.9 | 50.0 |
| tert-Butyl alcohol | Ave | 0.0142 | 0.0120 | | 169 | 200 | -15.7 | 50.0 |
| Acrylonitrile | Ave | 0.0948 | 0.0776 | | 16.4 | 20.0 | -18.2 | 50.0 |
| Methyl tert-butyl ether | Ave | 0.7434 | 0.6461 | | 8.69 | 10.0 | -13.1 | 50.0 |
| trans-1,2-Dichloroethene | Ave | 0.2513 | 0.2387 | | 9.50 | 10.0 | -5.0 | 50.0 |
| Hexane | Ave | 0.0537 | 0.0501 | | 9.33 | 10.0 | -6.7 | 20.0 |
| 1,1-Dichloroethane | Ave | 0.4741 | 0.3990 | 0.1000 | 8.42 | 10.0 | -15.8 | 50.0 |
| Vinyl acetate | Lin1 | | 0.036 | | 11.2 | 10.0 | 12.1 | 50.0 |
| 2-Butanone | Ave | 0.1031 | 0.0754 | | 14.6 | 20.0 | -26.9 | 50.0 |
| cis-1,2-Dichloroethene | Ave | 0.2594 | 0.2494 | | 9.62 | 10.0 | -3.8 | 50.0 |
| 2,2-Dichloropropane | Ave | 0.3023 | 0.2813 | | 9.30 | 10.0 | -7.0 | 50.0 |
| Bromochloromethane | Ave | 0.1139 | 0.1256 | | 11.0 | 10.0 | 10.3 | 50.0 |
| Tetrahydrofuran | Ave | 0.0757 | 0.0486 | | 6.43 | 10.0 | -35.7 | 50.0 |
| Chloroform | Ave | 0.4679 | 0.3989 | | 8.53 | 10.0 | -14.7 | 20.0 |
| 1,1,1-Trichloroethane | Ave | 0.3789 | 0.3386 | | 8.94 | 10.0 | -10.6 | 50.0 |
| Cyclohexane | Ave | 0.4519 | 0.3613 | | 8.00 | 10.0 | -20.0 | 50.0 |
| 1,1-Dichloropropene | Ave | 0.3321 | 0.2995 | | 9.02 | 10.0 | -9.8 | 50.0 |
| Carbon tetrachloride | Ave | 0.3085 | 0.3044 | | 9.87 | 10.0 | -1.3 | 50.0 |
| 1,2-Dichloroethane | Ave | 0.3765 | 0.2891 | | 7.68 | 10.0 | -23.2 | 50.0 |
| Benzene | Ave | 0.9837 | 0.8956 | | 9.10 | 10.0 | -9.0 | 50.0 |
| Trichloroethene | Ave | 0.2275 | 0.2360 | | 10.4 | 10.0 | 3.7 | 50.0 |
| 1,2-Dichloropropane | Ave | 0.2359 | 0.1958 | | 8.30 | 10.0 | -17.0 | 20.0 |
| Methylcyclohexane | Ave | 0.3465 | 0.3344 | | 9.65 | 10.0 | -3.5 | 50.0 |
| 1,4-Dioxane | Qua | | 0.0013 | | 418 | 500 | -16.4 | 50.0 |
| Dibromomethane | Ave | 0.1303 | 0.1182 | | 9.07 | 10.0 | -9.3 | 50.0 |
| Bromodichloromethane | Ave | 0.3148 | 0.2671 | | 8.48 | 10.0 | -15.2 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-14454-1

SDG No.:

Lab Sample ID: CCVIS 240-56575/2  Calibration Date: 09/04/2012 10:42

Instrument ID: A3UX10  Calib Start Date: 08/02/2012 16:00

GC Column: DB-624  ID: 0.18(mm)  Calib End Date: 08/02/2012 17:47

Lab File ID: UXX8665.D  Conc. Units: ug/L  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 2-Chloroethyl vinyl ether | Ave | 0.1220 | 0.1015 | | 16.6 | 20.0 | -16.8 | 50.0 |
| cis-1,3-Dichloropropene | Ave | 0.3427 | 0.3046 | | 8.89 | 10.0 | -11.1 | 50.0 |
| 4-Methyl-2-pentanone | Ave | 0.2139 | 0.1506 | | 14.1 | 20.0 | (-29.6) | 50.0 |
| Toluene | Ave | 1.505 | 1.335 | | 8.87 | 10.0 | -11.3 | 20.0 |
| trans-1,3-Dichloropropene | Ave | 0.4806 | 0.3821 | | 7.95 | 10.0 | (-20.5) | 50.0 |
| Ethyl methacrylate | Lin1 | | 0.3097 | | 7.38 | 10.0 | -26.2 | 50.0 |
| 1,1,2-Trichloroethane | Ave | 0.2821 | 0.2429 | | 8.61 | 10.0 | -13.9 | 50.0 |
| 1,3-Dichloropropane | Ave | 0.5264 | 0.4245 | | 8.06 | 10.0 | -19.4 | 50.0 |
| Tetrachloroethene | Ave | 0.2807 | 0.2785 | | 9.92 | 10.0 | -0.8 | 50.0 |
| 2-Hexanone | Ave | 0.2065 | 0.1352 | | 13.1 | 20.0 | (-34.5) | 50.0 |
| Dibromochloromethane | Ave | 0.3034 | 0.2966 | | 9.77 | 10.0 | -2.3 | 50.0 |
| 1,2-Dibromoethane | Ave | 0.2672 | 0.2423 | | 9.07 | 10.0 | -9.3 | 50.0 |
| Chlorobenzene | Ave | 0.8773 | 0.8547 | 0.3000 | 9.74 | 10.0 | -2.6 | 50.0 |
| 1,1,1,2-Tetrachloroethane | Ave | 0.3168 | 0.3248 | | 10.3 | 10.0 | 2.5 | 50.0 |
| Ethylbenzene | Ave | 0.4885 | 0.4470 | | 9.15 | 10.0 | -8.5 | 20.0 |
| m-Xylene & p-Xylene | Ave | 0.5996 | 0.5689 | | 19.0 | 20.0 | -5.1 | 50.0 |
| o-Xylene | Ave | 0.5905 | 0.5684 | | 9.63 | 10.0 | -3.7 | 50.0 |
| Styrene | Ave | 0.9164 | 0.9049 | | 9.87 | 10.0 | -1.3 | 50.0 |
| Bromoform | Ave | 0.1755 | 0.1779 | 0.1000 | 10.1 | 10.0 | 1.4 | 50.0 |
| Isopropylbenzene | Ave | 1.467 | 1.461 | | 9.95 | 10.0 | -0.5 | 50.0 |
| 1,1,2,2-Tetrachloroethane | Ave | 0.6978 | 0.5447 | 0.3000 | 7.81 | 10.0 | (-21.9) | 50.0 |
| Bromobenzene | Ave | 0.6771 | 0.6238 | | 9.21 | 10.0 | -7.9 | 50.0 |
| 1,2,3-Trichloropropane | Ave | 0.2313 | 0.1856 | | 8.02 | 10.0 | -19.8 | 50.0 |
| trans-1,4-Dichloro-2-butene | Lin1 | | 0.1318 | | 5.63 | 10.0 | -43.7 | 50.0 |
| n-Propylbenzene | Ave | 0.7053 | 0.6359 | | 9.02 | 10.0 | -9.8 | 50.0 |
| 2-Chlorotoluene | Ave | 0.6283 | 0.5924 | | 9.43 | 10.0 | -5.7 | 50.0 |
| 1,3,5-Trimethylbenzene | Ave | 2.271 | 2.075 | | 9.13 | 10.0 | -8.7 | 50.0 |
| 4-Chlorotoluene | Ave | 0.6496 | 0.6064 | | 9.33 | 10.0 | -6.7 | 50.0 |
| tert-Butylbenzene | Ave | 1.911 | 1.952 | | 10.2 | 10.0 | 2.2 | 50.0 |
| 1,2,4-Trimethylbenzene | Ave | 2.307 | 2.120 | | 9.19 | 10.0 | -8.1 | 50.0 |
| sec-Butylbenzene | Ave | 2.388 | 2.266 | | 9.49 | 10.0 | -5.1 | 50.0 |
| 1,3-Dichlorobenzene | Ave | 1.249 | 1.182 | | 9.46 | 10.0 | -5.4 | 50.0 |
| p-Isopropyltoluene | Ave | 1.991 | 2.030 | | 10.2 | 10.0 | 2.0 | 50.0 |
| 1,4-Dichlorobenzene | Ave | 1.287 | 1.235 | | 9.60 | 10.0 | -4.0 | 50.0 |
| n-Butylbenzene | Ave | 1.662 | 1.544 | | 9.29 | 10.0 | -7.1 | 50.0 |
| 1,2-Dichlorobenzene | Ave | 1.224 | 1.209 | | 9.88 | 10.0 | -1.2 | 50.0 |
| 1,2-Dibromo-3-Chloropropane | Ave | 0.1175 | 0.1163 | | 9.90 | 10.0 | -1.0 | 50.0 |
| 1,3,5-Trichlorobenzene | Ave | 0.7334 | 0.8083 | | 11.0 | 10.0 | 10.2 | 50.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.6438 | 0.7105 | | 11.0 | 10.0 | 10.4 | 50.0 |
| Hexachlorobutadiene | Qua | | 0.2645 | | 11.6 | 10.0 | 15.5 | 50.0 |
| Naphthalene | Ave | 1.493 | 1.713 | | 11.5 | 10.0 | 14.7 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Lab Sample ID: CCVIS 240-56575/2 Calibration Date: 09/04/2012 10:42

Instrument ID: A3UX10 Calib Start Date: 08/02/2012 16:00

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 08/02/2012 17:47

Lab File ID: UXX8665.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 1,2,3-Trichlorobenzene | Ave | 0.5657 | 0.6236 | | 11.0 | 10.0 | 10.2 | 50.0 |
| Dibromofluoromethane (Surr) | Ave | 0.2070 | 0.2064 | | 12.0 | 12.0 | -0.3 | 50.0 |
| 1,2-Dichloroethane-d4 (Surr) | Ave | 0.3300 | 0.2465 | | 8.99 | 12.0 | -25.3 | 50.0 |
| Toluene-d8 (Surr) | Ave | 1.256 | 1.134 | | 10.9 | 12.0 | -9.7 | 50.0 |
| 4-Bromofluorobenzene (Surr) | Ave | 0.4190 | 0.3838 | | 11.0 | 12.0 | -8.4 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Lab Sample ID: CCV 240-56575/3 Calibration Date: 09/04/2012 11:04

Instrument ID: A3UX10 Calib Start Date: 08/02/2012 18:08

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 08/02/2012 19:56

Lab File ID: UXX8666.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorofluoromethane | Ave | 0.3872 | 0.4171 | | 10.8 | 10.0 | 7.7 | 50.0 |
| Ethyl ether | Ave | 0.1962 | 0.1938 | | 9.88 | 10.0 | -1.2 | 50.0 |
| 3-Chloro-1-propene | Ave | 0.1394 | 0.1336 | | 9.58 | 10.0 | -4.2 | 50.0 |
| Diisopropyl ether | Ave | 0.2244 | 0.2259 | | 50.3 | 50.0 | 0.7 | 50.0 |
| 2-Chloro-1,3-butadiene | Ave | 0.4701 | 0.3675 | | 7.82 | 10.0 | -21.8 | 50.0 |
| Ethyl-t-butyl ether (ETBE) | Ave | 0.7909 | 0.6645 | | 8.40 | 10.0 | -16.0 | 50.0 |
| Propionitrile | Ave | 0.0301 | 0.0219 | | 14.5 | 20.0 | -27.3 | 50.0 |
| Ethyl acetate | Ave | 0.2037 | 0.1389 | | 13.6 | 20.0 | -31.8 | 50.0 |
| Methacrylonitrile | Ave | 0.1560 | 0.1034 | | 6.63 | 10.0 | -33.7 | 50.0 |
| Isobutyl alcohol | Ave | 0.0102 | 0.0056 | | 109 | 200 | -45.4 | 50.0 |
| Tert-amyl-methyl ether (TAME) | Ave | 0.6421 | 0.6099 | | 9.50 | 10.0 | -5.0 | 50.0 |
| n-Heptane | Ave | 0.0373 | 0.0403 | | 10.8 | 10.0 | 8.0 | 50.0 |
| n-Butanol | Ave | 0.0070 | 0.0050 | | 143 | 200 | -28.5 | 50.0 |
| Methyl methacrylate | Ave | 0.1869 | 0.1309 | | 7.00 | 10.0 | -30.0 | 50.0 |
| 2-Nitropropane | Ave | 0.0521 | 0.0363 | | 13.9 | 20.0 | -30.4 | 50.0 |
| Cyclohexanone | Ave | 0.0211 | 0.0278 | | 132 | 100 | 31.7 | 50.0 |
| 1,2,3-Trimethylbenzene | Ave | 2.424 | 2.247 | | 9.27 | 10.0 | -7.3 | 50.0 |
| 2-Methylnaphthalene | Ave | 0.6676 | 0.7114 | | 21.3 | 20.0 | 6.6 | 50.0 |

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Lab File ID: UXX8668.D Lab Sample ID: MB 240-56575/5

Matrix: Water Heated Purge: (Y/N) N

Instrument ID: A3UX10 Date Analyzed: 09/04/2012 11:48

GC Column: DB-624 ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| | LCS 240-56575/4 | UXX8667.D | 09/04/2012 11:26 |
| | 240-14427-E-1 MS | UXX8675.D | 09/04/2012 14:27 |
| | 240-14427-E-1 MSD | UXX8676.D | 09/04/2012 14:49 |
| TB-082212 | 240-14454-1 | UXX8679.D | 09/04/2012 15:54 |
| MT-MW07S-082212 | 240-14454-2 | UXX8680.D | 09/04/2012 16:15 |
| MT-MW08S-082212 | 240-14454-3 | UXX8681.D | 09/04/2012 16:37 |
| MT-MW10S-082212 | 240-14454-4 | UXX8682.D | 09/04/2012 16:59 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-14454-1

SDG No.:

Client Sample ID:  Lab Sample ID: MB 240-56575/5

Matrix: Water  Lab File ID: UXX8668.D

Analysis Method: 8260B  Date Collected:

Sample wt/vol: 5(mL)  Date Analyzed: 09/04/2012 11:48

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 56575  Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.23 |
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 1.0 | 0.22 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.18 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trichfluoroeth ane | 1.0 | U | 1.0 | 0.28 |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.15 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.19 |
| 563-58-6 | 1,1-Dichloropropene | 1.0 | U | 1.0 | 0.13 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.325 | J | 1.0 | 0.17 |
| 96-18-4 | 1,2,3-Trichloropropane | 1.0 | U | 1.0 | 0.43 |
| 526-73-8 | 1,2,3-Trimethylbenzene | 5.0 | U | 5.0 | 0.0059 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.219 | J | 1.0 | 0.15 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.12 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 2.0 | U | 2.0 | 0.67 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.13 |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.22 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.18 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.14 |
| 142-28-9 | 1,3-Dichloropropane | 1.0 | U | 1.0 | 0.16 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.13 |
| 594-20-7 | 2,2-Dichloropropane | 1.0 | U | 1.0 | 0.13 |
| 110-75-8 | 2-Chloroethyl vinyl ether | 10 | U | 10 | 0.99 |
| 95-49-8 | 2-Chlorotoluene | 1.0 | U | 1.0 | 0.11 |
| 591-78-6 | 2-Hexanone | 10 | U | 10 | 0.41 |
| 108-86-1 | Bromobenzene | 1.0 | U | 1.0 | 0.13 |
| 74-97-5 | Bromochloromethane | 1.0 | U | 1.0 | 0.29 |
| 106-43-4 | 4-Chlorotoluene | 1.0 | U | 1.0 | 0.18 |
| 99-87-6 | p-Isopropyltoluene | 1.0 | U | 1.0 | 0.12 |
| 67-64-1 | Acetone | 10 | U | 10 | 1.1 |
| 71-43-2 | Benzene | 1.0 | U | 1.0 | 0.13 |
| 75-25-2 | Bromoform | 1.0 | U | 1.0 | 0.64 |
| 74-83-9 | Bromomethane | 1.0 | U | 1.0 | 0.41 |
| 75-15-0 | Carbon disulfide | 1.0 | U | 1.0 | 0.13 |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 1.0 | 0.13 |
| 108-90-7 | Chlorobenzene | 1.0 | U | 1.0 | 0.15 |
| 75-00-3 | Chloroethane | 1.0 | U | 1.0 | 0.29 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-14454-1

SDG No.:

Client Sample ID:  Lab Sample ID: MB 240-56575/5

Matrix: Water  Lab File ID: UXX8668.D

Analysis Method: 8260B  Date Collected:

Sample wt/vol: 5(mL)  Date Analyzed: 09/04/2012 11:48

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 56575  Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 67-66-3 | Chloroform | 1.0 | U | 1.0 | 0.16 |
| 74-87-3 | Chloromethane | 1.0 | U | 1.0 | 0.30 |
| 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.17 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.14 |
| 87-68-3 | Hexachlorobutadiene | 0.540 | J | 1.0 | 0.30 |
| 74-95-3 | Dibromomethane | 1.0 | U | 1.0 | 0.28 |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 1.0 | 0.15 |
| 75-71-8 | Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.31 |
| 100-41-4 | Ethylbenzene | 1.0 | U | 1.0 | 0.17 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.24 |
| 108-20-3 | Diisopropyl ether | 10 | U | 10 | 1.5 |
| 91-20-3 | Naphthalene | 0.246 | J | 1.0 | 0.24 |
| 179601-23-1 | m-Xylene & p-Xylene | 2.0 | U | 2.0 | 0.24 |
| 104-51-8 | n-Butylbenzene | 1.0 | U | 1.0 | 0.12 |
| 98-82-8 | Isopropylbenzene | 1.0 | U | 1.0 | 0.13 |
| 103-65-1 | n-Propylbenzene | 1.0 | U | 1.0 | 0.14 |
| 78-93-3 | 2-Butanone | 10 | U | 10 | 0.57 |
| 108-10-1 | 4-Methyl-2-pentanone | 10 | U | 10 | 0.32 |
| 135-98-8 | sec-Butylbenzene | 1.0 | U | 1.0 | 0.13 |
| 1634-04-4 | Methyl tert-butyl ether | 5.0 | U | 5.0 | 0.17 |
| 994-05-8 | Tert-amyl-methyl ether (TAME) | 5.0 | U | 5.0 | 0.067 |
| 75-09-2 | Methylene Chloride | 1.0 | U | 1.0 | 0.33 |
| 95-47-6 | o-Xylene | 1.0 | U | 1.0 | 0.14 |
| 100-42-5 | Styrene | 1.0 | U | 1.0 | 0.11 |
| 637-92-3 | Ethyl-t-butyl ether (ETBE) | 5.0 | U | 5.0 | 0.11 |
| 98-06-6 | tert-Butylbenzene | 1.0 | U | 1.0 | 0.13 |
| 127-18-4 | Tetrachloroethene | 1.0 | U | 1.0 | 0.29 |
| 108-88-3 | Toluene | 1.0 | U | 1.0 | 0.13 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.19 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.19 |
| 79-01-6 | Trichloroethene | 1.0 | U | 1.0 | 0.17 |
| 75-69-4 | Trichlorofluoromethane | 1.0 | U | 1.0 | 0.21 |
| 108-05-4 | Vinyl acetate | 2.0 | U | 2.0 | 0.19 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 1.0 | 0.22 |
| 75-65-0 | tert-Butyl alcohol | 50 | U | 50 | 3.9 |
| 1330-20-7 | Xylenes, Total | 2.0 | U | 2.0 | 0.28 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-14454-1

SDG No.:

Client Sample ID:  Lab Sample ID: MB 240-56575/5

Matrix: Water  Lab File ID: UXX8668.D

Analysis Method: 8260B  Date Collected:

Sample wt/vol: 5(mL)  Date Analyzed: 09/04/2012 11:48

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 56575  Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | 1.0 | U | 1.0 | 0.18 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 71 | | 63-129 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 86 | | 66-117 |
| 2037-26-5 | Toluene-d8 (Surr) | 86 | | 74-115 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 101 | | 75-121 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton  Job No.: 240-14454-1

SDG No.:

Client Sample ID:  Lab Sample ID: MB 240-56575/5

Matrix: Water  Lab File ID: UXX8668.D

Analysis Method: 8260B  Date Collected:

Sample wt/vol: 5(mL)  Date Analyzed: 09/04/2012 11:48

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 56575  Units: ug/L

Number TICs Found: 0  TIC Result Total: 0

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| | Tentatively Identified Compound | | None | |

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXX8667.D

Lab ID: LCS 240-56575/4 Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 10.0 | 10.0 | 100 | 72-116 | |
| 1,1,1-Trichloroethane | 10.0 | 8.67 | 87 | 74-118 | |
| 1,1,2,2-Tetrachloroethane | 10.0 | 7.61 | 76 | 68-118 | |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 10.0 | 12.1 | 121 | 74-151 | |
| 1,1-Dichloroethane | 10.0 | 8.34 | 83 | 82-115 | |
| 1,1-Dichloroethene | 10.0 | 10.3 | 103 | 78-131 | |
| 1,1-Dichloropropene | 10.0 | 8.88 | 89 | 83-114 | |
| 1,2,3-Trichlorobenzene | 10.0 | 9.91 | 99 | 54-126 | |
| 1,2,3-Trichloropropane | 10.0 | 8.05 | 80 | 73-129 | |
| 1,2,3-Trimethylbenzene | 10.0 | 8.53 | 85 | 70-130 | |
| 1,2,4-Trichlorobenzene | 10.0 | 9.50 | 95 | 48-135 | |
| 1,2,4-Trimethylbenzene | 10.0 | 8.79 | 88 | 76-120 | |
| 1,2-Dibromo-3-Chloropropane | 10.0 | 9.34 | 93 | 42-136 | |
| 1,2-Dichlorobenzene | 10.0 | 9.39 | 94 | 81-110 | |
| 1,2-Dichloroethane | 10.0 | 7.77 | 78 | 71-127 | |
| 1,2-Dichloropropane | 10.0 | 8.26 | 83 | 81-115 | |
| 1,3-Dichlorobenzene | 10.0 | 9.22 | 92 | 80-110 | |
| 1,3-Dichloropropane | 10.0 | 8.10 | 81 | 79-116 | |
| 1,4-Dichlorobenzene | 10.0 | 9.22 | 92 | 82-110 | |
| 2,2-Dichloropropane | 10.0 | 9.00 | 90 | 50-129 | |
| 2-Chloroethyl vinyl ether | 10.0 | 7.55 J | 76 | 52-131 | |
| 2-Chlorotoluene | 10.0 | 9.42 | 94 | 76-116 | |
| 2-Hexanone | 20.0 | 12.6 | 63 | 55-133 | |
| Bromobenzene | 10.0 | 9.07 | 91 | 76-115 | |
| Bromochloromethane | 10.0 | 10.3 | 103 | 77-120 | |
| 4-Chlorotoluene | 10.0 | 9.23 | 92 | 77-115 | |
| p-Isopropyltoluene | 10.0 | 9.72 | 97 | 74-120 | |
| Acetone | 20.0 | 14.0 | 70 | 43-136 | |
| Benzene | 10.0 | 9.00 | 90 | 83-112 | |
| Bromoform | 10.0 | 10.0 | 100 | 40-131 | |
| Bromomethane | 10.0 | 10.4 | 104 | 11-185 | |
| Carbon disulfide | 10.0 | 8.31 | 83 | 62-142 | |
| Carbon tetrachloride | 10.0 | 9.60 | 96 | 66-128 | |
| Chlorobenzene | 10.0 | 9.65 | 96 | 85-110 | |
| Chloroethane | 10.0 | 8.96 | 90 | 25-153 | |
| Chloroform | 10.0 | 8.32 | 83 | 79-117 | |
| Chloromethane | 10.0 | 7.32 | 73 | 44-126 | |
| cis-1,2-Dichloroethene | 10.0 | 9.63 | 96 | 80-113 | |
| cis-1,3-Dichloropropene | 10.0 | 8.12 | 81 | 61-115 | |
| Hexachlorobutadiene | 10.0 | 9.17 | 92 | 36-134 | |
| Dibromomethane | 10.0 | 9.22 | 92 | 81-120 | |

# Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXX8667.D

Lab ID: LCS 240-56575/4 Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| Bromodichloromethane | 10.0 | 8.40 | 84 | 72-121 | |
| Dichlorodifluoromethane | 10.0 | 6.59 | 66 | 19-129 | |
| Ethylbenzene | 10.0 | 8.89 | 89 | 83-112 | |
| 1,2-Dibromoethane | 10.0 | 8.89 | 89 | 79-113 | |
| Diisopropyl ether | 10.0 | 9.13 J | 91 | 77-118 | |
| Naphthalene | 10.0 | 10.4 | 104 | 32-141 | |
| m-Xylene & p-Xylene | 20.0 | 18.6 | 93 | 83-113 | |
| n-Butylbenzene | 10.0 | 8.54 | 85 | 66-125 | |
| Isopropylbenzene | 10.0 | 9.61 | 96 | 75-114 | |
| n-Propylbenzene | 10.0 | 9.01 | 90 | 74-121 | |
| 2-Butanone | 20.0 | 12.5 | 63 | 60-126 | |
| 4-Methyl-2-pentanone | 20.0 | 13.5 | 68 | 63-128 | |
| sec-Butylbenzene | 10.0 | 8.80 | 88 | 70-117 | |
| Methyl tert-butyl ether | 10.0 | 8.48 | 85 | 52-144 | |
| Methylene Chloride | 10.0 | 8.50 | 85 | 66-131 | |
| o-Xylene | 10.0 | 9.47 | 95 | 83-113 | |
| Styrene | 10.0 | 9.74 | 97 | 79-114 | |
| tert-Butylbenzene | 10.0 | 9.65 | 97 | 71-115 | |
| Tetrachloroethene | 10.0 | 9.51 | 95 | 79-114 | |
| Toluene | 10.0 | 8.53 | 85 | 84-111 | |
| trans-1,2-Dichloroethene | 10.0 | 9.32 | 93 | 83-117 | |
| trans-1,3-Dichloropropene | 10.0 | 7.80 | 78 | 58-117 | |
| Trichloroethene | 10.0 | 10.7 | 107 | 76-117 | |
| Trichlorofluoromethane | 10.0 | 10.6 | 106 | 49-157 | |
| Vinyl acetate | 10.0 | 11.1 | 111 | 46-161 | |
| Vinyl chloride | 10.0 | 9.16 | 92 | 53-127 | |
| tert-Butyl alcohol | 200 | 145 | 72 | 70-130 | |
| Xylenes, Total | 30.0 | 28.1 | 94 | 83-112 | |
| Dibromochloromethane | 10.0 | 9.34 | 93 | 64-119 | |

# Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXX8675.D

Lab ID: 240-14427-E-1 MS Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 33.3 | 3.3 U | 34.3 | 103 | 64-118 | |
| 1,1,1-Trichloroethane | 33.3 | 3.3 U | 29.8 | 89 | 68-121 | |
| 1,1,2,2-Tetrachloroethane | 33.3 | 3.3 U | 24.7 | 74 | 63-122 | |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 33.3 | 3.3 U | 44.3 | 133 | 70-152 | |
| 1,1-Dichloroethane | 33.3 | 3.3 U | 28.5 | 85 | 79-116 | |
| 1,1-Dichloroethene | 33.3 | 3.3 U | 35.1 | 105 | 74-135 | |
| 1,1-Dichloropropene | 33.3 | 3.3 U | 31.2 | 94 | 80-114 | |
| 1,2,3-Trichlorobenzene | 33.3 | 3.3 U | 35.7 | 107 | 45-129 | |
| 1,2,3-Trichloropropane | 33.3 | 3.3 U | 26.1 | 78 | 67-132 | |
| 1,2,3-Trimethylbenzene | 33.3 | 8.9 J | 39.1 | 91 | 70-130 | |
| 1,2,4-Trichlorobenzene | 33.3 | 3.3 U | 35.0 | 105 | 38-138 | |
| 1,2,4-Trimethylbenzene | 33.3 | 21 | 51.9 | 93 | 67-124 | |
| 1,2-Dibromo-3-Chloropropane | 33.3 | 6.7 U | 31.6 | 95 | 32-139 | |
| 1,2-Dichlorobenzene | 33.3 | 3.3 U | 32.3 | 97 | 75-111 | |
| 1,2-Dichloroethane | 33.3 | 3.3 U | 28.1 | 84 | 68-129 | |
| 1,2-Dichloropropane | 33.3 | 3.3 U | 27.7 | 83 | 78-115 | |
| 1,3-Dichlorobenzene | 33.3 | 3.3 U | 31.1 | 93 | 73-110 | |
| 1,3-Dichloropropane | 33.3 | 3.3 U | 26.8 | 80 | 74-118 | |
| 1,4-Dichlorobenzene | 33.3 | 3.3 U | 31.2 | 94 | 75-110 | |
| 2,2-Dichloropropane | 33.3 | 3.3 U | 30.2 | 91 | 38-127 | |
| 2-Chloroethyl vinyl ether | 33.3 | 33 U | 33 U | 0 | 10-150 | F |
| 2-Chlorotoluene | 33.3 | 3.3 U | 31.0 | 93 | 69-117 | |
| 2-Hexanone | 66.7 | 33 U | 43.8 | 66 | 47-139 | |
| Bromobenzene | 33.3 | 3.3 U | 29.0 | 87 | 71-116 | |
| Bromochloromethane | 33.3 | 3.3 U | 35.3 | 106 | 73-121 | |
| 4-Chlorotoluene | 33.3 | 3.3 U | 29.6 | 89 | 71-116 | |
| p-Isopropyltoluene | 33.3 | 3.3 U | 34.4 | 103 | 64-122 | |
| Acetone | 66.7 | 33 U | 56.4 | 85 | 33-145 | |
| Benzene | 33.3 | 98 | 128 | 91 | 72-121 | |
| Bromoform | 33.3 | 3.3 U | 31.7 | 95 | 32-128 | |
| Bromomethane | 33.3 | 3.3 U | 26.5 | 80 | 10-186 | |
| Carbon disulfide | 33.3 | 3.3 U | 29.3 | 88 | 57-147 | |
| Carbon tetrachloride | 33.3 | 3.3 U | 33.2 | 100 | 59-129 | |
| Chlorobenzene | 33.3 | 3.3 U | 32.1 | 96 | 80-110 | |
| Chloroethane | 33.3 | 3.3 U | 27.0 | 81 | 21-165 | |
| Chloroform | 33.3 | 3.3 U | 28.2 | 85 | 76-118 | |
| Chloromethane | 33.3 | 3.3 U | 22.0 | 66 | 33-132 | |
| cis-1,2-Dichloroethene | 33.3 | 3.3 U | 32.4 | 97 | 70-120 | |
| cis-1,3-Dichloropropene | 33.3 | 3.3 U | 26.3 | 79 | 51-110 | |
| Hexachlorobutadiene | 33.3 | 3.3 U | 34.0 | 102 | 27-132 | |
| Dibromomethane | 33.3 | 3.3 U | 30.4 | 91 | 77-121 | |

# Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXX8675.D

Lab ID: 240-14427-E-1 MS Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|---|
| Bromodichloromethane | 33.3 | 3.3 U | 28.3 | 85 | 67-120 | |
| Dichlorodifluoromethane | 33.3 | 3.3 U | 24.8 | 74 | 17-128 | |
| Ethylbenzene | 33.3 | 51 | 83.2 | 97 | 75-116 | |
| 1,2-Dibromoethane | 33.3 | 3.3 U | 28.8 | 86 | 74-113 | |
| Diisopropyl ether | 33.3 | 33 U | 30.7 J | 92 | 73-118 | |
| Naphthalene | 33.3 | 9.0 | 50.4 | 124 | 15-158 | |
| m-Xylene & p-Xylene | 66.7 | 110 | 177 | 98 | 75-117 | |
| n-Butylbenzene | 33.3 | 3.3 U | 31.4 | 94 | 56-127 | |
| Isopropylbenzene | 33.3 | 2.7 J | 36.6 | 102 | 68-116 | |
| n-Propylbenzene | 33.3 | 2.2 J | 32.9 | 92 | 64-124 | |
| 2-Butanone | 66.7 | 33 U | 45.1 | 68 | 54-129 | |
| 4-Methyl-2-pentanone | 66.7 | 33 U | 45.5 | 68 | 56-131 | |
| sec-Butylbenzene | 33.3 | 3.3 U | 30.8 | 92 | 60-119 | |
| Methyl tert-butyl ether | 33.3 | 17 U | 28.7 | 86 | 46-144 | |
| Methylene Chloride | 33.3 | 3.3 U | 29.8 | 89 | 63-128 | |
| o-Xylene | 33.3 | 74 | 110 | 106 | 76-116 | |
| Styrene | 33.3 | 3.3 U | 35.7 | 107 | 71-117 | |
| tert-Butylbenzene | 33.3 | 3.3 U | 29.4 | 88 | 61-119 | |
| Tetrachloroethene | 33.3 | 3.3 U | 33.1 | 99 | 70-117 | |
| Toluene | 33.3 | 0.93 J | 30.3 | 88 | 78-114 | |
| trans-1,2-Dichloroethene | 33.3 | 3.3 U | 31.7 | 95 | 80-119 | |
| trans-1,3-Dichloropropene | 33.3 | 3.3 U | 24.9 | 75 | 46-116 | |
| Trichloroethene | 33.3 | 3.3 U | 35.8 | 107 | 66-120 | |
| Trichlorofluoromethane | 33.3 | 3.3 U | 35.4 | 106 | 46-157 | |
| Vinyl acetate | 33.3 | 6.7 U | 36.9 | 111 | 43-157 | |
| Vinyl chloride | 33.3 | 3.3 U | 32.0 | 96 | 49-130 | |
| tert-Butyl alcohol | 667 | 170 U | 612 | 92 | 70-130 | |
| Xylenes, Total | 100 | 180 | 287 | 103 | 76-116 | |
| Dibromochloromethane | 33.3 | 3.3 U | 29.7 | 89 | 56-118 | |

# Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXX8676.D

Lab ID: 240-14427-E-1 MSD Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD % REC | % RPD | QC LIMITS RPD | QC LIMITS REC | # |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 33.3 | 32.8 | 98 | 5 | 30 | 64-118 | |
| 1,1,1-Trichloroethane | 33.3 | 28.9 | 87 | 3 | 30 | 68-121 | |
| 1,1,2,2-Tetrachloroethane | 33.3 | 26.1 | 78 | 6 | 30 | 63-122 | |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 33.3 | 42.6 | 128 | 4 | 30 | 70-152 | |
| 1,1-Dichloroethane | 33.3 | 28.3 | 85 | 1 | 30 | 79-116 | |
| 1,1-Dichloroethene | 33.3 | 34.6 | 104 | 1 | 30 | 74-135 | |
| 1,1-Dichloropropene | 33.3 | 30.9 | 93 | 1 | 30 | 80-114 | |
| 1,2,3-Trichlorobenzene | 33.3 | 33.7 | 101 | 6 | 30 | 45-129 | |
| 1,2,3-Trichloropropane | 33.3 | 27.7 | 83 | 6 | 30 | 67-132 | |
| 1,2,3-Trimethylbenzene | 33.3 | 38.4 | 89 | 2 | 30 | 70-130 | |
| 1,2,4-Trichlorobenzene | 33.3 | 32.0 | 96 | 9 | 30 | 38-138 | |
| 1,2,4-Trimethylbenzene | 33.3 | 52.7 | 95 | 2 | 30 | 67-124 | |
| 1,2-Dibromo-3-Chloropropane | 33.3 | 32.8 | 98 | 4 | 30 | 32-139 | |
| 1,2-Dichlorobenzene | 33.3 | 31.5 | 94 | 3 | 30 | 75-111 | |
| 1,2-Dichloroethane | 33.3 | 28.4 | 85 | 1 | 30 | 68-129 | |
| 1,2-Dichloropropane | 33.3 | 28.5 | 85 | 3 | 30 | 78-115 | |
| 1,3-Dichlorobenzene | 33.3 | 31.7 | 95 | 2 | 30 | 73-110 | |
| 1,3-Dichloropropane | 33.3 | 27.7 | 83 | 3 | 30 | 74-118 | |
| 1,4-Dichlorobenzene | 33.3 | 31.9 | 96 | 2 | 30 | 75-110 | |
| 2,2-Dichloropropane | 33.3 | 28.7 | 86 | 5 | 30 | 38-127 | |
| 2-Chloroethyl vinyl ether | 33.3 | 33 U | 0 | NC | 30 | 10-150 | F |
| 2-Chlorotoluene | 33.3 | 31.6 | 95 | 2 | 30 | 69-117 | |
| 2-Hexanone | 66.7 | 46.3 | 69 | 5 | 30 | 47-139 | |
| Bromobenzene | 33.3 | 30.8 | 92 | 6 | 30 | 71-116 | |
| Bromochloromethane | 33.3 | 36.1 | 108 | 2 | 30 | 73-121 | |
| 4-Chlorotoluene | 33.3 | 31.4 | 94 | 6 | 30 | 71-116 | |
| p-Isopropyltoluene | 33.3 | 33.9 | 102 | 1 | 30 | 64-122 | |
| Acetone | 66.7 | 54.2 | 81 | 4 | 30 | 33-145 | |
| Benzene | 33.3 | 129 | 93 | 1 | 30 | 72-121 | |
| Bromoform | 33.3 | 32.6 | 98 | 3 | 30 | 32-128 | |
| Bromomethane | 33.3 | 25.0 | 75 | 6 | 30 | 10-186 | |
| Carbon disulfide | 33.3 | 28.5 | 85 | 3 | 30 | 57-147 | |
| Carbon tetrachloride | 33.3 | 31.6 | 95 | 5 | 30 | 59-129 | |
| Chlorobenzene | 33.3 | 32.5 | 98 | 1 | 30 | 80-110 | |
| Chloroethane | 33.3 | 26.8 | 80 | 1 | 30 | 21-165 | |
| Chloroform | 33.3 | 28.0 | 84 | 1 | 30 | 76-118 | |
| Chloromethane | 33.3 | 22.1 | 66 | 0 | 30 | 33-132 | |
| cis-1,2-Dichloroethene | 33.3 | 32.8 | 98 | 1 | 30 | 70-120 | |
| cis-1,3-Dichloropropene | 33.3 | 27.7 | 83 | 5 | 30 | 51-110 | |
| Hexachlorobutadiene | 33.3 | 33.0 | 99 | 3 | 30 | 27-132 | |
| Dibromomethane | 33.3 | 31.6 | 95 | 4 | 30 | 77-121 | |

# Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXX8676.D

Lab ID: 240-14427-E-1 MSD Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD % REC | % RPD | QC LIMITS RPD | QC LIMITS REC | # |
|---|---|---|---|---|---|---|---|
| Bromodichloromethane | 33.3 | 28.0 | 84 | 1 | 30 | 67-120 | |
| Dichlorodifluoromethane | 33.3 | 23.9 | 72 | 3 | 30 | 17-128 | |
| Ethylbenzene | 33.3 | 82.1 | 93 | 1 | 30 | 75-116 | |
| 1,2-Dibromoethane | 33.3 | 30.2 | 91 | 5 | 30 | 74-113 | |
| Diisopropyl ether | 33.3 | 30.3 J | 91 | 1 | 30 | 73-118 | |
| Naphthalene | 33.3 | 47.9 | 117 | 5 | 30 | 15-158 | |
| m-Xylene & p-Xylene | 66.7 | 176 | 96 | 1 | 30 | 75-117 | |
| n-Butylbenzene | 33.3 | 30.2 | 91 | 4 | 30 | 56-127 | |
| Isopropylbenzene | 33.3 | 35.5 | 98 | 3 | 30 | 68-116 | |
| n-Propylbenzene | 33.3 | 33.6 | 94 | 2 | 30 | 64-124 | |
| 2-Butanone | 66.7 | 47.0 | 71 | 4 | 30 | 54-129 | |
| 4-Methyl-2-pentanone | 66.7 | 47.1 | 71 | 4 | 30 | 56-131 | |
| sec-Butylbenzene | 33.3 | 30.5 | 92 | 1 | 30 | 60-119 | |
| Methyl tert-butyl ether | 33.3 | 29.3 | 88 | 2 | 30 | 46-144 | |
| Methylene Chloride | 33.3 | 29.2 | 88 | 2 | 30 | 63-128 | |
| o-Xylene | 33.3 | 106 | 97 | 3 | 30 | 76-116 | |
| Styrene | 33.3 | 36.1 | 108 | 1 | 30 | 71-117 | |
| tert-Butylbenzene | 33.3 | 31.2 | 94 | 6 | 30 | 61-119 | |
| Tetrachloroethene | 33.3 | 32.6 | 98 | 1 | 30 | 70-117 | |
| Toluene | 33.3 | 29.4 | 85 | 3 | 30 | 78-114 | |
| trans-1,2-Dichloroethene | 33.3 | 30.4 | 91 | 4 | 30 | 80-119 | |
| trans-1,3-Dichloropropene | 33.3 | 26.0 | 78 | 4 | 30 | 46-116 | |
| Trichloroethene | 33.3 | 36.8 | 110 | 3 | 30 | 66-120 | |
| Trichlorofluoromethane | 33.3 | 31.2 | 93 | 13 | 30 | 46-157 | |
| Vinyl acetate | 33.3 | 39.1 | 117 | 6 | 30 | 43-157 | |
| Vinyl chloride | 33.3 | 32.1 | 96 | 0 | 30 | 49-130 | |
| tert-Butyl alcohol | 667 | 654 | 98 | 7 | 30 | 70-130 | |
| Xylenes, Total | 100 | 282 | 98 | 2 | 30 | 76-116 | |
| Dibromochloromethane | 33.3 | 30.5 | 92 | 3 | 30 | 56-118 | |

# Column to be used to flag recovery and RPD values

FORM III 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton  Job No.: 240-14454-1

SDG No.:

Sample No.: STD8260 240-53056/4  Date Analyzed: 08/02/2012 16:43

Instrument ID: A3UX10  GC Column: DB-624  ID: 0.18(mm)

Lab File ID (Standard): UXX8050.D  Heated Purge: (Y/N) N

Calibration ID: 10418

| | | FB | | CBZ | | DCB | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | | 1668059 | 5.21 | 1018723 | 7.88 | 497626 | 10.13 |
| UPPER LIMIT | | 3336118 | 5.71 | 2037446 | 8.38 | 995252 | 10.63 |
| LOWER LIMIT | | 834030 | 4.71 | 509362 | 7.38 | 248813 | 9.63 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| CCVIS 240-56575/2 | | 2128679 | 5.20 | 1401561 | 7.88 | 814490 | 10.13 |

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton  Job No.: 240-14454-1

SDG No.:

Sample No.: CCVIS 240-56575/2  Date Analyzed: 09/04/2012 10:42

Instrument ID: A3UX10  GC Column: DB-624  ID: 0.18(mm)

Lab File ID (Standard): UXX8665.D  Heated Purge: (Y/N) N

Calibration ID: 10420

| | | FB | | CBZ | | DCB | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 2128679 | 5.20 | 1401561 | 7.88 | 814490 | 10.13 |
| UPPER LIMIT | | 4257358 | 5.70 | 2803122 | 8.38 | 1628980 | 10.63 |
| LOWER LIMIT | | 1064340 | 4.70 | 700781 | 7.38 | 407245 | 9.63 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| CCV 240-56575/3 | | 2025314 | 5.21 | 1345549 | 7.88 | 763329 | 10.13 |
| LCS 240-56575/4 | | 2124836 | 5.20 | 1392156 | 7.88 | 809162 | 10.13 |
| MB 240-56575/5 | | 2167329 | 5.21 | 1381849 | 7.88 | 767254 | 10.13 |
| 240-14427-E-1 MS | | 2013531 | 5.21 | 1322228 | 7.88 | 794283 | 10.13 |
| 240-14427-E-1 MSD | | 2074957 | 5.22 | 1433597 | 7.89 | 818578 | 10.13 |
| 240-14454-1 | TB-082212 | 1864327 | 5.21 | 1185573 | 7.88 | 692442 | 10.13 |
| 240-14454-2 | MT-MW07S-082212 | 1910478 | 5.22 | 1221917 | 7.89 | 699846 | 10.13 |
| 240-14454-3 | MT-MW08S-082212 | 1947973 | 5.21 | 1306899 | 7.88 | 733821 | 10.13 |
| 240-14454-4 | MT-MW10S-082212 | 1918688 | 5.20 | 1301784 | 7.88 | 733584 | 10.13 |

FB = Fluorobenzene
FB = Fluorobenzene
CBZ = Chlorobenzene-d5
CBZ = Chlorobenzene-d5
Area Limit = 50%-200% of internal standard area
DCB = 1,4-Dichlorobenzene-d4
RT Limit = ± 0.5 minutes of internal standard RT
DCB = 1,4-Dichlorobenzene-d4

# Column used to flag values outside QC limits

FORM VIII 8260B

SDG 240-14454-1

**SAMPLE ID** MT-MW08S-082212

| SAMPLE CALC IS AREA | DILUTION | COMPOUND OF INTEREST / IS AMOUNT (NG) | Final Volume (ML) | AVE RRF | CONCENTRATION ug/L |
|---|---|---|---|---|---|
| 1947973 | 1 | 201023 | 10 | 5 | 0.7796 | 1.32 |
| | | | Sample Volume (ML) | | |
| | | | 5 | | |

Carbon disulfide = 1.3 ug/L

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A3UX10\20120904-12902.b\UXX8681.D
Lims ID: 240-14454-A-3 Client ID: MT-MW08S-082212
Inject. Date: 04-Sep-2012 16:37:30 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 240-0012902-018
Misc. Info.: P20904A,8260LLUX10,,1904 =P20904A,8260LLUX10,,1904
Operator: 1904 Instrument ID: A3UX10
Vol. Injected: 1.0000 ALS Bottle#: 17
Lims Batch ID: 56575 Lims Sample ID: 18
Detector: MS SCAN

Method: \\NCChrom\ChromData\A3UX10\20120904-12902.b\8260_10.m
Last Update: 05-Sep-2012 08:21:14 Calib Date: 02-Aug-2012 19:56:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A3UX10\20120802-12065.b\UXX8059.D
Limit Group: MSV 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Process Host: XAWRK005

First Level Reviewer: quayler Date: 05-Sep-2012 08:11:20

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Fluorobenzene | 96 | 5.207 | 5.205 | 0.002 | 99 | 1947973 | 10.0 | |
| * 2 Chlorobenzene-d5 | 117 | 7.881 | 7.879 | 0.002 | 85 | 1306899 | 10.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 10.129 | 10.127 | 0.002 | 94 | 733821 | 10.0 | |
| $ 5 Dibromofluoromethane (Surr) | 113 | 4.639 | 4.636 | 0.003 | 60 | 493574 | 12.2 | |
| $ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 4.923 | 4.920 | 0.003 | 0 | 569853 | 8.86 | |
| $ 7 Toluene-d8 (Surr) | 98 | 6.568 | 6.577 | -0.009 | 93 | 1723944 | 10.5 | |
| $ 8 4-Bromofluorobenzene (Surr) | 95 | 8.993 | 8.991 | 0.002 | 91 | 594943 | 10.9 | |
| 12 Dichlorodifluoromethane | 85 | | 1.572 | | | | | |
| 13 Chloromethane | 50 | 1.704 | 1.702 | 0.002 | 75 | 25197 | 0.3726 | |
| 14 Vinyl chloride | 62 | | 1.808 | | | | | |
| 16 Bromomethane | 94 | | 2.092 | | | | | 9 |
| 17 Chloroethane | 64 | | 2.175 | | | | | |
| 19 Trichlorofluoromethane | 101 | | 2.400 | | | | | |
| 23 1,1-Dichloroethene | 96 | | 2.814 | | | | | |
| 24 Acetone | 43 | 2.829 | 2.826 | 0.002 | 95 | 52525 | 2.79 | |
| 25 1,1,2-Trichloro-1,2,2-trifluoroe | 151 | | 2.838 | | | | | |
| 27 Carbon disulfide | 76 | 3.006 | 3.015 | -0.009 | 97 | 201023 | 1.32 | |
| 31 Methylene Chloride | 84 | | 3.205 | | | | | 9 |
| 32 2-Methyl-2-propanol | 59 | | 3.264 | | | | | |
| 35 Methyl tert-butyl ether | 73 | | 3.429 | | | | | |
| 34 trans-1,2-Dichloroethene | 96 | | 3.441 | | | | | |
| 37 1,1-Dichloroethane | 63 | | 3.772 | | | | | |
| 38 Vinyl acetate | 86 | | 3.796 | | | | | |
| 39 Isopropyl ether | 87 | | 3.832 | | | | | |
| 41 Tert-butyl ethyl ether | 59 | | 4.128 | | | | | |
| 42 2-Butanone (MEK) | 43 | | 4.246 | | | | | |
| 43 cis-1,2-Dichloroethene | 96 | | 4.246 | | | | | |
| 44 2,2-Dichloropropane | 77 | | 4.258 | | | | | |
| 48 Chlorobromomethane | 128 | | 4.447 | | | | | |
| 50 Chloroform | 83 | | 4.506 | | | | | 9 |
| 51 1,1,1-Trichloroethane | 97 | | 4.684 | | | | | |

# Method 8270D

## Semivolatile Organic Compounds (GC/MS) by Method 8270D

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): RXI-5SILMS ID: 0.45 (mm)

| Client Sample ID | Lab Sample ID | 2FP # | PHL # | NBZ # | FBP # | TBP # | TPH # |
|---|---|---|---|---|---|---|---|
| MT-MW07S-082212 | 240-14454-2 | 72 | 69 | 68 | 68 | 73 | 84 |
| MT-MW08S-082212 | 240-14454-3 | 74 | 70 | 65 | 66 | 80 | 81 |
| MT-MW10S-082212 | 240-14454-4 | 65 | 63 | 62 | 61 | 71 | 72 |
| | MB 240-55629/14-A | 76 | 74 | 71 | 71 | 68 | 88 |
| | LCS 240-55629/15-A | 94 | 93 | 91 | 86 | 100 | 100 |

| | QC LIMITS |
|---|---|
| 2FP = 2-Fluorophenol (Surr) | 10-110 |
| PHL = Phenol-d5 (Surr) | 21-110 |
| NBZ = Nitrobenzene-d5 (Surr) | 21-110 |
| FBP = 2-Fluorobiphenyl (Surr) | 20-110 |
| TBP = 2,4,6-Tribromophenol (Surr) | 21-110 |
| TPH = Terphenyl-d14 (Surr) | 24-110 |

# Column to be used to flag recovery values

FORM II 8270D

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Instrument ID: A4HP9 Start Date: 09/06/2012 10:52

Analysis Batch Number: 56877 End Date: 09/06/2012 20:29

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| DFTPP 240-56877/1 | | 09/06/2012 10:52 | 1 | 20906001.D | RXI-5SILMS 0.45(mm) |
| STD5 240-56877/2 IC | | 09/06/2012 11:13 | 1 | 20906002.D | RXI-5SILMS 0.45(mm) |
| STD4 240-56877/3 IC | | 09/06/2012 11:32 | 1 | 20906003.D | RXI-5SILMS 0.45(mm) |
| STD3 240-56877/4 IC | | 09/06/2012 11:52 | 1 | 20906004.D | RXI-5SILMS 0.45(mm) |
| STD2 240-56877/5 IC | | 09/06/2012 12:11 | 1 | 20906005.D | RXI-5SILMS 0.45(mm) |
| STD1 240-56877/6 IC | | 09/06/2012 12:31 | 1 | 20906006.D | RXI-5SILMS 0.45(mm) |
| STD9 240-56877/7 IC | | 09/06/2012 12:50 | 1 | 20906007.D | RXI-5SILMS 0.45(mm) |
| STD8 240-56877/8 IC | | 09/06/2012 13:10 | 1 | 20906008.D | RXI-5SILMS 0.45(mm) |
| STD7 240-56877/9 IC | | 09/06/2012 13:29 | 1 | 20906009.D | RXI-5SILMS 0.45(mm) |
| STD6 240-56877/10 ICIS | | 09/06/2012 13:49 | 1 | 20906010.D | RXI-5SILMS 0.45(mm) |
| ICV 240-56877/11 | | 09/06/2012 14:36 | 1 | 20906011.D | RXI-5SILMS 0.45(mm) |
| STD5 240-56877/12 IC | | 09/06/2012 14:57 | 1 | | RXI-5SILMS 0.45(mm) |
| STD4 240-56877/13 IC | | 09/06/2012 15:16 | 1 | | RXI-5SILMS 0.45(mm) |
| STD3 240-56877/14 IC | | 09/06/2012 15:36 | 1 | | RXI-5SILMS 0.45(mm) |
| STD2 240-56877/15 IC | | 09/06/2012 15:56 | 1 | | RXI-5SILMS 0.45(mm) |
| STD6 240-56877/16 IC | | 09/06/2012 16:15 | 1 | | RXI-5SILMS 0.45(mm) |
| STD7 240-56877/17 IC | | 09/06/2012 16:35 | 1 | | RXI-5SILMS 0.45(mm) |
| STD8 240-56877/18 IC | | 09/06/2012 16:54 | 1 | | RXI-5SILMS 0.45(mm) |
| STD9 240-56877/19 IC | | 09/06/2012 17:14 | 1 | | RXI-5SILMS 0.45(mm) |
| ICV 240-56877/20 | | 09/06/2012 17:34 | 1 | | RXI-5SILMS 0.45(mm) |
| MB 240-55629/14-A | | 09/06/2012 17:53 | 1 | 20906021.D | RXI-5SILMS 0.45(mm) |
| LCS 240-55629/15-A | | 09/06/2012 18:13 | 1 | 20906022.D | RXI-5SILMS 0.45(mm) |
| ZZZZZ | | 09/06/2012 18:52 | 1 | | RXI-5SILMS 0.45(mm) |
| ZZZZZ | | 09/06/2012 19:11 | 1 | | RXI-5SILMS 0.45(mm) |
| ZZZZZ | | 09/06/2012 19:31 | 1 | | RXI-5SILMS 0.45(mm) |
| 240-14454-2 | MT-MW07S-082212 | 09/06/2012 19:50 | 1 | 20906027.D | RXI-5SILMS 0.45(mm) |
| 240-14454-3 | MT-MW08S-082212 | 09/06/2012 20:10 | 1 | 20906028.D | RXI-5SILMS 0.45(mm) |
| 240-14454-4 | MT-MW10S-082212 | 09/06/2012 20:29 | 1 | 20906029.D | RXI-5SILMS 0.45(mm) |

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Lab File ID: 20906001.D DFTPP Injection Date: 09/06/2012

Instrument ID: A4HP9 DFTPP Injection Time: 10:52

Analysis Batch No.: 56877

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 51 | 30.0- 80.0% of mass 198 | 31.4 | |
| 68 | Less than 2.0% of mass 69 | 0.0 | (0.0)1 |
| 69 | Mass 69 relative abundance | 51.1 | |
| 70 | Less than 2.0% of mass 69 | 0.2 | (0.5)1 |
| 127 | 25.0 - 75.0% of mass 198 | 45.5 | |
| 197 | Less than 1.0% of mass 198 | 0.0 | |
| 198 | Base Peak, 100% relative abundance | 100.0 | |
| 199 | 5.0 to 9.0% of mass 198 | 6.7 | |
| 275 | 10.0- 30.0% of mass 198 | 25.5 | |
| 365 | Greater than 0.75% of mass 198 | 2.6 | |
| 441 | Present, but less than mass 443 | 12.7 | |
| 442 | 40.0 - 110.0% of mass 198 | 73.4 | |
| 443 | 15.0 - 24.0% of mass 442 | 14.2 | (19.3)2 |

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | STD5 240-56877/2 | 20906002.D | 09/06/2012 | 11:13 |
| | STD4 240-56877/3 | 20906003.D | 09/06/2012 | 11:32 |
| | STD3 240-56877/4 | 20906004.D | 09/06/2012 | 11:52 |
| | STD2 240-56877/5 | 20906005.D | 09/06/2012 | 12:11 |
| | STD1 240-56877/6 | 20906006.D | 09/06/2012 | 12:31 |
| | STD9 240-56877/7 | 20906007.D | 09/06/2012 | 12:50 |
| | STD8 240-56877/8 | 20906008.D | 09/06/2012 | 13:10 |
| | STD7 240-56877/9 | 20906009.D | 09/06/2012 | 13:29 |
| | STD6 240-56877/10 | 20906010.D | 09/06/2012 | 13:49 |
| | ICV 240-56877/11 | 20906011.D | 09/06/2012 | 14:36 |
| | MB 240-55629/14-A | 20906021.D | 09/06/2012 | 17:53 |
| | LCS 240-55629/15-A | 20906022.D | 09/06/2012 | 18:13 |
| MT-MW07S-082212 | 240-14454-2 | 20906027.D | 09/06/2012 | 19:50 |
| MT-MW08S-082212 | 240-14454-3 | 20906028.D | 09/06/2012 | 20:10 |
| MT-MW10S-082212 | 240-14454-4 | 20906029.D | 09/06/2012 | 20:29 |

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-14454-1  Analy Batch No.: 56877

SDG No.:

Instrument ID: A4HP9  GC Column: RXI-5SILMS  ID: 0.45(mm)  Heated Purge: (Y/N) N

Calibration Start Date: 09/06/2012 11:13  Calibration End Date: 09/06/2012 13:49  Calibration ID: 11220

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-56877/6 | 20906006.D |
| Level 2 | STD2 240-56877/5 | 20906005.D |
| Level 3 | STD3 240-56877/4 | 20906004.D |
| Level 4 | STD4 240-56877/3 | 20906003.D |
| Level 5 | STD5 240-56877/2 | 20906002.D |
| Level 6 | STD6 240-56877/10 | 20906010.D |
| Level 7 | STD7 240-56877/9 | 20906009.D |
| Level 8 | STD8 240-56877/8 | 20906008.D |
| Level 9 | STD9 240-56877/7 | 20906007.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 1,4-Dioxane | 0.7770 | 0.8194<br>0.7672 | 0.7786<br>0.8078 | 0.7911<br>0.8221 | 0.8122 | Ave | | 0.7969 | | | | 2.7 | | 20.0 | | | |
| N-Nitrosodimethylamine | 1.4062 | 1.3955<br>1.4081 | 1.3529<br>1.4634 | 1.4640<br>1.4420 | 1.4980 | Ave | | 1.4288 | | | | 3.3 | | 20.0 | | | |
| Pyridine | 2.1574 | 2.1450<br>2.1301 | 2.1507<br>2.2912 | 2.1711<br>2.2623 | 2.2960 | Ave | | 2.2005 | | | | 3.2 | | 20.0 | | | |
| Ethyl methacrylate | 1.8927 | 2.0414<br>1.8571 | 1.9733<br>1.9275 | 2.0070<br>1.9360 | 2.0121 | Ave | | 1.9559 | | | | 3.3 | | 20.0 | | | |
| 3-Chloropropionitrile | 0.8685 | 0.9281<br>0.8610 | 0.9072<br>0.8986 | 0.9189<br>0.8882 | 0.9164 | Ave | | 0.8984 | | | | 2.7 | | 20.0 | | | |
| Malononitrile | 2.3806 | 2.4456<br>2.3982 | 2.5171<br>2.4840 | 2.5915<br>2.4204 | 2.5867 | Ave | | 2.4780 | | | | 3.3 | | 20.0 | | | |
| Benzaldehyde | 1.8305<br>1.2726 | 1.8884<br>1.1371 | 1.8274<br>1.1518 | 1.8506<br>+++++ | 1.6699 | Qua | 0.5657 | 1.3843 | -0.014 | | 0.0100 | | | | 0.9930 | | 0.9900 |
| Benzoic acid | 0.2161 | +++++<br>0.2372 | +++++<br>0.2364 | 0.1202<br>0.2403 | 0.1970 | Qua | -0.539 | 0.2491 | 0 | | | | | | 1.0000 | | 0.9900 |
| Phenol | 2.1831 | 2.2650<br>2.2133 | 2.2272<br>2.3370 | 2.2872<br>2.2810 | 2.3340 | Ave | | 2.2660 | | | 0.8000 | 2.4 | | 20.0 | | | |
| Aniline | 2.7922 | 2.8756<br>2.8271 | 2.7843<br>2.9373 | 2.9065<br>3.0288 | 2.9320 | Ave | | 2.8855 | | | | 2.9 | | 20.0 | | | |
| Bis(2-chloroethyl)ether | 1.7299 | 1.9191<br>1.7441 | 1.8698<br>1.9679 | 1.8758<br>1.8264 | 1.8977 | Ave | | 1.8538 | | | 0.7000 | 4.5 | | 20.0 | | | |
| 2-Chlorophenol | 1.3413 | 1.4108<br>1.3461 | 1.3627<br>1.4556 | 1.4643<br>1.3949 | 1.4099 | Ave | | 1.3982 | | | 0.8000 | 3.3 | | 20.0 | | | |
| 1,3-Dichlorobenzene | 1.5141 | 1.6399<br>1.5063 | 1.5071<br>1.6001 | 1.5760<br>1.5616 | 1.5843 | Ave | | 1.5612 | | | | 3.1 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-14454-1  Analy Batch No.: 56877

SDG No.:

Instrument ID: A4HP9  GC Column: RXI-5SILMS  ID: 0.45(mm)  Heated Purge: (Y/N) N

Calibration Start Date: 09/06/2012 11:13  Calibration End Date: 09/06/2012 13:49  Calibration ID: 11220

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 1,4-Dichlorobenzene | 1.4984 | 1.6394<br>1.5116 | 1.5510<br>1.6118 | 1.5613<br>1.5573 | 1.5600 | Ave | | 1.5614 | | | | 3.0 | | 20.0 | | | |
| Benzyl alcohol | 1.0600 | 1.0680<br>1.0867 | 1.0479<br>1.1709 | 1.1153<br>1.1307 | 1.1296 | Ave | | 1.1011 | | | | 3.9 | | 20.0 | | | |
| 1,2-Dichlorobenzene | 1.4245 | 1.4669<br>1.4241 | 1.4269<br>1.5422 | 1.4548<br>1.4891 | 1.5079 | Ave | | 1.4671 | | | | 3.0 | | 20.0 | | | |
| 2-Methylphenol | 1.4906 | 1.5154<br>1.5167 | 1.5165<br>1.6011 | 1.5600<br>1.5824 | 1.5778 | Ave | | 1.5451 | | | 0.7000 | 2.6 | | 20.0 | | | |
| 2,2'-oxybis[1-chloropropane] | 1.7599 | 1.9165<br>1.7338 | 1.8129<br>1.8844 | 1.8430<br>1.8161 | 1.8303 | Ave | | 1.8246 | | | | 3.3 | | 20.0 | | | |
| 3 & 4 Methylphenol | 1.6022 | 1.5855<br>1.6231 | 1.5189<br>1.7083 | 1.6372<br>1.6706 | 1.6846 | Ave | | 1.6288 | | | | 3.7 | | 20.0 | | | |
| N-Nitrosodi-n-propylamine | 1.5016 | 1.5858<br>1.5038 | 1.5113<br>1.5961 | 1.5888<br>1.5422 | 1.5965 | Ave | | 1.5533 | | | 0.5000 | 2.8 | | 20.0 | | | |
| Acetophenone | 2.2429 | 2.3540<br>2.2681 | 2.2066<br>2.4082 | 2.3531<br>2.3353 | 2.3425 | Ave | | 2.3138 | | | 0.0100 | 2.9 | | 20.0 | | | |
| 2,4-Toluene diamine | 0.2024 | 0.3267<br>0.1645 | 0.3264<br>+++++ | 0.3584<br>+++++ | 0.2965 | Qua | 0.0653 | 0.3123 | -0.010 | | | | | | 0.9910 | | 0.9900 |
| Hexachloroethane | 0.6096 | 0.6244<br>0.6122 | 0.6243<br>0.6601 | 0.6479<br>0.6501 | 0.6374 | Ave | | 0.6332 | | | 0.3000 | 2.9 | | 20.0 | | | |
| Nitrobenzene | 0.5422 | 0.5732<br>0.5427 | 0.5493<br>0.5708 | 0.5780<br>0.5569 | 0.5743 | Ave | | 0.5609 | | | 0.2000 | 2.7 | | 20.0 | | | |
| Isophorone | 0.9513 | 0.9949<br>0.9596 | 0.9390<br>0.9989 | 1.0137<br>0.9555 | 0.9989 | Ave | | 0.9765 | | | 0.4000 | 2.9 | | 20.0 | | | |
| 2-Nitrophenol | 0.1897 | 0.1741<br>0.1922 | 0.1780<br>0.2006 | 0.1938<br>0.1939 | 0.1978 | Ave | | 0.1900 | | | 0.1000 | 4.9 | | 20.0 | | | |
| 2,4-Dimethylphenol | 0.4360 | 0.4498<br>0.4383 | 0.4369<br>0.4562 | 0.4627<br>0.4406 | 0.4592 | Ave | | 0.4474 | | | 0.2000 | 2.4 | | 20.0 | | | |
| 1,3,5-Trichlorobenzene | 0.3265 | 0.3449<br>0.3308 | 0.3286<br>0.3505 | 0.3417<br>0.3387 | 0.3324 | Ave | | 0.3368 | | | | 2.5 | | 20.0 | | | |
| Bis(2-chloroethoxy)methane | 0.5110 | 0.5540<br>0.5096 | 0.5096<br>0.5382 | 0.5515<br>0.5183 | 0.5389 | Ave | | 0.5289 | | | 0.3000 | 3.6 | | 20.0 | | | |
| 2,4-Dichlorophenol | 0.2834 | 0.2836<br>0.2875 | 0.2798<br>0.3008 | 0.2999<br>0.2910 | 0.2946 | Ave | | 0.2901 | | | 0.2000 | 2.7 | | 20.0 | | | |
| 1,2,4-Trichlorobenzene | 0.3172 | 0.3320<br>0.3233 | 0.3192<br>0.3419 | 0.3336<br>0.3317 | 0.3278 | Ave | | 0.3283 | | | | 2.5 | | 20.0 | | | |
| Naphthalene | 1.0364<br>1.0399 | 1.0701<br>1.0401 | 1.0123<br>1.0851 | 1.0632<br>1.0572 | 1.0672 | Ave | | 1.0524 | | | 0.7000 | 2.1 | | 20.0 | | | |
| 4-Chloroaniline | 0.4424 | 0.4617<br>0.4420 | 0.4320<br>0.4475 | 0.4555<br>0.4314 | 0.4773 | Ave | | 0.4487 | | | 0.0100 | 3.5 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-14454-1  Analy Batch No.: 56877

SDG No.:

Instrument ID: A4HP9  GC Column: RXI-5SILMS  ID: 0.45(mm)  Heated Purge: (Y/N) N

Calibration Start Date: 09/06/2012 11:13  Calibration End Date: 09/06/2012 13:49  Calibration ID: 11220

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Hexachlorobutadiene | 0.1845 | 0.1859<br>0.1882 | 0.1799<br>0.1971 | 0.1884<br>0.1897 | 0.1870 | Ave | | 0.1876 | | | 0.0100 | 2.6 | | 20.0 | | | |
| 1,2,3-Trichlorobenzene | 0.2987 | 0.3025<br>0.2978 | 0.2954<br>0.3207 | 0.3057<br>0.3065 | 0.3097 | Ave | | 0.3046 | | | | 2.7 | | 20.0 | | | |
| Caprolactam | 0.1371 | 0.1238<br>0.1387 | 0.1231<br>0.1457 | 0.1370<br>0.1355 | 0.1411 | Ave | | 0.1352 | | | 0.0100 | 5.9 | | 20.0 | | | |
| 4-Chloro-3-methylphenol | 0.3793 | 0.3742<br>0.3853 | 0.3670<br>0.4040 | 0.3980<br>0.3855 | 0.3954 | Ave | | 0.3861 | | | 0.2000 | 3.2 | | 20.0 | | | |
| 2-Methylnaphthalene | 0.6787<br>0.6695 | 0.6794<br>0.6763 | 0.6518<br>0.7080 | 0.6905<br>0.6786 | 0.6877 | Ave | | 0.6801 | | | 0.4000 | 2.3 | | 20.0 | | | |
| 2,4-Dinitrophenol | 0.2069 | +++++<br>0.2158 | 0.1151<br>0.2240 | 0.1484<br>0.2241 | 0.1908 | Qua | -0.256 | 0.2163 | 0.0003 | | 0.0100 | | | | 1.0000 | | 0.9900 |
| 1-Methylnaphthalene | 0.6420<br>0.6440 | 0.6491<br>0.6497 | 0.6455<br>0.6817 | 0.6666<br>0.6482 | 0.6468 | Ave | | 0.6526 | | | | 2.0 | | 20.0 | | | |
| 1,2,3,5-Tetrachlorobenzene | 0.5360 | 0.5422<br>0.5461 | 0.5091<br>0.5900 | 0.5439<br>0.5764 | 0.5475 | Ave | | 0.5489 | | | | 4.5 | | 20.0 | | | |
| Hexachlorocyclopentadiene | 0.3661 | 0.3316<br>0.3773 | 0.3355<br>0.4150 | 0.3680<br>0.4053 | 0.3894 | Ave | | 0.3735 | | | 0.0500 | 8.0 | | 20.0 | | | |
| 2,3,5,6-Tetrachlorophenol | 0.3108 | +++++<br>0.3197 | 0.2752<br>0.3455 | 0.2906<br>0.3333 | 0.3186 | Ave | | 0.3134 | | | | 7.7 | | 20.0 | | | |
| 2,4,6-Trichlorophenol | 0.3442 | 0.3436<br>0.3583 | 0.3159<br>0.3616 | 0.3346<br>0.3506 | 0.3621 | Ave | | 0.3464 | | | 0.2000 | 4.5 | | 20.0 | | | |
| 2,4,5-Trichlorophenol | 0.3525 | 0.3454<br>0.3469 | 0.3664<br>0.3876 | 0.3655<br>0.3779 | 0.3697 | Ave | | 0.3640 | | | 0.2000 | 4.1 | | 20.0 | | | |
| 1,1'-Biphenyl | 1.3930<br>1.3244 | 1.4253<br>1.3544 | 1.3331<br>1.4494 | 1.3964<br>1.4102 | 1.3817 | Ave | | 1.3853 | | | 0.0100 | 3.0 | | 20.0 | | | |
| 1,2,3,4 -Tetrachlorobenzene | 0.5143 | 0.5272<br>0.5221 | 0.5058<br>0.5597 | 0.5133<br>0.5449 | 0.5219 | Ave | | 0.5262 | | | | 3.4 | | 20.0 | | | |
| 2-Chloronaphthalene | 1.0551<br>1.0332 | 1.0847<br>1.0490 | 1.0524<br>1.1144 | 1.0623<br>1.0915 | 1.0716 | Ave | | 1.0683 | | | 0.8000 | 2.3 | | 20.0 | | | |
| 4,6-Dinitro-2-methylphenol | 0.1454 | +++++<br>0.1538 | 0.1098<br>0.1654 | 0.1360<br>0.1596 | 0.1556 | Ave | | 0.1465 | | | 0.0100 | 13.0 | | 20.0 | | | |
| 2-Nitroaniline | 0.4464 | 0.4590<br>0.4592 | 0.4387<br>0.4800 | 0.4617<br>0.4664 | 0.4711 | Ave | | 0.4603 | | | 0.0100 | 2.9 | | 20.0 | | | |
| Dimethyl phthalate | 1.2151 | 1.2629<br>1.2333 | 1.2008<br>1.3017 | 1.2429<br>1.2557 | 1.2581 | Ave | | 1.2463 | | | 0.0100 | 2.5 | | 20.0 | | | |
| 2,6-Dinitrotoluene | 0.2890 | 0.2623<br>0.2970 | 0.2557<br>0.3105 | 0.2863<br>0.3009 | 0.2921 | Ave | | 0.2867 | | | | 6.5 | | 20.0 | | | |
| 1,2-Dinitrobenzene | 0.1436 | 0.1296<br>0.1489 | 0.1350<br>0.1587 | 0.1434<br>0.1528 | 0.1513 | Ave | | 0.1454 | | | | 6.6 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-14454-1 Analy Batch No.: 56877

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/06/2012 11:13 Calibration End Date: 09/06/2012 13:49 Calibration ID: 11220

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Acenaphthylene | 1.7235<br>1.7378 | 1.7604<br>1.7622 | 1.7275<br>1.8694 | 1.7818<br>1.8176 | 1.7961 | Ave | | 1.7751 | | | 0.9000 | 2.7 | | 20.0 | | | |
| 3-Nitroaniline | 0.3104 | 0.2914<br>0.3198 | 0.2960<br>0.3355 | 0.3295<br>0.3224 | 0.3264 | Ave | | 0.3164 | | | 0.0100 | 5.0 | | 20.0 | | | |
| Acenaphthene | 1.0332<br>1.0663 | 1.1306<br>1.0773 | 1.0582<br>1.1366 | 1.0880<br>1.1112 | 1.1001 | Ave | | 1.0891 | | | 0.9000 | 3.1 | | 20.0 | | | |
| 4-Nitrophenol | 0.1967 | 0.1797<br>0.2028 | 0.1983<br>0.2201 | 0.2114<br>0.2116 | 0.2207 | Ave | | 0.2052 | | | | 6.7 | | 20.0 | | | |
| 2,4-Dinitrotoluene | 0.3906 | 0.3575<br>0.4018 | 0.3610<br>0.4228 | 0.3793<br>0.4065 | 0.4051 | Ave | | 0.3906 | | | 0.2000 | 5.9 | | 20.0 | | | |
| Dibenzofuran | 1.5449<br>1.5030 | 1.5896<br>1.5289 | 1.4721<br>1.6194 | 1.5459<br>1.5648 | 1.5463 | Ave | | 1.5461 | | | 0.8000 | 2.8 | | 20.0 | | | |
| Diethyl phthalate | 1.2067 | 1.2252<br>1.2304 | 1.1808<br>1.2923 | 1.2092<br>1.2547 | 1.2488 | Ave | | 1.2310 | | | 0.0100 | 2.8 | | 20.0 | | | |
| 4-Chlorophenyl phenyl ether | 0.6088 | 0.6094<br>0.6302 | 0.5835<br>0.6705 | 0.6069<br>0.6406 | 0.6257 | Ave | | 0.6219 | | | 0.4000 | 4.2 | | 20.0 | | | |
| 4-Nitroaniline | 0.3341 | 0.3053<br>0.3414 | 0.3186<br>0.3607 | 0.3358<br>0.3548 | 0.3429 | Ave | | 0.3367 | | | 0.0100 | 5.4 | | 20.0 | | | |
| Fluorene | 1.2316<br>1.2752 | 1.2973<br>1.2906 | 1.2430<br>1.3482 | 1.2928<br>1.3148 | 1.3010 | Ave | | 1.2883 | | | 0.9000 | 2.7 | | 20.0 | | | |
| N-Nitrosodiphenylamine | 0.5541 | 0.5704<br>0.5614 | 0.5369<br>0.6040 | 0.5604<br>0.5794 | 0.5580 | Ave | | 0.5656 | | | 0.0100 | 3.5 | | 20.0 | | | |
| 1,2-Diphenylhydrazine(as Azobenzene) | 1.0698 | 1.1610<br>1.0794 | 1.1131<br>1.1655 | 1.1582<br>1.1239 | 1.1605 | Ave | | 1.1298 | | | | 3.4 | | 20.0 | | | |
| Azobenzene | 1.0697 | 1.1610<br>1.0796 | 1.1191<br>1.1653 | 1.1589<br>1.1239 | 1.1609 | Ave | | 1.1298 | | | | 3.4 | | 20.0 | | | |
| 4-Bromophenyl phenyl ether | 0.2041 | 0.2049<br>0.2083 | 0.1918<br>0.2267 | 0.2119<br>0.2183 | 0.2120 | Ave | | 0.2097 | | | 0.1000 | 4.9 | | 20.0 | | | |
| Hexachlorobenzene | 0.1842<br>0.1949 | 0.1925<br>0.1992 | 0.1776<br>0.2146 | 0.1947<br>0.2070 | 0.1957 | Ave | | 0.1956 | | | 0.1000 | 5.6 | | 20.0 | | | |
| Atrazine | 0.1866 | 0.1900<br>0.1892 | 0.1905<br>0.2022 | 0.1998<br>0.1921 | 0.1983 | Ave | | 0.1936 | | | 0.0100 | 2.9 | | 20.0 | | | |
| Pentachlorophenol | 0.1420 | 0.0821<br>0.1550 | 0.1129<br>0.1651 | 0.1226<br>0.1638 | 0.1459 | Qua | -0.077 | 0.1437 | 0.0005 | | 0.0500 | | | | 0.9990 | | 0.9900 |
| Phenanthrene | 1.1287<br>1.0872 | 1.1364<br>1.1056 | 1.0823<br>1.2020 | 1.1378<br>1.1429 | 1.1427 | Ave | | 1.1295 | | | 0.7000 | 3.2 | | 20.0 | | | |
| Anthracene | 1.1220<br>1.1358 | 1.1466<br>1.1605 | 1.1059<br>1.2591 | 1.1849<br>1.2065 | 1.2007 | Ave | | 1.1691 | | | 0.7000 | 4.1 | | 20.0 | | | |
| Carbazole | 1.0228 | 1.0499<br>1.0453 | 1.0116<br>1.1263 | 1.0637<br>1.0704 | 1.0702 | Ave | | 1.0575 | | | 0.0100 | 3.3 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-14454-1  Analy Batch No.: 56877

SDG No.:

Instrument ID: A4HP9  GC Column: RXI-5SILMS  ID: 0.45(mm)  Heated Purge: (Y/N) N

Calibration Start Date: 09/06/2012 11:13  Calibration End Date: 09/06/2012 13:49  Calibration ID: 11220

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Di-n-butyl phthalate | 1.2419 | 1.2257<br>1.2696 | 1.1933<br>1.3724 | 1.2509<br>1.3001 | 1.3093 | Ave | | 1.2704 | | | 0.0100 | 4.4 | | 20.0 | | | |
| Fluoranthene | 1.1671<br>1.2132 | 1.1856<br>1.2423 | 1.1611<br>1.3355 | 1.2455<br>1.2759 | 1.2508 | Ave | | 1.2308 | | | 0.6000 | 4.5 | | 20.0 | | | |
| Benzidine | 0.6272 | 0.5812<br>0.6329 | 0.5986<br>0.6778 | 0.6959<br>0.6249 | 0.6737 | Ave | | 0.6390 | | | | 6.3 | | 20.0 | | | |
| Pyrene | 1.1815<br>1.2015 | 1.2343<br>1.2168 | 1.1800<br>1.3155 | 1.2883<br>1.2702 | 1.2449 | Ave | | 1.2370 | | | 0.6000 | 3.8 | | 20.0 | | | |
| Butyl benzyl phthalate | 0.5283 | 0.4943<br>0.5316 | 0.5101<br>0.5682 | 0.5630<br>0.5563 | 0.5652 | Ave | | 0.5396 | | | 0.0100 | 5.2 | | 20.0 | | | |
| 3,3'-Dimethoxybenzidine | 0.3030 | 0.2364<br>0.3177 | 0.2653<br>0.3446 | 0.2985<br>0.3288 | 0.3157 | Ave | | 0.3013 | | | | 12.0 | | 20.0 | | | |
| Bis(2-ethylhexyl) phthalate | 0.7367 | 0.6946<br>0.7378 | 0.7032<br>0.7934 | 0.7640<br>0.7666 | 0.7832 | Ave | | 0.7474 | | | 0.0100 | 4.8 | | 20.0 | | | |
| 4,4'-Methylene bis(2-chloroaniline) | 0.2360 | 0.2062<br>0.2363 | 0.2142<br>0.2537 | 0.2428<br>0.2481 | 0.2421 | Ave | | 0.2349 | | | | 7.0 | | 20.0 | | | |
| 3,3'-Dichlorobenzidine | 0.4302 | 0.3958<br>0.4418 | 0.4017<br>0.4762 | 0.4363<br>0.4551 | 0.4401 | Ave | | 0.4346 | | | 0.0100 | 6.1 | | 20.0 | | | |
| Benzo[a]anthracene | 1.2266<br>1.1816 | 1.2278<br>1.2032 | 1.1825<br>1.2515 | 1.2066<br>1.3113 | 1.2040 | Ave | | 1.2217 | | | 0.8000 | 3.3 | | 20.0 | | | |
| Chrysene | 1.1139<br>1.0455 | 1.0817<br>1.0817 | 1.0149<br>1.1675 | 1.1252<br>1.0869 | 1.0888 | Ave | | 1.0896 | | | 0.7000 | 4.0 | | 20.0 | | | |
| Di-n-octyl phthalate | 1.5078 | 1.2290<br>1.5557 | 1.3472<br>1.6864 | 1.5435<br>1.6102 | 1.6198 | Ave | | 1.5125 | | | 0.0100 | 10.0 | | 20.0 | | | |
| Benzo[b]fluoranthene | 1.2742<br>1.4608 | 1.3257<br>1.4867 | 1.3918<br>1.6178 | 1.5448<br>1.6134 | 1.5525 | Ave | | 1.4742 | | | 0.7000 | 8.3 | | 20.0 | | | |
| Benzo[k]fluoranthene | 1.1829<br>1.2610 | 1.2504<br>1.2859 | 1.2154<br>1.4163 | 1.2595<br>1.2914 | 1.2321 | Ave | | 1.2661 | | | 0.7000 | 5.2 | | 20.0 | | | |
| Benzo[a]pyrene | 1.0940<br>1.2360 | 1.1280<br>1.2535 | 1.1518<br>1.3695 | 1.2210<br>1.3066 | 1.2588 | Ave | | 1.2244 | | | 0.7000 | 7.2 | | 20.0 | | | |
| Indeno[1,2,3-cd]pyrene | 0.9961<br>1.3067 | 1.1845<br>1.3344 | 1.1810<br>1.4604 | 1.3412<br>1.3864 | 1.3460 | Ave | | 1.2818 | | | 0.5000 | 11.0 | | 20.0 | | | |
| Dibenzo(a,h)anthracene | 0.8304<br>1.0908 | 0.9400<br>1.1158 | 0.9706<br>1.2233 | 1.1051<br>1.1749 | 1.1277 | Ave | | 1.0643 | | | 0.4000 | 12.0 | | 20.0 | | | |
| Benzo[g,h,i]perylene | 0.8819<br>1.0850 | 0.9962<br>1.1068 | 0.9868<br>1.2069 | 1.1059<br>1.1401 | 1.1126 | Ave | | 1.0691 | | | 0.5000 | 9.1 | | 20.0 | | | |
| 2-Fluorophenol (Surr) | 1.4461 | 1.4516<br>1.4338 | 1.4294<br>1.4982 | 1.4997<br>1.5189 | 1.5020 | Ave | | 1.4725 | | | | 2.4 | | 20.0 | | | |
| Phenol-d5 (Surr) | 2.0014 | 2.0648<br>2.0209 | 2.0036<br>2.1738 | 2.0977<br>2.0976 | 2.1208 | Ave | | 2.0726 | | | | 3.0 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton  Job No.: 240-14454-1  Analy Batch No.: 56877

SDG No.:

Instrument ID: A4HP9  GC Column: RXI-5SILMS  ID: 0.45(mm)  Heated Purge: (Y/N) N

Calibration Start Date: 09/06/2012 11:13  Calibration End Date: 09/06/2012 13:49  Calibration ID: 11220

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Nitrobenzene-d5 (Surr) | 0.5522<br>0.5547 | 0.5735<br>0.5523 | 0.5654<br>0.5821 | 0.5931<br>0.5674 | 0.5863 | Ave | | 0.5697 | | | | 2.7 | | 20.0 | | | |
| 2-Fluorobiphenyl (Surr) | 1.2071<br>1.2289 | 1.2660<br>1.2563 | 1.2386<br>1.3309 | 1.2676<br>1.2950 | 1.2859 | Ave | | 1.2641 | | | | 2.9 | | 20.0 | | | |
| 2,4,6-Tribromophenol (Surr) | <br>0.1405 | 0.1283<br>0.1472 | 0.1183<br>0.1584 | 0.1357<br>0.1530 | 0.1398 | Ave | | 0.1402 | | | | 9.3 | | 20.0 | | | |
| Terphenyl-d14 (Surr) | 0.7040<br>0.7718 | 0.7537<br>0.7852 | 0.7248<br>0.8464 | 0.8040<br>0.8282 | 0.7931 | Ave | | 0.7790 | | | | 5.9 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-14454-1 Analy Batch No.: 56877

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/06/2012 11:13 Calibration End Date: 09/06/2012 13:49 Calibration ID: 11220

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-56877/6 | 20906006.D |
| Level 2 | STD2 240-56877/5 | 20906005.D |
| Level 3 | STD3 240-56877/4 | 20906004.D |
| Level 4 | STD4 240-56877/3 | 20906003.D |
| Level 5 | STD5 240-56877/2 | 20906002.D |
| Level 6 | STD6 240-56877/10 | 20906010.D |
| Level 7 | STD7 240-56877/9 | 20906009.D |
| Level 8 | STD8 240-56877/8 | 20906008.D |
| Level 9 | STD9 240-56877/7 | 20906007.D |

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (NG/UL) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1 LVL 6 | LVL 2 LVL 7 | LVL 3 LVL 8 | LVL 4 LVL 9 | LVL 5 | LVL 6 | LVL 2 LVL 7 | LVL 3 LVL 8 | LVL 4 LVL 9 | LVL 5 |
| 1,4-Dioxane | DCB | Ave | 419572 | 23279 624649 | 43143 665000 | 79042 874342 | 203634 | 10.0 | 0.500 15.0 | 1.00 20.0 | 2.00 25.0 | 5.00 |
| N-Nitrosodimethylamine | DCB | Ave | 759364 | 39649 1146388 | 74963 1204727 | 146273 1533621 | 375585 | 10.0 | 0.500 15.0 | 1.00 20.0 | 2.00 25.0 | 5.00 |
| Pyridine | DCB | Ave | 1165046 | 60941 1734234 | 119165 1886251 | 216921 2406079 | 575659 | 10.0 | 0.500 15.0 | 1.00 20.0 | 2.00 25.0 | 5.00 |
| Ethyl methacrylate | DCB | Ave | 1022071 | 57998 1511956 | 109335 1586832 | 200523 2059043 | 504480 | 10.0 | 0.500 15.0 | 1.00 20.0 | 2.00 25.0 | 5.00 |
| 3-Chloropropionitrile | DCB | Ave | 468974 | 26367 701007 | 50268 739746 | 91813 944605 | 229776 | 10.0 | 0.500 15.0 | 1.00 20.0 | 2.00 25.0 | 5.00 |
| Malononitrile | DCB | Ave | 1285532 | 69483 1952520 | 139469 2044990 | 258920 2574291 | 648551 | 10.0 | 0.500 15.0 | 1.00 20.0 | 2.00 25.0 | 5.00 |
| Benzaldehyde | DCB | Qua | 10194 687232 | 53652 925789 | 101255 948213 | 184900 +++++ | 418701 | 0.100 10.0 | 0.500 15.0 | 1.00 20.0 | 2.00 +++++ | 5.00 |
| Benzoic acid | NPT | Qua | 921836 | +++++ 1533572 | +++++ 1569232 | 92647 2068363 | 391841 | 20.0 | +++++ 30.0 | +++++ 40.0 | 4.00 50.0 | 10.0 |
| Phenol | DCB | Ave | 1178928 | 64352 1802014 | 123406 1923988 | 228522 2426029 | 585186 | 10.0 | 0.500 15.0 | 1.00 20.0 | 2.00 25.0 | 5.00 |
| Aniline | DCB | Ave | 1507807 | 81700 2301680 | 154273 2418127 | 290394 3221370 | 735140 | 10.0 | 0.500 15.0 | 1.00 20.0 | 2.00 25.0 | 5.00 |
| Bis(2-chloroethyl)ether | DCB | Ave | 934152 | 54523 1419998 | 103603 1620086 | 187413 1942486 | 475810 | 10.0 | 0.500 15.0 | 1.00 20.0 | 2.00 25.0 | 5.00 |
| 2-Chlorophenol | DCB | Ave | 724318 | 40081 1095968 | 75506 1198349 | 146302 1483567 | 353504 | 10.0 | 0.500 15.0 | 1.00 20.0 | 2.00 25.0 | 5.00 |
| 1,3-Dichlorobenzene | DCB | Ave | 817629 | 46591 1226397 | 83505 1317284 | 157461 1660809 | 397239 | 10.0 | 0.500 15.0 | 1.00 20.0 | 2.00 25.0 | 5.00 |
| 1,4-Dichlorobenzene | DCB | Ave | 809166 | 46577 1230715 | 85940 1326892 | 155995 1656271 | 391136 | 10.0 | 0.500 15.0 | 1.00 20.0 | 2.00 25.0 | 5.00 |

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-14454-1 Analy Batch No.: 56877

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/06/2012 11:13 Calibration End Date: 09/06/2012 13:49 Calibration ID: 11220

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (NG/UL) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 |
| Benzyl alcohol | DCB | Ave | 572404 | 30342<br>884771 | 58062<br>963944 | 111433<br>1202604 | 283233 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 1,2-Dichlorobenzene | DCB | Ave | 769260 | 41675<br>1159466 | 79063<br>1269639 | 145354<br>1583783 | 378084 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 2-Methylphenol | DCB | Ave | 804956 | 43055<br>1234796 | 84029<br>1318154 | 155868<br>1682962 | 395591 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 2,2'-oxybis[1-chloropropane] | DCB | Ave | 950387 | 54449<br>1411579 | 100452<br>1551358 | 184136<br>1931561 | 458907 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 3 & 4 Methylphenol | DCB | Ave | 865215 | 45045<br>1321453 | 84157<br>1406386 | 163575<br>1776736 | 422377 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| N-Nitrosodi-n-propylamine | DCB | Ave | 810906 | 45054<br>1224348 | 83740<br>1313993 | 158736<br>1640229 | 400298 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Acetophenone | DCB | Ave | 1211181 | 66880<br>1846624 | 122264<br>1982559 | 235103<br>2483748 | 587327 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 2,4-Toluene diamine | NPT | Qua | 431732 | 36448<br>531706 | 70317<br>+++++ | 138171<br>+++++ | 294823 | 10.0 | 0.500<br>15.0 | 1.00<br>+++++ | 2.00<br>+++++ | 5.00 |
| Hexachloroethane | DCB | Ave | 329194 | 17740<br>498404 | 34591<br>543446 | 64736<br>691370 | 159819 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Nitrobenzene | NPT | Ave | 1156382 | 63944<br>1754184 | 118340<br>1894368 | 222827<br>2396856 | 571100 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Isophorone | NPT | Ave | 2028904 | 110989<br>3101555 | 202304<br>3315248 | 390829<br>4112791 | 993340 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 2-Nitrophenol | NPT | Ave | 404532 | 19425<br>621321 | 38344<br>665598 | 74733<br>834630 | 196662 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 2,4-Dimethylphenol | NPT | Ave | 929826 | 50176<br>1416590 | 94113<br>1513991 | 178401<br>1896430 | 456619 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 1,3,5-Trichlorobenzene | NPT | Ave | 696336 | 38472<br>1069280 | 70791<br>1163328 | 131748<br>1458011 | 330520 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Bis(2-chloroethoxy)methane | NPT | Ave | 1089864 | 61804<br>1646903 | 109785<br>1786324 | 212611<br>2230829 | 535927 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 2,4-Dichlorophenol | NPT | Ave | 604444 | 31633<br>929127 | 60278<br>998423 | 115613<br>1252370 | 292933 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 1,2,4-Trichlorobenzene | NPT | Ave | 676502 | 37040<br>1044855 | 68774<br>1134734 | 128603<br>1427887 | 326017 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Naphthalene | NPT | Ave | 22367<br>2217873 | 119379<br>3361803 | 218082<br>3601342 | 409892<br>4550327 | 1061263 | 0.100<br>10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 4-Chloroaniline | NPT | Ave | 943605 | 51502<br>1428568 | 93066<br>1485266 | 175594<br>1856939 | 474629 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| Hexachlorobutadiene | NPT | Ave | 393538 | 20740<br>608233 | 38749<br>654253 | 72650<br>816318 | 185952 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |
| 1,2,3-Trichlorobenzene | NPT | Ave | 637086 | 33742<br>962604 | 63633<br>1064314 | 117850<br>1319198 | 307946 | 10.0 | 0.500<br>15.0 | 1.00<br>20.0 | 2.00<br>25.0 | 5.00 |

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-14454-1 Analy Batch No.: 56877

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/06/2012 11:13 Calibration End Date: 09/06/2012 13:49 Calibration ID: 11220

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (NG/UL) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 |
| Caprolactam | NPT | Ave | | 13809 | 26513 | 52819 | 140341 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 292310 | 448314 | 483480 | 583001 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 4-Chloro-3-methylphenol | NPT | Ave | | 41749 | 79063 | 153451 | 393201 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 809051 | 1245384 | 1340682 | 1659155 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 2-Methylnaphthalene | NPT | Ave | 14647 | 75789 | 140415 | 266212 | 683935 | 0.100 | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 1427904 | 2185853 | 2349774 | 2920803 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 2,4-Dinitrophenol | ANT | Qua | | +++++ | 30248 | 71049 | 231644 | | +++++ | 2.00 | 4.00 | 10.0 |
| | | | 546934 | 865338 | 907114 | 1158684 | | 20.0 | 30.0 | 40.0 | 50.0 | |
| 1-Methylnaphthalene | NPT | Ave | 13855 | 72406 | 139071 | 257000 | 643242 | 0.100 | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 1373426 | 2099855 | 2262323 | 2789959 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 1,2,3,5-Tetrachlorobenzene | ANT | Ave | | 36641 | 66886 | 130217 | 332332 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 708492 | 1095094 | 1194459 | 1489897 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| Hexachlorocyclopentadiene | ANT | Ave | | 22404 | 44083 | 88114 | 236379 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 483983 | 756591 | 840124 | 1047509 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 2,3,5,6-Tetrachlorophenol | ANT | Ave | | +++++ | 36157 | 69590 | 193360 | | +++++ | 1.00 | 2.00 | 5.00 |
| | | | 410843 | 641192 | 699443 | 861565 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 2,4,6-Trichlorophenol | ANT | Ave | | 23219 | 41510 | 80123 | 219772 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 455026 | 718602 | 732011 | 906326 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 2,4,5-Trichlorophenol | ANT | Ave | | 23339 | 48144 | 87512 | 224386 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 465979 | 695713 | 784698 | 976766 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 1,1'-Biphenyl | ANT | Ave | 18070 | 96312 | 175164 | 334344 | 838645 | 0.100 | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 1750793 | 2716043 | 2934076 | 3644981 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 1,2,3,4 -Tetrachlorobenzene | ANT | Ave | | 35627 | 66457 | 122896 | 316757 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 679897 | 1046976 | 1133117 | 1408401 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 2-Chloronaphthalene | ANT | Ave | 13686 | 73296 | 138278 | 254359 | 650437 | 0.100 | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 1365864 | 2103673 | 2255902 | 2821336 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 4,6-Dinitro-2-methylphenol | PHN | Ave | | +++++ | 23767 | 52416 | 152772 | | +++++ | 1.00 | 2.00 | 5.00 |
| | | | 320207 | 516332 | 548422 | 682713 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 2-Nitroaniline | ANT | Ave | | 31015 | 57638 | 110559 | 285959 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 590097 | 920772 | 971673 | 1205601 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| Dimethyl phthalate | ANT | Ave | | 85341 | 157778 | 297585 | 763626 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 1606215 | 2473182 | 2635126 | 3245655 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 2,6-Dinitrotoluene | ANT | Ave | | 17725 | 33598 | 68542 | 177265 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 382091 | 595541 | 628574 | 777738 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 1,2-Dinitrobenzene | ANT | Ave | | 8757 | 17741 | 34336 | 91841 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 189879 | 298615 | 321167 | 395054 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| Acenaphthylene | ANT | Ave | 22357 | 118955 | 226976 | 426626 | 1090167 | 0.100 | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 2297282 | 3533944 | 3784320 | 4698037 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 3-Nitroaniline | ANT | Ave | | 19690 | 38897 | 78900 | 198121 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 410362 | 641308 | 679100 | 833279 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| Acenaphthene | ANT | Ave | 13403 | 76397 | 139043 | 260506 | 667716 | 0.100 | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 1409544 | 2160352 | 2300796 | 2872293 | | 10.0 | 15.0 | 20.0 | 25.0 | |

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-14454-1 Analy Batch No.: 56877

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/06/2012 11:13 Calibration End Date: 09/06/2012 13:49 Calibration ID: 11220

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (NG/UL) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 |
| 4-Nitrophenol | ANT | Ave | | 12145 | 26061 | 50626 | 133954 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 260031 | 406602 | 445568 | 546942 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 2,4-Dinitrotoluene | ANT | Ave | | 24154 | 47428 | 90816 | 245880 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 516303 | 805779 | 855999 | 1050745 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| Dibenzofuran | ANT | Ave | 20040 | 107417 | 193420 | 370151 | 938582 | 0.100 | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 1986790 | 3066119 | 3278305 | 4044561 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| Diethyl phthalate | ANT | Ave | | 82788 | 155145 | 289531 | 757979 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 1595115 | 2467369 | 2616144 | 3243054 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 4-Chlorophenyl phenyl ether | ANT | Ave | | 41180 | 76667 | 145319 | 379756 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 804738 | 1263720 | 1357353 | 1655724 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 4-Nitroaniline | ANT | Ave | | 20629 | 41867 | 80411 | 208109 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 441672 | 684675 | 730213 | 916964 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| Fluorene | ANT | Ave | 15976 | 87662 | 163315 | 309537 | 789674 | 0.100 | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 1685696 | 2588039 | 2729287 | 3398566 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| N-Nitrosodiphenylamine | PHN | Ave | | 63414 | 116230 | 216005 | 547948 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 1220312 | 1884534 | 2002299 | 2478537 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 1,2-Diphenylhydrazine(as Azobenzene) | PHN | Ave | | 129067 | 240996 | 446405 | 1139676 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 2355794 | 3623759 | 3863452 | 4807854 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| Azobenzene | PHN | Ave | | 129067 | 242286 | 446687 | 1140074 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 2355704 | 3624350 | 3862905 | 4807851 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 4-Bromophenyl phenyl ether | PHN | Ave | | 22773 | 41529 | 81663 | 208245 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 449463 | 699234 | 751527 | 933776 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| Hexachlorobenzene | PHN | Ave | 3872 | 21395 | 38446 | 75042 | 192190 | 0.100 | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 429279 | 668803 | 711332 | 885739 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| Atrazine | PHN | Ave | | 21126 | 41248 | 77019 | 194702 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 410916 | 635294 | 670348 | 821919 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| Pentachlorophenol | PHN | Qua | | 18246 | 48879 | 94490 | 286553 | | 1.00 | 2.00 | 4.00 | 10.0 |
| | | | 625384 | 1040503 | 1094390 | 1401647 | | 20.0 | 30.0 | 40.0 | 50.0 | |
| Phenanthrene | PHN | Ave | 23723 | 126329 | 234322 | 438547 | 1122212 | 0.100 | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 2394261 | 3711598 | 3984519 | 4889276 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| Anthracene | PHN | Ave | 23582 | 127464 | 239438 | 456709 | 1179140 | 0.100 | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 2501232 | 3895930 | 4173990 | 5161355 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| Carbazole | PHN | Ave | | 116715 | 219022 | 409981 | 1051042 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 2252290 | 3509318 | 3733503 | 4579268 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| Di-n-butyl phthalate | PHN | Ave | | 136252 | 258344 | 482149 | 1285803 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 2734832 | 4262096 | 4549321 | 5561764 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| Fluoranthene | PHN | Ave | 24530 | 131798 | 251389 | 480053 | 1228325 | 0.100 | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 2671683 | 4170466 | 4427146 | 5458190 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| Benzidine | CRY | Ave | | 66374 | 133388 | 270603 | 681515 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 1433709 | 2225058 | 2343491 | 2775597 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| Pyrene | CRY | Ave | 25434 | 140970 | 262950 | 500932 | 1259318 | 0.100 | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 2746796 | 4277543 | 4548221 | 5642079 | | 10.0 | 15.0 | 20.0 | 25.0 | |

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-14454-1 Analy Batch No.: 56877

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/06/2012 11:13 Calibration End Date: 09/06/2012 13:49 Calibration ID: 11220

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (NG/UL) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 |
| Butyl benzyl phthalate | CRY | Ave | | 56449 | 113668 | 218917 | 571774 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 1207712 | 1868847 | 1964394 | 2470869 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 3,3'-Dimethoxybenzidine | CRY | Ave | | 27002 | 59131 | 116075 | 319384 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 692688 | 1116775 | 1191531 | 1460678 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| Bis(2-ethylhexyl) phthalate | CRY | Ave | | 79329 | 156713 | 297088 | 792225 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 1684205 | 2593658 | 2743125 | 3405235 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 4,4'-Methylene bis(2-chloroaniline) | CRY | Ave | | 23546 | 47734 | 94394 | 244886 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 539491 | 830594 | 877217 | 1102210 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 3,3'-Dichlorobenzidine | CRY | Ave | | 45199 | 89509 | 169632 | 445246 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 983524 | 1553119 | 1646297 | 2021461 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| Benzo[a]anthracene | CRY | Ave | 26405 | 140223 | 263514 | 469165 | 1217942 | 0.100 | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 2701251 | 4229895 | 4327109 | 5824965 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| Chrysene | CRY | Ave | 23979 | 123536 | 226172 | 437514 | 1101409 | 0.100 | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 2390081 | 3802785 | 4036567 | 4827988 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| Di-n-octyl phthalate | PRY | Ave | | 114335 | 242887 | 489992 | 1344725 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 2849640 | 4512968 | 4678127 | 5894890 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| Benzo[b]fluoranthene | PRY | Ave | 22461 | 123333 | 250925 | 490408 | 1288837 | 0.100 | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 2760781 | 4312843 | 4487831 | 5906433 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| Benzo[k]fluoranthene | PRY | Ave | 20853 | 116321 | 219119 | 399833 | 1022888 | 0.100 | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 2383206 | 3730499 | 3928795 | 4727818 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| Benzo[a]pyrene | PRY | Ave | 19285 | 104938 | 207658 | 387613 | 1045060 | 0.100 | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 2335867 | 3636440 | 3799037 | 4783307 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| Indeno[1,2,3-cd]pyrene | PRY | Ave | 17559 | 110194 | 212916 | 425759 | 1117405 | 0.100 | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 2469446 | 3870977 | 4051072 | 5075560 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| Dibenzo(a,h)anthracene | PRY | Ave | 14639 | 87450 | 174986 | 350801 | 936214 | 0.100 | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 2061451 | 3237038 | 3393292 | 4301300 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| Benzo[g,h,i]perylene | PRY | Ave | 15546 | 92677 | 177916 | 351062 | 923625 | 0.100 | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 2050559 | 3210740 | 3347859 | 4173853 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 2-Fluorophenol (Surr) | DCB | Ave | | 41241 | 79201 | 149837 | 376587 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 780891 | 1167311 | 1233417 | 1615457 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| Phenol-d5 (Surr) | DCB | Ave | | 58664 | 111014 | 209589 | 531734 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 1080801 | 1645372 | 1789582 | 2230887 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| Nitrobenzene-d5 (Surr) | NPT | Ave | 11917 | 63981 | 121800 | 228666 | 583093 | 0.100 | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 1183051 | 1785024 | 1931810 | 2442218 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 2-Fluorobiphenyl (Surr) | ANT | Ave | 15658 | 85547 | 162749 | 303503 | 780527 | 0.100 | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 1624557 | 2519452 | 2694248 | 3347310 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| 2,4,6-Tribromophenol (Surr) | ANT | Ave | | 8668 | 15549 | 32495 | 84839 | | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 185781 | 295119 | 320738 | 395523 | | 10.0 | 15.0 | 20.0 | 25.0 | |
| Terphenyl-d14 (Surr) | CRY | Ave | 15155 | 86078 | 161522 | 312617 | 802250 | 0.100 | 0.500 | 1.00 | 2.00 | 5.00 |
| | | | 1764452 | 2760486 | 2926421 | 3678727 | | 10.0 | 15.0 | 20.0 | 25.0 | |

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-14454-1 Analy Batch No.: 56877

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/06/2012 11:13 Calibration End Date: 09/06/2012 13:49 Calibration ID: 11220

Curve Type Legend:

| |
|---|
| Ave = Average ISTD |
| Qua = Quadratic ISTD |

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-14454-1

SDG No.:

Lab Sample ID: ICV 240-56877/11  Calibration Date: 09/06/2012 14:36

Instrument ID: A4HP9  Calib Start Date: 09/06/2012 11:13

GC Column: RXI-5SILMS  ID: 0.45(mm)  Calib End Date: 09/06/2012 13:49

Lab File ID: 20906011.D  Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | Ave | 0.7969 | 0.8107 | | 10.2 | 10.0 | 1.7 | 30.0 |
| N-Nitrosodimethylamine | Ave | 1.429 | 1.434 | | 10.0 | 10.0 | 0.4 | 30.0 |
| Pyridine | Ave | 2.200 | 2.131 | | 9.68 | 10.0 | -3.2 | 30.0 |
| Ethyl methacrylate | Ave | 1.956 | 1.875 | | 9.59 | 10.0 | -4.1 | 30.0 |
| 3-Chloropropionitrile | Ave | 0.8984 | 0.8742 | | 9.73 | 10.0 | -2.7 | 30.0 |
| Malononitrile | Ave | 2.478 | 2.371 | | 9.57 | 10.0 | -4.3 | 30.0 |
| Benzaldehyde | Qua | | 1.293 | 0.0100 | 9.96 | 10.0 | -0.4 | 30.0 |
| Phenol | Ave | 2.266 | 2.158 | 0.8000 | 9.52 | 10.0 | -4.8 | 30.0 |
| Aniline | Ave | 2.885 | 2.748 | | 9.52 | 10.0 | -4.8 | 30.0 |
| Bis(2-chloroethyl)ether | Ave | 1.854 | 1.720 | 0.7000 | 9.28 | 10.0 | -7.2 | 30.0 |
| 2-Chlorophenol | Ave | 1.398 | 1.338 | 0.8000 | 9.57 | 10.0 | -4.3 | 30.0 |
| 1,3-Dichlorobenzene | Ave | 1.561 | 1.485 | | 9.51 | 10.0 | -4.9 | 30.0 |
| 1,4-Dichlorobenzene | Ave | 1.561 | 1.473 | | 9.43 | 10.0 | -5.7 | 30.0 |
| Benzyl alcohol | Ave | 1.101 | 1.050 | | 9.54 | 10.0 | -4.6 | 30.0 |
| 1,2-Dichlorobenzene | Ave | 1.467 | 1.401 | | 9.55 | 10.0 | -4.5 | 30.0 |
| 2-Methylphenol | Ave | 1.545 | 1.483 | 0.7000 | 9.60 | 10.0 | -4.0 | 30.0 |
| 2,2'-oxybis[1-chloropropane] | Ave | 1.825 | 1.747 | | 9.57 | 10.0 | -4.3 | 30.0 |
| 3 & 4 Methylphenol | Ave | 1.629 | 1.572 | | 9.65 | 10.0 | -3.5 | 30.0 |
| N-Nitrosodi-n-propylamine | Ave | 1.553 | 1.491 | 0.5000 | 9.60 | 10.0 | -4.0 | 30.0 |
| Acetophenone | Ave | 2.314 | 2.190 | 0.0100 | 9.47 | 10.0 | -5.3 | 30.0 |
| Hexachloroethane | Ave | 0.6332 | 0.6040 | 0.3000 | 9.54 | 10.0 | -4.6 | 30.0 |
| Nitrobenzene | Ave | 0.5609 | 0.5326 | 0.2000 | 9.49 | 10.0 | -5.1 | 30.0 |
| Isophorone | Ave | 0.9765 | 0.9209 | 0.4000 | 9.43 | 10.0 | -5.7 | 30.0 |
| 2-Nitrophenol | Ave | 0.1900 | 0.1863 | 0.1000 | 9.81 | 10.0 | -1.9 | 30.0 |
| 2,4-Dimethylphenol | Ave | 0.4474 | 0.4262 | 0.2000 | 9.52 | 10.0 | -4.8 | 30.0 |
| 1,3,5-Trichlorobenzene | Ave | 0.3368 | 0.3151 | | 9.36 | 10.0 | -6.4 | 30.0 |
| Bis(2-chloroethoxy)methane | Ave | 0.5289 | 0.4946 | 0.3000 | 9.35 | 10.0 | -6.5 | 30.0 |
| Benzoic acid | Qua | | 0.2111 | | 19.1 | 20.0 | -4.7 | 30.0 |
| 2,4-Dichlorophenol | Ave | 0.2901 | 0.2716 | 0.2000 | 9.36 | 10.0 | -6.4 | 30.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.3283 | 0.3086 | | 9.40 | 10.0 | -6.0 | 30.0 |
| Naphthalene | Ave | 1.052 | 1.005 | 0.7000 | 9.55 | 10.0 | -4.5 | 30.0 |
| 4-Chloroaniline | Ave | 0.4487 | 0.4078 | 0.0100 | 9.09 | 10.0 | -9.1 | 30.0 |
| Hexachlorobutadiene | Ave | 0.1876 | 0.1788 | 0.0100 | 9.53 | 10.0 | -4.7 | 30.0 |
| 1,2,3-Trichlorobenzene | Ave | 0.3046 | 0.2874 | | 9.44 | 10.0 | -5.6 | 30.0 |
| Caprolactam | Ave | 0.1352 | 0.1334 | 0.0100 | 9.86 | 10.0 | -1.4 | 30.0 |
| 4-Chloro-3-methylphenol | Ave | 0.3861 | 0.3692 | 0.2000 | 9.56 | 10.0 | -4.4 | 30.0 |
| 2-Methylnaphthalene | Ave | 0.6801 | 0.6479 | 0.4000 | 9.53 | 10.0 | -4.7 | 30.0 |
| 1-Methylnaphthalene | Ave | 0.6526 | 0.6197 | | 9.50 | 10.0 | -5.0 | 30.0 |
| 1,2,3,5-Tetrachlorobenzene | Ave | 0.5489 | 0.5125 | | 9.34 | 10.0 | -6.6 | 30.0 |
| Hexachlorocyclopentadiene | Ave | 0.3735 | 0.3499 | 0.0500 | 9.37 | 10.0 | -6.3 | 30.0 |
| 2,4,6-Trichlorophenol | Ave | 0.3464 | 0.3169 | 0.2000 | 9.15 | 10.0 | -8.5 | 30.0 |

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-14454-1

SDG No.:

Lab Sample ID: ICV 240-56877/11  Calibration Date: 09/06/2012 14:36

Instrument ID: A4HP9  Calib Start Date: 09/06/2012 11:13

GC Column: RXI-5SILMS  ID: 0.45(mm)  Calib End Date: 09/06/2012 13:49

Lab File ID: 20906011.D  Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 2,4,5-Trichlorophenol | Ave | 0.3640 | 0.3396 | 0.2000 | 9.33 | 10.0 | -6.7 | 30.0 |
| 2,4-Toluene diamine | Qua | | 0.1962 | | 8.42 | 10.0 | -15.8 | 30.0 |
| 1,1'-Biphenyl | Ave | 1.385 | 1.281 | 0.0100 | 9.25 | 10.0 | -7.5 | 30.0 |
| 1,2,3,4 -Tetrachlorobenzene | Ave | 0.5262 | 0.4894 | | 9.30 | 10.0 | -7.0 | 30.0 |
| 2-Chloronaphthalene | Ave | 1.068 | 0.9871 | 0.8000 | 9.24 | 10.0 | -7.6 | 30.0 |
| 2-Nitroaniline | Ave | 0.4603 | 0.4345 | 0.0100 | 9.44 | 10.0 | -5.6 | 30.0 |
| Dimethyl phthalate | Ave | 1.246 | 1.144 | 0.0100 | 9.18 | 10.0 | -8.2 | 30.0 |
| 2,6-Dinitrotoluene | Ave | 0.2867 | 0.2747 | | 9.58 | 10.0 | -4.2 | 30.0 |
| 1,2-Dinitrobenzene | Ave | 0.1454 | 0.1406 | | 9.67 | 10.0 | -3.3 | 30.0 |
| Acenaphthylene | Ave | 1.775 | 1.662 | 0.9000 | 9.36 | 10.0 | -6.4 | 30.0 |
| 3-Nitroaniline | Ave | 0.3164 | 0.2963 | 0.0100 | 9.36 | 10.0 | -6.4 | 30.0 |
| 2,4-Dinitrophenol | Qua | | 0.1887 | 0.0100 | 18.2 | 20.0 | -9.0 | 30.0 |
| Acenaphthene | Ave | 1.089 | 1.007 | 0.9000 | 9.24 | 10.0 | -7.6 | 30.0 |
| 4-Nitrophenol | Ave | 0.2052 | 0.1750 | | 8.53 | 10.0 | -14.7 | 30.0 |
| 2,4-Dinitrotoluene | Ave | 0.3906 | 0.3724 | 0.2000 | 9.53 | 10.0 | -4.7 | 30.0 |
| Dibenzofuran | Ave | 1.546 | 1.429 | 0.8000 | 9.24 | 10.0 | -7.6 | 30.0 |
| 2,3,5,6-Tetrachlorophenol | Ave | 0.3134 | 0.2909 | | 9.28 | 10.0 | -7.2 | 30.0 |
| Diethyl phthalate | Ave | 1.231 | 1.137 | 0.0100 | 9.24 | 10.0 | -7.6 | 30.0 |
| 4-Chlorophenyl phenyl ether | Ave | 0.6219 | 0.5838 | 0.4000 | 9.39 | 10.0 | -6.1 | 30.0 |
| 4-Nitroaniline | Ave | 0.3367 | 0.3225 | 0.0100 | 9.58 | 10.0 | -4.2 | 30.0 |
| Fluorene | Ave | 1.288 | 1.201 | 0.9000 | 9.32 | 10.0 | -6.8 | 30.0 |
| 4,6-Dinitro-2-methylphenol | Ave | 0.1465 | 0.1379 | 0.0100 | 9.41 | 10.0 | -5.9 | 30.0 |
| N-Nitrosodiphenylamine | Ave | 0.5656 | 0.5254 | 0.0100 | 9.29 | 10.0 | -7.1 | 30.0 |
| 1,2-Diphenylhydrazine(as Azobenzene) | Ave | 1.130 | 1.015 | | 8.99 | 10.0 | -10.1 | 30.0 |
| Azobenzene | Ave | 1.130 | 1.016 | | 8.99 | 10.0 | -10.1 | 30.0 |
| 4-Bromophenyl phenyl ether | Ave | 0.2097 | 0.1933 | 0.1000 | 9.22 | 10.0 | -7.8 | 30.0 |
| Hexachlorobenzene | Ave | 0.1956 | 0.1810 | 0.1000 | 9.25 | 10.0 | -7.5 | 30.0 |
| Atrazine | Ave | 0.1936 | 0.1767 | 0.0100 | 9.13 | 10.0 | -8.7 | 30.0 |
| Pentachlorophenol | Qua | | 0.1341 | 0.0500 | 18.1 | 20.0 | -9.4 | 30.0 |
| Phenanthrene | Ave | 1.130 | 1.027 | 0.7000 | 9.09 | 10.0 | -9.1 | 30.0 |
| Anthracene | Ave | 1.169 | 1.079 | 0.7000 | 9.23 | 10.0 | -7.7 | 30.0 |
| Carbazole | Ave | 1.058 | 0.9583 | 0.0100 | 9.06 | 10.0 | -9.4 | 30.0 |
| Di-n-butyl phthalate | Ave | 1.270 | 1.163 | 0.0100 | 9.15 | 10.0 | -8.5 | 30.0 |
| Fluoranthene | Ave | 1.231 | 1.134 | 0.6000 | 9.21 | 10.0 | -7.9 | 30.0 |
| Benzidine | Ave | 0.6390 | 0.5773 | | 9.03 | 10.0 | -9.7 | 30.0 |
| Pyrene | Ave | 1.237 | 1.130 | 0.6000 | 9.14 | 10.0 | -8.6 | 30.0 |
| Butyl benzyl phthalate | Ave | 0.5396 | 0.4916 | 0.0100 | 9.11 | 10.0 | -8.9 | 30.0 |
| 3,3'-Dimethoxybenzidine | Ave | 0.3013 | 0.2817 | | 9.35 | 10.0 | -6.5 | 30.0 |
| Bis(2-ethylhexyl) phthalate | Ave | 0.7474 | 0.6834 | 0.0100 | 9.14 | 10.0 | -8.6 | 30.0 |
| 4,4'-Methylene bis(2-chloroaniline) | Ave | 0.2349 | 0.2202 | | 9.37 | 10.0 | -6.3 | 30.0 |

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Lab Sample ID: ICV 240-56877/11 Calibration Date: 09/06/2012 14:36

Instrument ID: A4HP9 Calib Start Date: 09/06/2012 11:13

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 09/06/2012 13:49

Lab File ID: 20906011.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 3,3'-Dichlorobenzidine | Ave | 0.4346 | 0.4022 | 0.0100 | 9.25 | 10.0 | -7.5 | 30.0 |
| Benzo[a]anthracene | Ave | 1.222 | 1.142 | 0.8000 | 9.35 | 10.0 | -6.5 | 30.0 |
| Chrysene | Ave | 1.090 | 0.9417 | 0.7000 | 8.64 | 10.0 | -13.6 | 30.0 |
| Di-n-octyl phthalate | Ave | 1.512 | 1.399 | 0.0100 | 9.25 | 10.0 | -7.5 | 30.0 |
| Benzo[b]fluoranthene | Ave | 1.474 | 1.361 | 0.7000 | 9.23 | 10.0 | -7.7 | 30.0 |
| Benzo[k]fluoranthene | Ave | 1.266 | 1.154 | 0.7000 | 9.11 | 10.0 | -8.9 | 30.0 |
| Benzo[a]pyrene | Ave | 1.224 | 1.133 | 0.7000 | 9.25 | 10.0 | -7.5 | 30.0 |
| Dibenzo(a,h)anthracene | Ave | 1.064 | 0.999 | 0.4000 | 9.39 | 10.0 | -6.1 | 30.0 |
| Indeno[1,2,3-cd]pyrene | Ave | 1.282 | 1.207 | 0.5000 | 9.42 | 10.0 | -5.8 | 30.0 |
| Benzo[g,h,i]perylene | Ave | 1.069 | 0.9872 | 0.5000 | 9.23 | 10.0 | -7.7 | 30.0 |
| 2-Fluorophenol (Surr) | Ave | 1.472 | 1.407 | | 9.55 | 10.0 | -4.5 | 30.0 |
| Phenol-d5 (Surr) | Ave | 2.073 | 1.993 | | 9.61 | 10.0 | -3.9 | 30.0 |
| Nitrobenzene-d5 (Surr) | Ave | 0.5697 | 0.5415 | | 9.51 | 10.0 | -4.9 | 30.0 |
| 2-Fluorobiphenyl (Surr) | Ave | 1.264 | 1.170 | | 9.25 | 10.0 | -7.5 | 30.0 |
| 2,4,6-Tribromophenol (Surr) | Ave | 0.1402 | 0.1334 | | 9.52 | 10.0 | -4.8 | 30.0 |
| Terphenyl-d14 (Surr) | Ave | 0.7790 | 0.7173 | | 9.21 | 10.0 | -7.9 | 30.0 |

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Lab File ID: 20906021.D Lab Sample ID: MB 240-55629/14-A

Matrix: Water Date Extracted: 08/24/2012 11:11

Instrument ID: A4HP9 Date Analyzed: 09/06/2012 17:53

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| | LCS 240-55629/15-A | 20906022.D | 09/06/2012 18:13 |
| MT-MW07S-082212 | 240-14454-2 | 20906027.D | 09/06/2012 19:50 |
| MT-MW08S-082212 | 240-14454-3 | 20906028.D | 09/06/2012 20:10 |
| MT-MW10S-082212 | 240-14454-4 | 20906029.D | 09/06/2012 20:29 |

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-14454-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-55629/14-A

Matrix: Water | Lab File ID: 20906021.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3520C | Date Extracted: 08/24/2012 11:11

Sample wt/vol: 1000(mL) | Date Analyzed: 09/06/2012 17:53

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 56877 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 1.0 | U | 1.0 | 0.80 |
| 123-91-1 | 1,4-Dioxane | 1.0 | U | 1.0 | 0.49 |
| 88-06-2 | 2,4,6-Trichlorophenol | 5.0 | U | 5.0 | 0.80 |
| 95-95-4 | 2,4,5-Trichlorophenol | 5.0 | U | 5.0 | 0.30 |
| 120-83-2 | 2,4-Dichlorophenol | 2.0 | U | 2.0 | 0.80 |
| 105-67-9 | 2,4-Dimethylphenol | 2.0 | U | 2.0 | 0.80 |
| 51-28-5 | 2,4-Dinitrophenol | 5.0 | U | 5.0 | 2.4 |
| 121-14-2 | 2,4-Dinitrotoluene | 5.0 | U | 5.0 | 0.27 |
| 91-58-7 | 2-Chloronaphthalene | 1.0 | U | 1.0 | 0.10 |
| 95-57-8 | 2-Chlorophenol | 1.0 | U | 1.0 | 0.29 |
| 91-57-6 | 2-Methylnaphthalene | 0.20 | U | 0.20 | 0.10 |
| 95-48-7 | 2-Methylphenol | 1.0 | U | 1.0 | 0.80 |
| 88-74-4 | 2-Nitroaniline | 2.0 | U | 2.0 | 0.80 |
| 88-75-5 | 2-Nitrophenol | 2.0 | U | 2.0 | 0.28 |
| 15831-10-4 | 3 & 4 Methylphenol | 2.0 | U | 2.0 | 0.75 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 5.0 | U | 5.0 | 0.37 |
| 99-09-2 | 3-Nitroaniline | 2.0 | U | 2.0 | 0.28 |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 5.0 | U | 5.0 | 2.4 |
| 101-55-3 | 4-Bromophenyl phenyl ether | 2.0 | U | 2.0 | 0.80 |
| 59-50-7 | 4-Chloro-3-methylphenol | 2.0 | U | 2.0 | 0.80 |
| 106-47-8 | 4-Chloroaniline | 2.0 | U | 2.0 | 0.80 |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 2.0 | U | 2.0 | 0.30 |
| 100-01-6 | 4-Nitroaniline | 2.0 | U | 2.0 | 0.80 |
| 83-32-9 | Acenaphthene | 0.20 | U | 0.20 | 0.10 |
| 208-96-8 | Acenaphthylene | 0.20 | U | 0.20 | 0.10 |
| 98-86-2 | Acetophenone | 1.0 | U | 1.0 | 0.34 |
| 120-12-7 | Anthracene | 0.20 | U | 0.20 | 0.10 |
| 1912-24-9 | Atrazine | 1.0 | U | 1.0 | 0.34 |
| 100-52-7 | Benzaldehyde | 1.0 | U | 1.0 | 0.39 |
| 56-55-3 | Benzo[a]anthracene | 0.20 | U | 0.20 | 0.10 |
| 50-32-8 | Benzo[a]pyrene | 0.20 | U | 0.20 | 0.10 |
| 205-99-2 | Benzo[b]fluoranthene | 0.20 | U | 0.20 | 0.10 |
| 191-24-2 | Benzo[g,h,i]perylene | 0.20 | U | 0.20 | 0.10 |
| 207-08-9 | Benzo[k]fluoranthene | 0.20 | U | 0.20 | 0.10 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-14454-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-55629/14-A

Matrix: Water | Lab File ID: 20906021.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3520C | Date Extracted: 08/24/2012 11:11

Sample wt/vol: 1000(mL) | Date Analyzed: 09/06/2012 17:53

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 56877 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 111-91-1 | Bis(2-chloroethoxy)methane | 1.0 | U | 1.0 | 0.32 |
| 111-44-4 | Bis(2-chloroethyl)ether | 1.0 | U | 1.0 | 0.10 |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 2.0 | U | 2.0 | 0.80 |
| 85-68-7 | Butyl benzyl phthalate | 1.0 | U | 1.0 | 0.80 |
| 105-60-2 | Caprolactam | 5.0 | U | 5.0 | 0.80 |
| 86-74-8 | Carbazole | 1.0 | U | 1.0 | 0.28 |
| 218-01-9 | Chrysene | 0.20 | U | 0.20 | 0.10 |
| 84-74-2 | Di-n-butyl phthalate | 1.0 | U | 1.0 | 0.67 |
| 117-84-0 | Di-n-octyl phthalate | 1.0 | U | 1.0 | 0.80 |
| 53-70-3 | Dibenzo(a,h)anthracene | 0.20 | U | 0.20 | 0.10 |
| 132-64-9 | Dibenzofuran | 1.0 | U | 1.0 | 0.10 |
| 84-66-2 | Diethyl phthalate | 1.0 | U | 1.0 | 0.60 |
| 131-11-3 | Dimethyl phthalate | 1.0 | U | 1.0 | 0.29 |
| 206-44-0 | Fluoranthene | 0.20 | U | 0.20 | 0.10 |
| 86-73-7 | Fluorene | 0.20 | U | 0.20 | 0.10 |
| 118-74-1 | Hexachlorobenzene | 0.20 | U | 0.20 | 0.10 |
| 87-68-3 | Hexachlorobutadiene | 1.0 | U | 1.0 | 0.27 |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U | 10 | 0.80 |
| 67-72-1 | Hexachloroethane | 1.0 | U | 1.0 | 0.80 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.20 | U | 0.20 | 0.10 |
| 78-59-1 | Isophorone | 1.0 | U | 1.0 | 0.27 |
| 621-64-7 | N-Nitrosodi-n-propylamine | 1.0 | U | 1.0 | 0.80 |
| 62-75-9 | N-Nitrosodimethylamine | 1.0 | U | 1.0 | 0.31 |
| 86-30-6 | N-Nitrosodiphenylamine | 1.0 | U | 1.0 | 0.31 |
| 91-20-3 | Naphthalene | 0.20 | U | 0.20 | 0.10 |
| 98-95-3 | Nitrobenzene | 1.0 | U | 1.0 | 0.040 |
| 87-86-5 | Pentachlorophenol | 5.0 | U | 5.0 | 2.4 |
| 85-01-8 | Phenanthrene | 0.20 | U | 0.20 | 0.10 |
| 108-95-2 | Phenol | 1.0 | U | 1.0 | 0.60 |
| 129-00-0 | Pyrene | 0.20 | U | 0.20 | 0.10 |
| 108-60-1 | 2,2'-oxybis[1-chloropropane] | 1.0 | U | 1.0 | 0.40 |
| 606-20-2 | 2,6-Dinitrotoluene | 5.0 | U | 5.0 | 0.80 |
| 100-02-7 | 4-Nitrophenol | 5.0 | U | 5.0 | 2.4 |

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-14454-1

SDG No.:

Client Sample ID:  Lab Sample ID: MB 240-55629/14-A

Matrix: Water  Lab File ID: 20906021.D

Analysis Method: 8270D  Date Collected:

Extract. Method: 3520C  Date Extracted: 08/24/2012 11:11

Sample wt/vol: 1000(mL)  Date Analyzed: 09/06/2012 17:53

Con. Extract Vol.: 2(mL)  Dilution Factor: 1

Injection Volume: 1(uL)  Level: (low/med) Low

% Moisture:  GPC Cleanup:(Y/N) N

Analysis Batch No.: 56877  Units: ug/L

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 1718-51-0 | Terphenyl-d14 (Surr) | 88 | | 24-110 |
| 4165-62-2 | Phenol-d5 (Surr) | 74 | | 21-110 |
| 4165-60-0 | Nitrobenzene-d5 (Surr) | 71 | | 21-110 |
| 367-12-4 | 2-Fluorophenol (Surr) | 76 | | 10-110 |
| 321-60-8 | 2-Fluorobiphenyl (Surr) | 71 | | 20-110 |
| 118-79-6 | 2,4,6-Tribromophenol (Surr) | 68 | | 21-110 |

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 20906022.D

Lab ID: LCS 240-55629/15-A Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| 1,1'-Biphenyl | 20.0 | 19.1 | 95 | 43-110 | |
| 1,4-Dioxane | 20.0 | 17.4 | 87 | 27-110 | |
| 2,4,6-Trichlorophenol | 20.0 | 19.3 | 97 | 45-110 | |
| 2,4,5-Trichlorophenol | 20.0 | 20.4 | 102 | 48-110 | |
| 2,4-Dichlorophenol | 20.0 | 19.1 | 95 | 41-110 | |
| 2,4-Dimethylphenol | 20.0 | 14.1 | 71 | 32-110 | |
| 2,4-Dinitrophenol | 20.0 | 17.5 | 87 | 10-110 | |
| 2,4-Dinitrotoluene | 20.0 | 20.4 | 102 | 53-110 | |
| 2-Chloronaphthalene | 20.0 | 18.4 | 92 | 43-110 | |
| 2-Chlorophenol | 20.0 | 19.1 | 96 | 29-110 | |
| 2-Methylnaphthalene | 20.0 | 18.5 | 93 | 45-110 | |
| 2-Methylphenol | 20.0 | 18.7 | 93 | 42-110 | |
| 2-Nitroaniline | 20.0 | 20.1 | 101 | 54-110 | |
| 2-Nitrophenol | 20.0 | 18.9 | 95 | 40-110 | |
| 3 & 4 Methylphenol | 40.0 | 38.3 | 96 | 44-110 | |
| 3,3'-Dichlorobenzidine | 20.0 | 10.1 | 50 | 22-110 | |
| 3-Nitroaniline | 20.0 | 19.1 | 95 | 53-110 | |
| 4,6-Dinitro-2-methylphenol | 20.0 | 20.1 | 101 | 31-110 | |
| 4-Bromophenyl phenyl ether | 20.0 | 18.9 | 95 | 45-110 | |
| 4-Chloro-3-methylphenol | 20.0 | 19.5 | 97 | 52-110 | |
| 4-Chloroaniline | 20.0 | 16.9 | 84 | 44-110 | |
| 4-Chlorophenyl phenyl ether | 20.0 | 19.2 | 96 | 47-110 | |
| 4-Nitroaniline | 20.0 | 20.0 | 100 | 54-110 | |
| Acenaphthene | 20.0 | 18.9 | 94 | 47-110 | |
| Acenaphthylene | 20.0 | 18.8 | 94 | 49-110 | |
| Acetophenone | 20.0 | 19.6 | 98 | 46-110 | |
| Anthracene | 20.0 | 19.3 | 96 | 52-110 | |
| Atrazine | 20.0 | 24.5 | 123 | 66-126 | |
| Benzaldehyde | 20.0 | 26.7 | 134 | 38-110 | * |
| Benzo[a]anthracene | 20.0 | 18.3 | 92 | 52-110 | |
| Benzo[a]pyrene | 20.0 | 16.4 | 82 | 44-110 | |
| Benzo[b]fluoranthene | 20.0 | 19.7 | 99 | 48-110 | |
| Benzo[g,h,i]perylene | 20.0 | 19.1 | 96 | 50-110 | |
| Benzo[k]fluoranthene | 20.0 | 17.7 | 89 | 49-110 | |
| Bis(2-chloroethoxy)methane | 20.0 | 18.7 | 94 | 43-110 | |
| Bis(2-chloroethyl)ether | 20.0 | 19.0 | 95 | 40-110 | |
| Bis(2-ethylhexyl) phthalate | 20.0 | 20.1 | 100 | 39-116 | |
| Butyl benzyl phthalate | 20.0 | 19.8 | 99 | 55-110 | |
| Caprolactam | 20.0 | 21.0 | 105 | 45-111 | |
| Carbazole | 20.0 | 19.6 | 98 | 55-110 | |
| Chrysene | 20.0 | 20.8 | 104 | 55-110 | |
| Di-n-butyl phthalate | 20.0 | 20.8 | 104 | 57-110 | |

# Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 20906022.D

Lab ID: LCS 240-55629/15-A Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| Di-n-octyl phthalate | 20.0 | 18.0 | 90 | 40-110 | |
| Dibenzo(a,h)anthracene | 20.0 | 19.2 | 96 | 49-110 | |
| Dibenzofuran | 20.0 | 18.9 | 94 | 51-110 | |
| Diethyl phthalate | 20.0 | 20.2 | 101 | 58-110 | |
| Dimethyl phthalate | 20.0 | 20.0 | 100 | 57-110 | |
| Fluoranthene | 20.0 | 20.2 | 101 | 54-110 | |
| Fluorene | 20.0 | 19.4 | 97 | 52-110 | |
| Hexachlorobenzene | 20.0 | 19.6 | 98 | 50-110 | |
| Hexachlorobutadiene | 20.0 | 16.1 | 80 | 33-110 | |
| Hexachlorocyclopentadiene | 20.0 | 7.36 J | 37 | 10-110 | |
| Hexachloroethane | 20.0 | 16.9 | 84 | 35-110 | |
| Indeno[1,2,3-cd]pyrene | 20.0 | 19.1 | 95 | 50-110 | |
| Isophorone | 20.0 | 20.1 | 101 | 49-110 | |
| N-Nitrosodi-n-propylamine | 20.0 | 20.1 | 100 | 47-110 | |
| N-Nitrosodimethylamine | 20.0 | 19.5 | 97 | 40-110 | |
| N-Nitrosodiphenylamine | 20.0 | 19.1 | 96 | 50-110 | |
| Naphthalene | 20.0 | 18.5 | 93 | 44-110 | |
| Nitrobenzene | 20.0 | 18.6 | 93 | 42-110 | |
| Pentachlorophenol | 20.0 | 20.4 | 102 | 18-110 | |
| Phenanthrene | 20.0 | 19.8 | 99 | 53-110 | |
| Phenol | 20.0 | 19.1 | 95 | 33-110 | |
| Pyrene | 20.0 | 18.7 | 94 | 52-110 | |
| 2,2'-oxybis[1-chloropropane] | 20.0 | 19.5 | 98 | 37-110 | |
| 2,6-Dinitrotoluene | 20.0 | 20.3 | 102 | 54-110 | |
| 4-Nitrophenol | 20.0 | 17.7 | 88 | 33-112 | |

# Column to be used to flag recovery and RPD values

FORM III 8270D

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Sample No.: STD6 240-56877/10 Date Analyzed: 09/06/2012 13:49

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 20906010.D Heated Purge: (Y/N) N

Calibration ID: 11220

| | | DCB | | NPT | | ANT | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | | 216005 | 3.85 | 853119 | 4.81 | 528765 | 6.10 |
| UPPER LIMIT | | 432010 | 4.35 | 1706238 | 5.31 | 1057530 | 6.60 |
| LOWER LIMIT | | 108003 | 3.35 | 426560 | 4.31 | 264383 | 5.60 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| ICV 240-56877/11 | | 257431 | 3.85 | 1036701 | 4.81 | 650765 | 6.11 |
| MB 240-55629/14-A | | 170227 | 3.84 | 660165 | 4.81 | 419099 | 6.10 |
| LCS 240-55629/15-A | | 161344 | 3.85 | 655983 | 4.80 | 414445 | 6.10 |
| 240-14454-2 | MT-MW07S-082212 | 161558 | 3.85 | 618391 | 4.81 | 400998 | 6.10 |
| 240-14454-3 | MT-MW08S-082212 | 183063 | 3.84 | 727072 | 4.81 | 455497 | 6.10 |
| 240-14454-4 | MT-MW10S-082212 | 188316 | 3.84 | 710870 | 4.81 | 463898 | 6.10 |

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270D

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Sample No.: STD6 240-56877/10 Date Analyzed: 09/06/2012 13:49

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 20906010.D Heated Purge: (Y/N) N

Calibration ID: 11220

| | | PHN | | CRY | | PRY | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | | 880859 | 7.19 | 914424 | 9.17 | 755962 | 10.56 |
| UPPER LIMIT | | 1761718 | 7.69 | 1828848 | 9.67 | 1511924 | 11.06 |
| LOWER LIMIT | | 440430 | 6.69 | 457212 | 8.67 | 377981 | 10.06 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| ICV 240-56877/11 | | 1094416 | 7.20 | 1142381 | 9.23 | 948282 | 10.63 |
| MB 240-55629/14-A | | 683551 | 7.19 | 723026 | 9.15 | 578419 | 10.54 |
| LCS 240-55629/15-A | | 687772 | 7.19 | 742661 | 9.15 | 611824 | 10.53 |
| 240-14454-2 | MT-MW07S-082212 | 672129 | 7.19 | 699224 | 9.15 | 595966 | 10.54 |
| 240-14454-3 | MT-MW08S-082212 | 760592 | 7.19 | 822919 | 9.15 | 702773 | 10.54 |
| 240-14454-4 | MT-MW10S-082212 | 792752 | 7.19 | 852468 | 9.14 | 708260 | 10.53 |

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270D

# GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Canton  Job No.: 240-14454-1

SDG No.:

Batch Number: 55629  Batch Start Date: 08/24/12 13:20  Batch Analyst: Matthews, Brandon

Batch Method: 3520C  Batch End Date: 08/25/12 07:20

| Lab Sample ID | Client Sample ID | Method Chain | Basis | ReceivedpH | InitialAmount | FinalAmount | FirstAdjustpH | EXBNALCS1 00026 | EXBNASURRW 00017 |
|---|---|---|---|---|---|---|---|---|---|
| 240-14454-L-2 | MT-MW07S-082212 | 3520C, 8270D | T | 7 SU | 1020 mL | 2 mL | 2 SU | | 1 mL |
| 240-14454-J-3 | MT-MW08S-082212 | 3520C, 8270D | T | 7 SU | 1050 mL | 2 mL | 2 SU | | 1 mL |
| 240-14454-I-4 | MT-MW10S-082212 | 3520C, 8270D | T | 7 SU | 1050 mL | 2 mL | 2 SU | | 1 mL |
| MB 240-55629/14 | | 3520C, 8270D | | 7 SU | 1000 mL | 2 mL | 2 SU | | 1 mL |
| LCS 240-55629/15 | | 3520C, 8270D | | 7 SU | 1000 mL | 2 mL | 2 SU | 1 mL | 1 mL |

| Lab Sample ID | Client Sample ID | Method Chain | Basis | EXRESTEKSPKW 00013 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 240-14454-L-2 | MT-MW07S-082212 | 3520C, 8270D | T | | | | | | |
| 240-14454-J-3 | MT-MW08S-082212 | 3520C, 8270D | T | | | | | | |
| 240-14454-I-4 | MT-MW10S-082212 | 3520C, 8270D | T | | | | | | |
| MB 240-55629/14 | | 3520C, 8270D | | | | | | | |
| LCS 240-55629/15 | | 3520C, 8270D | | 1 mL | | | | | |

| Batch Notes | |
|---|---|
| Acid used for pH adjust Lot # | 178762 |
| Person's name who did the concentration | cc/lh |
| Filter Paper Lot Number | 337125 |
| Na2SO4 Lot Number | 275335 |
| Prep Solvent Lot # | 611566 |

| Basis | Basis Description |
|---|---|
| T | Total/NA |

**SAMPLE ID** MT-MW08S-082212

| SAMPLE CALC IS AREA | DILUTION | COMPOUND OF INTEREST | IS AMOUNT (NG) | Final Extract Volume (UL) | AVE RRF | CONCENTRATION PPB |
|---|---|---|---|---|---|---|
| 727072 | 1 | 10047 | 4 | 2000 | 0.1352 | 0.78 |
| | | | Amt. inj | **Sample Volume (ML)** | | |
| | | | 1 | 1050 | | |

Caprolactum = 0.8 ug/L

TestAmerica Laboratories
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Ncchrom\ChromData\A4HP9\20120906-12973.b\20906028.D | | |
| Lims ID: | 240-14454-J-3-A | Client ID: | MT-MW08S-082212 |
| Inject. Date: | 06-Sep-2012 20:10:30 | Dil. Factor: | 1.0000 |
| Sample Type: | Client | | |
| Sample ID: | 240-0012973-028 | | |
| Misc. Info.: | 240-14454-J-3-A =240-14454-J-3-A | | |
| Operator: | 001574 | Instrument ID: | A4HP9 |
| Vol. Injected: | 1.0000 | ALS Bottle#: | 28 |
| Lims Batch ID: | 56877 | Lims Sample ID: | 28 |
| Detector: | MS SCAN | | |
| Method: | \\Ncchrom\ChromData\A4HP9\20120906-12973.b\8270 _9.m | | |
| Last Update: | 07-Sep-2012 09:48:47 | Calib Date: | 06-Sep-2012 17:14:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Ncchrom\ChromData\A4HP9\20120906-12973.b\20906019.D | | |
| Limit Group: | MSS 8270D ICAL | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Process Host: | XAWRK021 | | |
| First Level Reviewer: ulmanm | | Date: | 07-Sep-2012 09:40:44 |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ng/ul | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Dichlorobenzene-d4 | 152 | 3.844 | 3.844 | 0.0 | 96 | 183063 | 4.00 | |
| * 2 Naphthalene-d8 | 136 | 4.805 | 4.805 | 0.0 | 99 | 727072 | 4.00 | |
| * 3 Acenaphthene-d10 | 164 | 6.104 | 6.103 | 0.001 | 86 | 455497 | 4.00 | |
| * 4 Phenanthrene-d10 | 188 | 7.188 | 7.188 | 0.0 | 98 | 760592 | 4.00 | |
| * 5 Chrysene-d12 | 240 | 9.149 | 9.175 | -0.026 | 77 | 822919 | 4.00 | |
| * 6 Perylene-d12 | 264 | 10.537 | 10.575 | -0.038 | 92 | 702773 | 4.00 | |
| $ 7 2-Fluorophenol | 112 | 2.845 | 2.849 | -0.004 | 94 | 746257 | 11.1 | |
| $ 8 Phenol-d5 | 99 | 3.523 | 3.528 | -0.005 | 0 | 995110 | 10.5 | |
| $ 9 Nitrobenzene-d5 | 82 | 4.255 | 4.259 | -0.004 | 84 | 677605 | 6.54 | |
| $ 10 2-Fluorobiphenyl (Surr) | 172 | 5.591 | 5.590 | 0.001 | 99 | 945392 | 6.57 | |
| $ 11 2,4,6-Tribromophenol | 330 | 6.675 | 6.679 | -0.004 | 83 | 191685 | 12.0 | |
| $ 12 Terphenyl-d14 | 244 | 8.326 | 8.335 | -0.009 | 99 | 1290746 | 8.05 | |
| 25 1,4-Dioxane | 88 | | 1.743 | | | | | |
| 26 N-Nitrosodimethylamine | 74 | | 1.920 | | | | | |
| 41 Benzaldehyde | 77 | | 3.517 | | | | | 9 |
| 43 Phenol | 94 | | 3.538 | | | | | 9 |
| 69 Bis(2-chloroethyl)ether | 93 | | 3.624 | | | | | 9 |
| 46 2-Chlorophenol | 128 | | 3.688 | | | | | |
| 51 2-Methylphenol | 108 | | 4.003 | | | | | 9 |
| 53 2,2'-oxybis[1-chloropropane] | 45 | | 4.030 | | | | | 9 |
| 21 3 & 4 Methylphenol | 108 | | 4.115 | | | | | |
| 57 N-Nitrosodi-n-propylamine | 70 | | 4.131 | | | | | 9 |
| 58 Acetophenone | 105 | | 4.142 | | | | | |
| 61 Hexachloroethane | 117 | | 4.243 | | | | | |
| 62 Nitrobenzene | 77 | | 4.275 | | | | | |
| 64 Isophorone | 82 | | 4.446 | | | | | 9 |
| 66 2-Nitrophenol | 139 | | 4.516 | | | | | 9 |
| 65 2,4-Dimethylphenol | 107 | | 4.521 | | | | | 9 |
| 70 Bis(2-chloroethoxy)methane | 93 | | 4.591 | | | | | 9 |
| 73 2,4-Dichlorophenol | 162 | | 4.687 | | | | | |
| 75 Naphthalene | 128 | | 4.826 | | | | | 9 |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ng/ul | Flags |
|---|---|---|---|---|---|---|---|---|
| 76 4-Chloroaniline | 127 | | 4.847 | | | | | 9 |
| 79 Hexachlorobutadiene | 225 | | 4.911 | | | | | |
| 84 Caprolactam | 113 | 5.083 | 5.109 | -0.026 | 59 | 10047 | 0.4087 | |
| 86 4-Chloro-3-methylphenol | 107 | | 5.189 | | | | | |
| 87 2-Methylnaphthalene | 142 | | 5.333 | | | | | 9 |
| 89 Hexachlorocyclopentadiene | 237 | | 5.451 | | | | | |
| 92 2,4,6-Trichlorophenol | 196 | | 5.531 | | | | | |
| 93 2,4,5-Trichlorophenol | 196 | | 5.563 | | | | | |
| 98 1,1'-Biphenyl | 154 | | 5.670 | | | | | |
| 100 2-Chloronaphthalene | 162 | | 5.696 | | | | | |
| 102 2-Nitroaniline | 65 | | 5.755 | | | | | 9 |
| 105 Dimethyl phthalate | 163 | | 5.873 | | | | | 9 |
| 107 2,6-Dinitrotoluene | 165 | | 5.921 | | | | | 9 |
| 109 Acenaphthylene | 152 | | 6.006 | | | | | 9 |
| 110 3-Nitroaniline | 138 | | 6.054 | | | | | |
| 111 2,4-Dinitrophenol | 184 | | 6.124 | | | | | |
| 112 Acenaphthene | 153 | | 6.129 | | | | | 9 |
| 113 4-Nitrophenol | 109 | | 6.150 | | | | | 9 |
| 114 2,4-Dinitrotoluene | 165 | | 6.220 | | | | | 9 |
| 116 Dibenzofuran | 168 | | 6.252 | | | | | |
| 121 Diethyl phthalate | 149 | | 6.375 | | | | | |
| 123 4-Chlorophenyl phenyl ether | 204 | | 6.482 | | | | | |
| 125 4-Nitroaniline | 138 | | 6.498 | | | | | 9 |
| 126 Fluorene | 166 | | 6.503 | | | | | 9 |
| 128 4,6-Dinitro-2-methylphenol | 198 | | 6.519 | | | | | |
| 131 N-Nitrosodiphenylamine | 169 | | 6.567 | | | | | 9 |
| 139 4-Bromophenyl phenyl ether | 248 | | 6.845 | | | | | |
| 141 Hexachlorobenzene | 284 | | 6.914 | | | | | |
| 142 Atrazine | 200 | | 6.930 | | | | | |
| 143 Pentachlorophenol | 266 | | 7.048 | | | | | |
| 148 Phenanthrene | 178 | | 7.208 | | | | | 9 |
| 149 Anthracene | 178 | | 7.246 | | | | | 9 |
| 151 Carbazole | 167 | | 7.347 | | | | | |
| 154 Di-n-butyl phthalate | 149 | 7.551 | 7.555 | -0.004 | 99 | 47398 | 0.1962 | |
| 159 Fluoranthene | 202 | | 8.079 | | | | | 9 |
| 161 Pyrene | 202 | | 8.255 | | | | | |
| 168 Butyl benzyl phthalate | 149 | | 8.672 | | | | | 9 |
| 173 Bis(2-ethylhexyl) phthalate | 149 | 9.068 | 9.089 | -0.021 | 95 | 63618 | 0.4137 | |
| 175 3,3'-Dichlorobenzidine | 252 | | 9.115 | | | | | |
| 177 Benzo[a]anthracene | 228 | | 9.158 | | | | | 9 |
| 178 Chrysene | 228 | | 9.190 | | | | | 9 |
| 180 Di-n-octyl phthalate | 149 | | 9.618 | | | | | 9 |
| 182 Benzo[b]fluoranthene | 252 | | 10.136 | | | | | 9 |
| 183 Benzo[k]fluoranthene | 252 | | 10.157 | | | | | 9 |
| 184 Benzo[a]pyrene | 252 | | 10.504 | | | | | 9 |
| 188 Indeno[1,2,3-cd]pyrene | 276 | | 12.075 | | | | | |
| 189 Dibenz(a,h)anthracene | 278 | | 12.075 | | | | | |
| 190 Benzo[g,h,i]perylene | 276 | | 12.529 | | | | | |

# Method 8015C - GRO

## Nonhalogenated Organics using GC/FID - Modified (Gasoline Range Organics) by Method 8015C

FORM II
GC VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Matrix: Water Level: Low

GC Column (2): RTX-VRX 0.45 (mm)

| Client Sample ID | Lab Sample ID | TFT2 # |
|---|---|---|
| MT-MW07S-082212 | 240-14454-2 | 54 |
| MT-MW08S-082212 | 240-14454-3 | 71 |
| MT-MW10S-082212 | 240-14454-4 | 55 |
| | MB 240-55983/11 | 56 |
| | LCS 240-55983/12 | 86 |
| MT-MW07S-082212 MS | 240-14454-2 MS | 57 |
| MT-MW07S-082212 MSD | 240-14454-2 MSD | 68 |

| | QC LIMITS |
|---|---|
| TFT = Trifluorotoluene (Surr) | 10-150 |

# Column to be used to flag recovery values

FORM II 8015C

FORM VIII
GC VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Sample No.: CCV 240-55983/4 Date Analyzed: 08/28/2012 14:06

Instrument ID: O GC Column: RTX-VRX ID: 0.45(mm)

Lab File ID (Standard): O1082804.D Heated Purge: (Y/N) N

Calibration ID: 10715

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

| | | | | TFT RT # | | |
|---|---|---|---|---|---|---|
| CONTINUING CALIBRATION SURROGATE | | | | 9.06 | | |
| UPPER LIMIT | | | | 9.16 | | |
| LOWER LIMIT | | | | 8.96 | | |
| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | LAB FILE ID | | | |
| CCV 240-55983/4 CCVRT | | 08/28/2012 14:06 | O1082804.D | 9.06 | | |
| MB 240-55983/11 | | 08/28/2012 18:58 | O1082811.D | 9.05 | | |
| LCS 240-55983/12 | | 08/28/2012 19:33 | O1082812.D | 9.06 | | |
| CCV 240-55983/13 | | 08/28/2012 20:07 | O1082813.D | 9.05 | | |
| 240-14454-2 | MT-MW07S-082212 | 08/28/2012 20:42 | O1082814.D | 9.04 | | |
| 240-14454-2 MS | MT-MW07S-082212 MS | 08/28/2012 21:16 | O1082815.D | 9.06 | | |
| 240-14454-2 MSD | MT-MW07S-082212 MSD | 08/28/2012 21:51 | O1082816.D | 9.06 | | |
| 240-14454-3 | MT-MW08S-082212 | 08/28/2012 22:26 | O1082817.D | 9.04 | | |
| 240-14454-4 | MT-MW10S-082212 | 08/28/2012 23:01 | O1082818.D | 9.04 | | |
| CCV 240-55983/19 | | 08/28/2012 23:35 | O1082819.D | 9.05 | | |

TFT = Trifluorotoluene (Surr)

TFT RT Limit = ± 0.1 minutes of surrogate RT

# Column used to flag values outside QC limits

FORM VIII 8015C

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Instrument ID: O Start Date: 08/20/2012 09:11

Analysis Batch Number: 54955 End Date: 08/20/2012 14:25

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| ZZZZZ | | 08/20/2012 09:11 | 1 | | RTX-VRX 0.45(mm) |
| ZZZZZ | | 08/20/2012 10:20 | 1 | | RTX-VRX 0.45(mm) |
| STD1 240-54955/4 IC | | 08/20/2012 10:55 | 1 | O1082004.D | RTX-VRX 0.45(mm) |
| STD2 240-54955/5 IC | | 08/20/2012 11:30 | 1 | O1082005.D | RTX-VRX 0.45(mm) |
| STD3 240-54955/6 IC | | 08/20/2012 12:05 | 1 | O1082006.D | RTX-VRX 0.45(mm) |
| STD4 240-54955/7 ICRT | | 08/20/2012 12:40 | 1 | O1082007.D | RTX-VRX 0.45(mm) |
| STD5 240-54955/8 IC | | 08/20/2012 13:15 | 1 | O1082008.D | RTX-VRX 0.45(mm) |
| STD6 240-54955/9 IC | | 08/20/2012 13:50 | 1 | O1082009.D | RTX-VRX 0.45(mm) |
| ICV 240-54955/10 | | 08/20/2012 14:25 | 1 | O1082010.D | RTX-VRX 0.45(mm) |

FORM VI
GC VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-14454-1 Analy Batch No.: 54955

SDG No.:

Instrument ID: O GC Column: RTX-VRX ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/20/2012 10:55 Calibration End Date: 08/20/2012 13:50 Calibration ID: 10715

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-54955/4 | O1082004.D |
| Level 2 | STD2 240-54955/5 | O1082005.D |
| Level 3 | STD3 240-54955/6 | O1082006.D |
| Level 4 | STD4 240-54955/7 | O1082007.D |
| Level 5 | STD5 240-54955/8 | O1082008.D |
| Level 6 | STD6 240-54955/9 | O1082009.D |

| ANALYTE | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 6 | | | | | RT WINDOW | AVG RT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C6-C10) | 11.876 | 11.876 | 11.876 | 11.876 | 11.876 | 11.876 | | | | | 4.276 - 19.477 | 11.876 |
| C6-C12 | 13.087 | 13.087 | 13.087 | 13.087 | 13.087 | 13.087 | | | | | 4.376 - 21.798 | 13.087 |
| Trifluorotoluene (Surr) | 9.046 | 9.045 | 9.055 | 9.055 | 9.061 | 9.072 | | | | | 8.798 - 9.298 | 9.056 |

FORM VI
GC VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-14454-1 Analy Batch No.: 54955

SDG No.:

Instrument ID: O GC Column: RTX-VRX ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/20/2012 10:55 Calibration End Date: 08/20/2012 13:50 Calibration ID: 10715

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-54955/4 | O1082004.D |
| Level 2 | STD2 240-54955/5 | O1082005.D |
| Level 3 | STD3 240-54955/6 | O1082006.D |
| Level 4 | STD4 240-54955/7 | O1082007.D |
| Level 5 | STD5 240-54955/8 | O1082008.D |
| Level 6 | STD6 240-54955/9 | O1082009.D |

| ANALYTE | CF | | | | CURVE TYPE | COEFFICIENT | | | # | MIN CF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 5 | LVL 2<br>LVL 6 | LVL 3 | LVL 4 | | B | M1 | M2 | | | | | | | | |
| Total Petroleum Hydrocarbons (C6-C10) | 193301<br>184557 | 170535<br>181905 | 170811 | 180009 | Ave | | 180186.409 | | | | 4.8 | | 20.0 | | | |
| C6-C12 | 244005<br>195860 | 193925<br>192996 | 185044 | 189767 | Ave | | 200266.055 | | | | 11.0 | | 20.0 | | | |
| Trifluorotoluene (Surr) | 81823<br>104739 | 80221<br>108915 | 92127 | 78406 | Ave | | 91038.5000 | | | | 14.0 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-14454-1 Analy Batch No.: 54955

SDG No.:

Instrument ID: O GC Column: RTX-VRX ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/20/2012 10:55 Calibration End Date: 08/20/2012 13:50 Calibration ID: 10715

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-54955/4 | O1082004.D |
| Level 2 | STD2 240-54955/5 | O1082005.D |
| Level 3 | STD3 240-54955/6 | O1082006.D |
| Level 4 | STD4 240-54955/7 | O1082007.D |
| Level 5 | STD5 240-54955/8 | O1082008.D |
| Level 6 | STD6 240-54955/9 | O1082009.D |

| ANALYTE | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Total Petroleum Hydrocarbons (C6-C10) | Ave | 19330067<br>291047893 | 34107035 | 68324473 | 144007424 | 221468658 | 100<br>1600 | 200 | 400 | 800 | 1200 |
| C6-C12 | Ave | 24400487<br>308793894 | 38784941 | 74017433 | 151813635 | 235031932 | 100<br>1600 | 200 | 400 | 800 | 1200 |
| Trifluorotoluene (Surr) | Ave | 818231<br>1089147 | 802207 | 921271 | 784063 | 1047391 | 10.0<br>10.0 | 10.0 | 10.0 | 10.0 | 10.0 |

Curve Type Legend:
Ave = Average

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Lab Sample ID: ICV 240-54955/10 Calibration Date: 08/20/2012 14:25

Instrument ID: O Calib Start Date: 08/20/2012 10:55

GC Column: RTX-VRX ID: 0.45(mm) Calib End Date: 08/20/2012 13:50

Lab File ID: O1082010.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C6-C10) | Ave | 180186 | 207009 | | 919 | 800 | 14.9 | 20.0 |
| C6-C12 | Ave | 200266 | 220249 | | 880 | 800 | 10.0 | 20.0 |
| Trifluorotoluene (Surr) | Ave | 91039 | 106067 | | 11.7 | 10.0 | 16.5 | 20.0 |

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Lab Sample ID: ICV 240-54955/10 Calibration Date: 08/20/2012 14:25

Instrument ID: O Calib Start Date: 08/20/2012 10:55

GC Column: RTX-VRX ID: 0.45(mm) Calib End Date: 08/20/2012 13:50

Lab File ID: O1082010.D Heated Purge: (Y/N) N

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | TO | FROM |
| Total Petroleum Hydrocarbons (C6-C10) | 11.88 | 4.28 | 19.48 |
| C6-C12 | 13.09 | 4.38 | 21.80 |
| Trifluorotoluene (Surr) | 9.06 | 8.81 | 9.31 |

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Instrument ID: O Start Date: 08/28/2012 12:22

Analysis Batch Number: 55983 End Date: 08/28/2012 23:35

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| ZZZZZ | | 08/28/2012 12:22 | 1 | | RTX-VRX 0.45(mm) |
| ZZZZZ | | 08/28/2012 12:56 | 1 | | RTX-VRX 0.45(mm) |
| ZZZZZ | | 08/28/2012 13:31 | 1 | | RTX-VRX 0.45(mm) |
| CCV 240-55983/4 CCVRT | | 08/28/2012 14:06 | 1 | O1082804.D | RTX-VRX 0.45(mm) |
| MB 240-55983/11 | | 08/28/2012 18:58 | 1 | O1082811.D | RTX-VRX 0.45(mm) |
| LCS 240-55983/12 | | 08/28/2012 19:33 | 1 | O1082812.D | RTX-VRX 0.45(mm) |
| CCV 240-55983/13 | | 08/28/2012 20:07 | 1 | O1082813.D | RTX-VRX 0.45(mm) |
| 240-14454-2 | MT-MW07S-082212 | 08/28/2012 20:42 | 1 | O1082814.D | RTX-VRX 0.45(mm) |
| 240-14454-2 MS | MT-MW07S-082212 MS | 08/28/2012 21:16 | 1 | O1082815.D | RTX-VRX 0.45(mm) |
| 240-14454-2 MSD | MT-MW07S-082212 MSD | 08/28/2012 21:51 | 1 | O1082816.D | RTX-VRX 0.45(mm) |
| 240-14454-3 | MT-MW08S-082212 | 08/28/2012 22:26 | 1 | O1082817.D | RTX-VRX 0.45(mm) |
| 240-14454-4 | MT-MW10S-082212 | 08/28/2012 23:01 | 1 | O1082818.D | RTX-VRX 0.45(mm) |
| CCV 240-55983/19 | | 08/28/2012 23:35 | 1 | O1082819.D | RTX-VRX 0.45(mm) |

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Lab Sample ID: CCV 240-55983/4 Calibration Date: 08/28/2012 14:06

Instrument ID: O Calib Start Date: 08/20/2012 10:55

GC Column: RTX-VRX ID: 0.45(mm) Calib End Date: 08/20/2012 13:50

Lab File ID: O1082804.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C6-C10) | Ave | 180186 | 194263 | | 862 | 800 | 7.8 | 20.0 |
| C6-C12 | Ave | 200266 | 216341 | | 864 | 800 | 8.0 | 20.0 |
| Trifluorotoluene (Surr) | Ave | 91039 | 80950 | | 8.89 | 10.0 | -11.1 | 20.0 |

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Lab Sample ID: CCV 240-55983/4 Calibration Date: 08/28/2012 14:06

Instrument ID: O Calib Start Date: 08/20/2012 10:55

GC Column: RTX-VRX ID: 0.45(mm) Calib End Date: 08/20/2012 13:50

Lab File ID: O1082804.D Heated Purge: (Y/N) N

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | TO | FROM |
| Total Petroleum Hydrocarbons (C6-C10) | 11.31 | 4.27 | 18.35 |
| C6-C12 | 13.13 | 4.37 | 21.90 |
| Trifluorotoluene (Surr) | 9.06 | 8.81 | 9.31 |

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-14454-1

SDG No.:

Lab Sample ID: CCV 240-55983/13  Calibration Date: 08/28/2012 20:07

Instrument ID: O  Calib Start Date: 08/20/2012 10:55

GC Column: RTX-VRX  ID: 0.45(mm)  Calib End Date: 08/20/2012 13:50

Lab File ID: O1082813.D  Conc. Units: ug/L  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C6-C10) | Ave | 180186 | 184525 | | 819 | 800 | 2.4 | 20.0 |
| C6-C12 | Ave | 200266 | 200692 | | 802 | 800 | 0.2 | 20.0 |
| Trifluorotoluene (Surr) | Ave | 91039 | 82586 | | 9.07 | 10.0 | -9.3 | 20.0 |

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Lab Sample ID: CCV 240-55983/13 Calibration Date: 08/28/2012 20:07

Instrument ID: O Calib Start Date: 08/20/2012 10:55

GC Column: RTX-VRX ID: 0.45(mm) Calib End Date: 08/20/2012 13:50

Lab File ID: O1082813.D Heated Purge: (Y/N) N

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | TO | FROM |
| Total Petroleum Hydrocarbons (C6-C10) | 11.31 | 4.27 | 18.35 |
| C6-C12 | 13.13 | 4.37 | 21.90 |
| Trifluorotoluene (Surr) | 9.05 | 8.80 | 9.30 |

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-14454-1

SDG No.:

Lab Sample ID: CCV 240-55983/19  Calibration Date: 08/28/2012 23:35

Instrument ID: O  Calib Start Date: 08/20/2012 10:55

GC Column: RTX-VRX  ID: 0.45(mm)  Calib End Date: 08/20/2012 13:50

Lab File ID: O1082819.D  Conc. Units: ug/L  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C6-C10) | Ave | 180186 | 176993 | | 786 | 800 | -1.8 | 20.0 |
| C6-C12 | Ave | 200266 | 193020 | | 771 | 800 | -3.6 | 20.0 |
| Trifluorotoluene (Surr) | Ave | 91039 | 75754 | | 8.32 | 10.0 | -16.8 | 20.0 |

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Lab Sample ID: CCV 240-55983/19 Calibration Date: 08/28/2012 23:35

Instrument ID: O Calib Start Date: 08/20/2012 10:55

GC Column: RTX-VRX ID: 0.45(mm) Calib End Date: 08/20/2012 13:50

Lab File ID: O1082819.D Heated Purge: (Y/N) N

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | TO | FROM |
| Total Petroleum Hydrocarbons (C6-C10) | 11.31 | 4.27 | 18.35 |
| C6-C12 | 13.13 | 4.37 | 21.90 |
| Trifluorotoluene (Surr) | 9.05 | 8.80 | 9.30 |

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Lab Sample ID: MB 240-55983/11

Matrix: Water Date Extracted: 08/28/2012 18:58

Lab File ID:(1) Lab File ID:(2) O1082811.D

Date Analyzed:(1) Date Analyzed:(2) 08/28/2012 18:58

Instrument ID:(1) Instrument ID:(2) O

GC Column:(1) ID: GC Column:(2) RTX-VRX ID: 0.45(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | DATE ANALYZED 1 | DATE ANALYZED 2 |
|---|---|---|---|
| | LCS 240-55983/12 | | 08/28/2012 19:33 |
| MT-MW07S-082212 | 240-14454-2 | | 08/28/2012 20:42 |
| MT-MW07S-082212 MS | 240-14454-2 MS | | 08/28/2012 21:16 |
| MT-MW07S-082212 MSD | 240-14454-2 MSD | | 08/28/2012 21:51 |
| MT-MW08S-082212 | 240-14454-3 | | 08/28/2012 22:26 |
| MT-MW10S-082212 | 240-14454-4 | | 08/28/2012 23:01 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-14454-1

SDG No.:

Client Sample ID:  Lab Sample ID: MB 240-55983/11

Matrix: Water  Lab File ID: O1082811.D

Analysis Method: 8015C  Date Collected:

Sample wt/vol: 5(mL)  Date Analyzed: 08/28/2012 18:58

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-VRX  ID: 0.45(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 55983  Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 8006-61-9 | Total Petroleum Hydrocarbons (C6-C10) | 32.0 | J | 100 | 25 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 98-08-8 | Trifluorotoluene (Surr) | 56 | | 10-150 |

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Matrix: Water Level: Low Lab File ID: O1082812.D

Lab ID: LCS 240-55983/12 Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C6-C10) | 800 | 912 | 114 | 72-140 | |

# Column to be used to flag recovery and RPD values

FORM III 8015C

FORM III
GC VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 01082815.D

Lab ID: 240-14454-2 MS Client ID: MT-MW07S-082212 MS

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C6-C10) | 800 | 36 J | 916 | 110 | 63-143 | |

# Column to be used to flag recovery and RPD values

FORM III 8015C

FORM III
GC VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Matrix: Water Level: Low Lab File ID: O1082816.D

Lab ID: 240-14454-2 MSD Client ID: MT-MW07S-082212 MSD

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD % REC | % RPD | QC LIMITS RPD | QC LIMITS REC | # |
|---|---|---|---|---|---|---|---|
| Total Petroleum Hydrocarbons (C6-C10) | 800 | 929 | 112 | 1 | 20 | 63-143 | |

# Column to be used to flag recovery and RPD values

FORM III 8015C

# Method 8015C - DRO

## Nonhalogenated Organics using GC/FID - Modified (Diesel Range Organics) by Method 8015C

FORM II
DIESEL RANGE ORGANICS SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): RTX-5 ID: 0.53 (mm)

| Client Sample ID | Lab Sample ID | C91 # |
|---|---|---|
| MT-MW07S-082212 | 240-14454-2 | 46 |
| MT-MW08S-082212 | 240-14454-3 | 36 |
| MT-MW10S-082212 | 240-14454-4 | 54 |
| | MB 240-55631/7-A | 37 |
| | LCS 240-55631/8-A | 64 |

| | QC LIMITS |
|---|---|
| C9 = n-Nonane | 10-110 |

# Column to be used to flag recovery values

FORM II 8015C

FORM IV
DIESEL RANGE ORGANICS METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Lab Sample ID: MB 240-55631/7-A

Matrix: Water Date Extracted: 08/24/2012 11:18

Lab File ID:(1) P6F82805.D Lab File ID:(2)

Date Analyzed:(1) 08/28/2012 13:31 Date Analyzed:(2)

Instrument ID:(1) A2HP6F Instrument ID:(2)

GC Column:(1) RTX-5 ID: 0.53(mm) GC Column:(2) ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | DATE ANALYZED 1 | DATE ANALYZED 2 |
|---|---|---|---|
| | LCS 240-55631/8-A | 08/28/2012 14:02 | |
| MT-MW07S-082212 | 240-14454-2 | 08/28/2012 16:06 | |
| MT-MW10S-082212 | 240-14454-4 | 08/28/2012 17:08 | |
| MT-MW08S-082212 | 240-14454-3 | 08/29/2012 14:10 | |

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-14454-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-55631/7-A

Matrix: Water | Lab File ID: P6F82805.D

Analysis Method: 8015C | Date Collected:

Extraction Method: 3520C | Date Extracted: 08/24/2012 11:18

Sample wt/vol: 1000(mL) | Date Analyzed: 08/28/2012 13:31

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-5 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 55969 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| STL00141 | Total Petroleum Hydrocarbons (C10-C32) | 348 | J | 500 | 240 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 111-84-2 | n-Nonane | 37 | | 10-110 |

FORM III
DIESEL RANGE ORGANICS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P6F82806.D

Lab ID: LCS 240-55631/8-A Client ID:

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| Diesel | 2500 | 2400 | 96 | 36-124 | |

# Column to be used to flag recovery and RPD values

FORM III 8015C

DIESEL RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Instrument ID: A2HP5F Start Date: 08/16/2012 17:45

Analysis Batch Number: 54709 End Date: 08/16/2012 23:22

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| STD1 240-54709/12 IC | | 08/16/2012 17:45 | 1 | P5F81612.D | |
| STD2 240-54709/13 IC | | 08/16/2012 18:16 | 1 | P5F81613.D | |
| STD3 240-54709/14 ICRT | | 08/16/2012 18:47 | 1 | P5F81614.D | |
| STD4 240-54709/15 IC | | 08/16/2012 19:17 | 1 | P5F81615.D | |
| STD5 240-54709/16 IC | | 08/16/2012 19:48 | 1 | P5F81616.D | |
| ICV 240-54709/17 | | 08/16/2012 20:19 | 1 | P5F81617.D | |
| STD1 240-54709/18 IC | | 08/16/2012 20:49 | 1 | | |
| STD2 240-54709/19 IC | | 08/16/2012 21:20 | 1 | | |
| STD3 240-54709/20 ICRT | | 08/16/2012 21:50 | 1 | | |
| STD4 240-54709/21 IC | | 08/16/2012 22:21 | 1 | | |
| STD5 240-54709/22 IC | | 08/16/2012 22:52 | 1 | | |
| ICV 240-54709/23 | | 08/16/2012 23:22 | 1 | | |

FORM VI
DIESEL RANGE ORGANICS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-14454-1 Analy Batch No.: 54709

SDG No.:

Instrument ID: A2HP5F GC Column: ID: Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2012 17:45 Calibration End Date: 08/16/2012 19:48 Calibration ID: 10687

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-54709/12 | P5F81612.D |
| Level 2 | STD2 240-54709/13 | P5F81613.D |
| Level 3 | STD3 240-54709/14 | P5F81614.D |
| Level 4 | STD4 240-54709/15 | P5F81615.D |
| Level 5 | STD5 240-54709/16 | P5F81616.D |

| ANALYTE | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | | | | | RT WINDOW | AVG RT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel | 8.779 | 8.779 | 8.779 | 8.779 | 8.779 | | | | | | 4.530 - 13.026 | 8.779 |
| n-Nonane | 3.214 | 3.212 | 3.210 | 3.212 | 3.217 | | | | | | 3.144 - 3.284 | 3.213 |

FORM VI
DIESEL RANGE ORGANICS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-14454-1 Analy Batch No.: 54709

SDG No.:

Instrument ID: A2HP5F GC Column: ID: Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2012 17:45 Calibration End Date: 08/16/2012 19:48 Calibration ID: 10687

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-54709/12 | P5F81612.D |
| Level 2 | STD2 240-54709/13 | P5F81613.D |
| Level 3 | STD3 240-54709/14 | P5F81614.D |
| Level 4 | STD4 240-54709/15 | P5F81615.D |
| Level 5 | STD5 240-54709/16 | P5F81616.D |

| ANALYTE | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (NG/UL) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Diesel | Ave | 22105355 | 43007714 | 112576295 | 221980288 | 449064974 | 100 | 200 | 500 | 1000 | 2000 |
| n-Nonane | Ave | 2313072 | 4533811 | 11902707 | 23634265 | 47204698 | 10.0 | 20.0 | 50.0 | 100 | 200 |

Curve Type Legend:
Ave = Average

FORM VI
DIESEL RANGE ORGANICS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-14454-1 Analy Batch No.: 54709

SDG No.:

Instrument ID: A2HP5F GC Column: ID: Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2012 17:45 Calibration End Date: 08/16/2012 19:48 Calibration ID: 10687

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-54709/12 | P5F81612.D |
| Level 2 | STD2 240-54709/13 | P5F81613.D |
| Level 3 | STD3 240-54709/14 | P5F81614.D |
| Level 4 | STD4 240-54709/15 | P5F81615.D |
| Level 5 | STD5 240-54709/16 | P5F81616.D |

| ANALYTE | CF | | | | CURVE TYPE | COEFFICIENT | | | # | MIN CF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1 LVL 5 | LVL 2 | LVL 3 | LVL 4 | | B | M1 | M2 | | | | | | | | |
| Diesel | 221054 224532 | 215039 | 225153 | 221980 | Ave | | 221551.497 | | | | 1.8 | | 20.0 | | | |
| n-Nonane | 231307 236023 | 226691 | 238054 | 236343 | Ave | | 233683.606 | | | | 2.0 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Lab Sample ID: ICV 240-54709/17 Calibration Date: 08/16/2012 20:19

Instrument ID: A2HP5F Calib Start Date: 08/16/2012 17:45

GC Column: ID: Calib End Date: 08/16/2012 19:48

Lab File ID: P5F81617.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Diesel | Ave | 221551 | 220960 | | 499 | 500 | -0.3 | 20.0 |

FORM VII

DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Lab Sample ID: ICV 240-54709/17 Calibration Date: 08/16/2012 20:19

Instrument ID: A2HP5F Calib Start Date: 08/16/2012 17:45

GC Column: ID: Calib End Date: 08/16/2012 19:48

Lab File ID: P5F81617.D

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | TO | FROM |
| Diesel | 8.78 | 4.53 | 13.03 |

DIESEL RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Instrument ID: A2HP5F Start Date: 08/29/2012 13:40

Analysis Batch Number: 56105 End Date: 08/29/2012 14:41

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| CCV 240-56105/4 CCVRT | | 08/29/2012 13:40 | 1 | P5F82904.D | |
| 240-14454-3 | MT-MW08S-082212 | 08/29/2012 14:10 | 1 | P5F82905.D | |
| CCV 240-56105/6 | | 08/29/2012 14:41 | 1 | P5F82906.D | |

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-14454-1

SDG No.:

Lab Sample ID: CCV 240-56105/4  Calibration Date: 08/29/2012 13:40

Instrument ID: A2HP5F  Calib Start Date: 08/16/2012 17:45

GC Column:  ID:  Calib End Date: 08/16/2012 19:48

Lab File ID: P5F82904.D  Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Diesel | Ave | 221551 | 208735 | | 471 | 500 | -5.8 | 20.0 |
| n-Nonane | Ave | 233684 | 217338 | | 46.5 | 50.0 | -7.0 | 20.0 |

FORM VII

DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Lab Sample ID: CCV 240-56105/4 Calibration Date: 08/29/2012 13:40

Instrument ID: A2HP5F Calib Start Date: 08/16/2012 17:45

GC Column: ID: Calib End Date: 08/16/2012 19:48

Lab File ID: P5F82904.D

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | TO | FROM |
| Diesel | 8.77 | 4.53 | 13.02 |
| n-Nonane | 3.20 | 3.13 | 3.27 |

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-14454-1

SDG No.:

Lab Sample ID: CCV 240-56105/6  Calibration Date: 08/29/2012 14:41

Instrument ID: A2HP5F  Calib Start Date: 08/16/2012 17:45

GC Column:  ID:  Calib End Date: 08/16/2012 19:48

Lab File ID: P5F82906.D  Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Diesel | Ave | 221551 | 213758 | | 482 | 500 | -3.5 | 20.0 |
| n-Nonane | Ave | 233684 | 220750 | | 47.2 | 50.0 | -5.5 | 20.0 |

FORM VII

DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Lab Sample ID: CCV 240-56105/6 Calibration Date: 08/29/2012 14:41

Instrument ID: A2HP5F Calib Start Date: 08/16/2012 17:45

GC Column: ID: Calib End Date: 08/16/2012 19:48

Lab File ID: P5F82906.D

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | TO | FROM |
| Diesel | 8.77 | 4.53 | 13.02 |
| n-Nonane | 3.20 | 3.13 | 3.27 |

DIESEL RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Instrument ID: A2HP6F Start Date: 07/30/2012 13:26

Analysis Batch Number: 52483 End Date: 07/30/2012 18:36

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| STD1 240-52483/4 IC | | 07/30/2012 13:26 | 1 | P6F73004.D | RTX-5 0.53(mm) |
| STD2 240-52483/5 IC | | 07/30/2012 13:57 | 1 | P6F73005.D | RTX-5 0.53(mm) |
| STD3 240-52483/6 ICRT | | 07/30/2012 14:28 | 1 | P6F73006.D | RTX-5 0.53(mm) |
| STD4 240-52483/7 IC | | 07/30/2012 14:59 | 1 | P6F73007.D | RTX-5 0.53(mm) |
| STD5 240-52483/8 IC | | 07/30/2012 15:30 | 1 | P6F73008.D | RTX-5 0.53(mm) |
| ICV 240-52483/9 | | 07/30/2012 16:02 | 1 | P6F73009.D | RTX-5 0.53(mm) |
| STD1 240-52483/10 IC | | 07/30/2012 16:33 | 1 | | RTX-5 0.53(mm) |
| STD2 240-52483/11 IC | | 07/30/2012 17:04 | 1 | | RTX-5 0.53(mm) |
| STD3 240-52483/12 ICRT | | 07/30/2012 17:34 | 1 | | RTX-5 0.53(mm) |
| STD4 240-52483/13 IC | | 07/30/2012 18:05 | 1 | | RTX-5 0.53(mm) |
| STD5 240-52483/14 IC | | 07/30/2012 18:36 | 1 | | RTX-5 0.53(mm) |

FORM VI
DIESEL RANGE ORGANICS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-14454-1 Analy Batch No.: 52483

SDG No.:

Instrument ID: A2HP6F GC Column: RTX-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2012 13:26 Calibration End Date: 07/30/2012 15:30 Calibration ID: 10355

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-52483/4 | P6F73004.D |
| Level 2 | STD2 240-52483/5 | P6F73005.D |
| Level 3 | STD3 240-52483/6 | P6F73006.D |
| Level 4 | STD4 240-52483/7 | P6F73007.D |
| Level 5 | STD5 240-52483/8 | P6F73008.D |

| ANALYTE | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | | | | | RT WINDOW | AVG RT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel | 9.398 | 9.398 | 9.398 | 9.398 | 9.398 | | | | | | 5.181 - 13.615 | 9.398 |
| n-Nonane | 4.174 | 4.175 | 4.175 | 4.174 | 4.176 | | | | | | 4.124 - 4.224 | 4.175 |

FORM VI
DIESEL RANGE ORGANICS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-14454-1 Analy Batch No.: 52483

SDG No.:

Instrument ID: A2HP6F GC Column: RTX-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2012 13:26 Calibration End Date: 07/30/2012 15:30 Calibration ID: 10355

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-52483/4 | P6F73004.D |
| Level 2 | STD2 240-52483/5 | P6F73005.D |
| Level 3 | STD3 240-52483/6 | P6F73006.D |
| Level 4 | STD4 240-52483/7 | P6F73007.D |
| Level 5 | STD5 240-52483/8 | P6F73008.D |

| ANALYTE | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (NG/UL) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Diesel | Ave | 19801734 | 39012577 | 91491572 | 164937593 | 329731459 | 100 | 200 | 500 | 1000 | 2000 |
| n-Nonane | Ave | 1789719 | 3897586 | 9745006 | 18001099 | 36743063 | 10.0 | 20.0 | 50.0 | 100 | 200 |

Curve Type Legend:
Ave = Average

FORM VI
DIESEL RANGE ORGANICS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-14454-1 Analy Batch No.: 52483

SDG No.:

Instrument ID: A2HP6F GC Column: RTX-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2012 13:26 Calibration End Date: 07/30/2012 15:30 Calibration ID: 10355

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 240-52483/4 | P6F73004.D |
| Level 2 | STD2 240-52483/5 | P6F73005.D |
| Level 3 | STD3 240-52483/6 | P6F73006.D |
| Level 4 | STD4 240-52483/7 | P6F73007.D |
| Level 5 | STD5 240-52483/8 | P6F73008.D |

| ANALYTE | CF | | | | CURVE TYPE | COEFFICIENT | | | # | MIN CF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 5 | LVL 2 | LVL 3 | LVL 4 | | B | M1 | M2 | | | | | | | | |
| Diesel | 198017<br>164866 | 195063 | 182983 | 164938 | Ave | | 181173.338 | | | | 8.8 | | 20.0 | | | |
| n-Nonane | 178972<br>183715 | 194879 | 194900 | 180011 | Ave | | 186495.525 | | | | 4.2 | | 20.0 | | | |

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-14454-1

SDG No.:

Lab Sample ID: ICV 240-52483/9  Calibration Date: 07/30/2012 16:02

Instrument ID: A2HP6F  Calib Start Date: 07/30/2012 13:26

GC Column: RTX-5  ID: 0.53(mm)  Calib End Date: 07/30/2012 15:30

Lab File ID: P6F73009.D  Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Diesel | Ave | 181173 | 183339 | | 506 | 500 | 1.2 | 20.0 |

FORM VII

DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Lab Sample ID: ICV 240-52483/9 Calibration Date: 07/30/2012 16:02

Instrument ID: A2HP6F Calib Start Date: 07/30/2012 13:26

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 07/30/2012 15:30

Lab File ID: P6F73009.D

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | TO | FROM |
| Diesel | 9.40 | 5.18 | 13.62 |

DIESEL RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Instrument ID: A2HP6F Start Date: 08/28/2012 13:00

Analysis Batch Number: 55969 End Date: 08/28/2012 17:39

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| CCV 240-55969/4 CCVRT | | 08/28/2012 13:00 | 1 | P6F82804.D | RTX-5 0.53(mm) |
| MB 240-55631/7-A | | 08/28/2012 13:31 | 1 | P6F82805.D | RTX-5 0.53(mm) |
| LCS 240-55631/8-A | | 08/28/2012 14:02 | 1 | P6F82806.D | RTX-5 0.53(mm) |
| ZZZZZ | | 08/28/2012 14:33 | 1 | | RTX-5 0.53(mm) |
| ZZZZZ | | 08/28/2012 15:04 | 1 | | RTX-5 0.53(mm) |
| ZZZZZ | | 08/28/2012 15:35 | 1 | | RTX-5 0.53(mm) |
| 240-14454-2 | MT-MW07S-082212 | 08/28/2012 16:06 | 1 | P6F82810.D | RTX-5 0.53(mm) |
| ZZZZZ | | 08/28/2012 16:37 | 1 | | RTX-5 0.53(mm) |
| 240-14454-4 | MT-MW10S-082212 | 08/28/2012 17:08 | 1 | P6F82812.D | RTX-5 0.53(mm) |
| CCV 240-55969/13 | | 08/28/2012 17:39 | 1 | P6F82813.D | RTX-5 0.53(mm) |

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Lab Sample ID: CCV 240-55969/4 Calibration Date: 08/28/2012 13:00

Instrument ID: A2HP6F Calib Start Date: 07/30/2012 13:26

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 07/30/2012 15:30

Lab File ID: P6F82804.D Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Diesel | Ave | 181173 | 183218 | | 506 | 500 | 1.1 | 20.0 |
| n-Nonane | Ave | 186496 | 215459 | | 57.8 | 50.0 | 15.5 | 20.0 |

FORM VII

DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Lab Sample ID: CCV 240-55969/4 Calibration Date: 08/28/2012 13:00

Instrument ID: A2HP6F Calib Start Date: 07/30/2012 13:26

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 07/30/2012 15:30

Lab File ID: P6F82804.D

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | TO | FROM |
| Diesel | 9.39 | 5.18 | 13.61 |
| n-Nonane | 4.17 | 4.12 | 4.22 |

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton  Job No.: 240-14454-1

SDG No.:

Lab Sample ID: CCV 240-55969/13  Calibration Date: 08/28/2012 17:39

Instrument ID: A2HP6F  Calib Start Date: 07/30/2012 13:26

GC Column: RTX-5  ID: 0.53(mm)  Calib End Date: 07/30/2012 15:30

Lab File ID: P6F82813.D  Conc. Units: ng/uL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Diesel | Ave | 181173 | 186932 | | 516 | 500 | 3.2 | 20.0 |
| n-Nonane | Ave | 186496 | 221057 | | 59.3 | 50.0 | 18.5 | 20.0 |

FORM VII

DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Lab Sample ID: CCV 240-55969/13 Calibration Date: 08/28/2012 17:39

Instrument ID: A2HP6F Calib Start Date: 07/30/2012 13:26

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 07/30/2012 15:30

Lab File ID: P6F82813.D

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | TO | FROM |
| Diesel | 9.39 | 5.18 | 13.61 |
| n-Nonane | 4.17 | 4.12 | 4.22 |

# DIESEL RANGE ORGANICS BATCH WORKSHEET

Lab Name: TestAmerica Canton  Job No.: 240-14454-1

SDG No.:

Batch Number: 55631  Batch Start Date: 08/24/12 13:20  Batch Analyst: Matthews, Brandon

Batch Method: 3520C  Batch End Date: 08/25/12 07:20

| Lab Sample ID | Client Sample ID | Method Chain | Basis | InitialAmount | FinalAmount | ReceivedpH | FirstAdjustpH | EXDIESELSPKW 00019 | EXTPHSURR 00015 |
|---|---|---|---|---|---|---|---|---|---|
| 240-14454-I-2 | MT-MW07S-082212 | 3520C, 8015C | T | 1010 mL | 5 mL | 7 | 2 | | 1 mL |
| 240-14454-I-3 | MT-MW08S-082212 | 3520C, 8015C | T | 1010 mL | 5 mL | 7 | 2 | | 1 mL |
| 240-14454-J-4 | MT-MW10S-082212 | 3520C, 8015C | T | 1050 mL | 5 mL | 7 | 2 | | 1 mL |
| MB 240-55631/7 | | 3520C, 8015C | | 1000 mL | 5 mL | 7 | 2 | | 1 mL |
| LCS 240-55631/8 | | 3520C, 8015C | | 1000 mL | 5 mL | 7 | 2 | 1 mL | 1 mL |

| Batch Notes | |
|---|---|
| Person's name who did the concentration | cc/lh |
| Filter Paper Lot Number | 337128 |
| Na2SO4 Lot Number | 275338 |
| Prep Solvent Lot # | 611572 |

| Basis | Basis Description |
|---|---|
| T | Total/NA |

# METALS

COVER PAGE
METALS

Lab Name: TestAmerica Canton Job Number: 240-14454-1

SDG No.:

Project: MSA Main Terminal Groundwater Sampling

| Client Sample ID | Lab Sample ID |
|---|---|
| MT-MW07S-082212 | 240-14454-2 |
| MT-MW08S-082212 | 240-14454-3 |
| MT-MW10S-082212 | 240-14454-4 |

Comments:

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

ICV Source: MTMSICVW_00016 Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW_00047

| Analyte | ICV 240-57039/5 09/06/2012 10:16 | | | | CCV 240-57039/11 09/06/2012 10:52 | | | | CCV 240-57039/23 09/06/2012 12:02 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Antimony** | 81.6 | | 80.0 | 102 | 100 | | 100 | 100 | 99.8 | | 100 | 100 |
| **Arsenic** | 80.0 | | 80.0 | 100 | 98.1 | | 100 | 98 | 99.2 | | 100 | 99 |
| **Barium** | 79.0 | | 80.0 | 99 | 96.8 | | 100 | 97 | 97.0 | | 100 | 97 |
| **Beryllium** | 82.0 | | 80.0 | 103 | 99.3 | | 100 | 99 | 97.4 | | 100 | 97 |
| **Cadmium** | 82.5 | | 80.0 | 103 | 101 | | 100 | 101 | 101 | | 100 | 101 |
| **Chromium** | 82.0 | | 80.0 | 102 | 100 | | 100 | 100 | 100 | | 100 | 100 |
| **Cobalt** | 81.6 | | 80.0 | 102 | 101 | | 100 | 101 | 101 | | 100 | 101 |
| **Copper** | 83.9 | | 80.0 | 105 | 103 | | 100 | 103 | 104 | | 100 | 104 |
| **Lead** | 79.4 | | 80.0 | 99 | 97.8 | | 100 | 98 | 97.4 | | 100 | 97 |
| **Molybdenum** | 80.8 | | 80.0 | 101 | 106 | | 100 | 106 | 103 | | 100 | 103 |
| **Nickel** | 83.1 | | 80.0 | 104 | 103 | | 100 | 103 | 102 | | 100 | 102 |
| **Selenium** | 80.3 | | 80.0 | 100 | 99.6 | | 100 | 100 | 99.6 | | 100 | 100 |
| **Silver** | 83.6 | | 80.0 | 105 | 103 | | 100 | 103 | 103 | | 100 | 103 |
| **Thallium** | 79.3 | | 80.0 | 99 | 97.8 | | 100 | 98 | 96.9 | | 100 | 97 |
| **Vanadium** | 81.1 | | 80.0 | 101 | 99.3 | | 100 | 99 | 99.2 | | 100 | 99 |
| **Zinc** | 84.0 | | 80.0 | 105 | 102 | | 100 | 102 | 102 | | 100 | 102 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton  Job No.: 240-14454-1

SDG No.:

ICV Source: MTMSICVW_00016  Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW_00047

| Analyte | CCV 240-57039/35 09/06/2012 13:09 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Antimony** | 101 | | 100 | 101 | | | | | | | | |
| **Arsenic** | 99.1 | | 100 | 99 | | | | | | | | |
| **Barium** | 99.1 | | 100 | 99 | | | | | | | | |
| **Beryllium** | 98.4 | | 100 | 98 | | | | | | | | |
| **Cadmium** | 102 | | 100 | 102 | | | | | | | | |
| **Chromium** | 101 | | 100 | 101 | | | | | | | | |
| **Cobalt** | 101 | | 100 | 101 | | | | | | | | |
| **Copper** | 103 | | 100 | 103 | | | | | | | | |
| **Lead** | 98.7 | | 100 | 99 | | | | | | | | |
| **Molybdenum** | 103 | | 100 | 103 | | | | | | | | |
| **Nickel** | 102 | | 100 | 102 | | | | | | | | |
| **Selenium** | 101 | | 100 | 101 | | | | | | | | |
| **Silver** | 103 | | 100 | 103 | | | | | | | | |
| **Thallium** | 97.7 | | 100 | 98 | | | | | | | | |
| **Vanadium** | 99.4 | | 100 | 99 | | | | | | | | |
| **Zinc** | 102 | | 100 | 102 | | | | | | | | |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton  Job No.: 240-14454-1

SDG No.:

ICV Source: MTHGICVW_00374  Concentration Units: ug/L

CCV Source: MTHGCALW_00241

| Analyte | ICV 240-56462/7-A 08/31/2012 09:08 | | | | CCVL 240-56462/10-A 08/31/2012 09:13 | | | | CCV 240-56462/11-A 08/31/2012 09:30 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Mercury** | 2.31 | | 2.50 | 92 | 5.15 | | 5.00 | 103 | 5.24 | | 5.00 | 105 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

ICV Source: MTHGICVW_00374 Concentration Units: ug/L

CCV Source: MTHGCALW_00241

| Analyte | CCV 240-56462/11-A 08/31/2012 09:48 | | | | CCV 240-56462/11-A 08/31/2012 10:06 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Mercury** | 5.41 | | 5.00 | 108 | 5.38 | | 5.00 | 108 | | | | |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Method: 6020A Instrument ID: I8

Lab Sample ID: CRI 240-57039/8 Concentration Units: ug/L

CRQL Check Standard Source: MTMSCRI6020AW_00003

| Analyte | CRQL Check Standard | | | | |
|---|---|---|---|---|---|
| | True | Found | Qualifiers | %R(1) | Limits |
| Antimony | 2.00 | 2.07 | | 104 | 70-130 |
| Arsenic | 5.00 | 4.68 | J | 94 | 70-130 |
| Barium | 5.00 | 4.93 | J | 99 | 70-130 |
| Beryllium | 1.00 | 1.05 | | 105 | 70-130 |
| Cadmium | 1.00 | 1.13 | | 113 | 70-130 |
| Chromium | 2.00 | 2.05 | | 103 | 70-130 |
| Cobalt | 1.00 | 1.07 | | 107 | 70-130 |
| Copper | 2.00 | 2.36 | | 118 | 70-130 |
| Lead | 1.00 | 1.05 | | 105 | 70-130 |
| Molybdenum | 10.0 | 10.4 | | 104 | 70-130 |
| Nickel | 2.00 | 2.37 | | 119 | 70-130 |
| Selenium | 5.00 | 5.40 | | 108 | 70-130 |
| Silver | 1.00 | 1.12 | | 112 | 70-130 |
| Thallium | 2.00 | 2.04 | | 102 | 70-130 |
| Vanadium | 5.00 | 5.04 | J | 101 | 70-130 |
| Zinc | 20.0 | 22.8 | | 114 | 70-130 |

Lab Sample ID: CRI 240-57039/43 Concentration Units: ug/L

CRQL Check Standard Source: MTMSCRI6020AW_00003

| Analyte | CRQL Check Standard | | | | |
|---|---|---|---|---|---|
| | True | Found | Qualifiers | %R(1) | Limits |
| Antimony | 2.00 | 2.06 | | 103 | 70-130 |
| Arsenic | 5.00 | 4.76 | J | 95 | 70-130 |
| Barium | 5.00 | 4.90 | J | 98 | 70-130 |
| Beryllium | 1.00 | 1.05 | | 105 | 70-130 |
| Cadmium | 1.00 | 1.05 | | 105 | 70-130 |
| Chromium | 2.00 | 2.10 | | 105 | 70-130 |
| Cobalt | 1.00 | 1.08 | | 108 | 70-130 |
| Copper | 2.00 | 2.34 | | 117 | 70-130 |
| Lead | 1.00 | 1.05 | | 105 | 70-130 |
| Molybdenum | 10.0 | 9.97 | J | 100 | 70-130 |
| Nickel | 2.00 | 2.13 | | 107 | 70-130 |
| Selenium | 5.00 | 4.78 | J | 96 | 70-130 |
| Silver | 1.00 | 1.14 | | 114 | 70-130 |
| Thallium | 2.00 | 1.90 | J | 95 | 70-130 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Method: 6020A Instrument ID: I8

Lab Sample ID: CRI 240-57039/43 Concentration Units: ug/L

CRQL Check Standard Source: MTMSCRI6020AW_00003

| Analyte | CRQL Check Standard | | | | |
|---|---|---|---|---|---|
| | True | Found | Qualifiers | %R(1) | Limits |
| Vanadium | 5.00 | 4.97 | J | 99 | 70-130 |
| Zinc | 20.0 | 22.8 | | 114 | 70-130 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Method: 7470A Instrument ID: H1

Lab Sample ID: CRA 240-56462/9-A Concentration Units: ug/L

CRQL Check Standard Source: MTHGCALW_00241

| Analyte | CRQL Check Standard | | | | |
|---|---|---|---|---|---|
| | True | Found | Qualifiers | %R(1) | Limits |
| Mercury | 0.200 | 0.176 | J | 88 | 50-150 |

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton  Job No.: 240-14454-1

SDG No.:

Lab Sample ID: ICSA 240-57039/9  Instrument ID: I8

Lab File ID: I8090612A.csv  ICS Source: MTMSICSAW_00017

Concentration Units: ug/L

| Analyte | True Solution A | Found Solution A | Percent Recovery |
|---|---|---|---|
| **Antimony** | | **0.164** | |
| **Arsenic** | | **0.303** | |
| **Barium** | | **0.172** | |
| **Beryllium** | | **0.0270** | |
| **Cadmium** | | **-0.138** | |
| **Chromium** | | **0.585** | |
| **Cobalt** | | **0.0930** | |
| **Copper** | | **0.291** | |
| **Lead** | | **0.117** | |
| **Molybdenum** | **1000** | **1014** | **101** |
| **Nickel** | | **0.449** | |
| **Selenium** | | **0.114** | |
| **Silver** | | **0.0420** | |
| **Thallium** | | **0.158** | |
| **Vanadium** | | **0.233** | |
| **Zinc** | | **1.54** | |
| *Aluminum* | *50000* | *50930* | *102* |
| *Boron* | | *-0.0910* | |
| *Calcium* | *50000* | *52880* | *106* |
| *Iron* | *50000* | *51590* | *103* |
| *Magnesium* | *50000* | *52630* | *105* |
| *Manganese* | | *0.193* | |
| *Potassium* | *50000* | *53350* | *107* |
| *Sodium* | *50000* | *52780* | *106* |
| *Strontium* | | *0.242* | |
| *Tin* | | *0.126* | |
| *Titanium* | *1000* | *1052* | *105* |
| *Tungsten* | | *0.353* | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton  Job No.: 240-14454-1

SDG No.:

Lab Sample ID: ICSAB 240-57039/10  Instrument ID: I8

Lab File ID: I8090612A.csv  ICS Source: MTMSICSABW_00017

Concentration Units: ug/L

| Analyte | True Solution AB | Found Solution AB | Percent Recovery |
|---|---|---|---|
| **Antimony** | **100** | **101** | **101** |
| **Arsenic** | **100** | **97.1** | **97** |
| **Barium** | **100** | **98.5** | **98** |
| **Beryllium** | **100** | **102** | **102** |
| **Cadmium** | **100** | **100** | **100** |
| **Chromium** | **100** | **104** | **104** |
| **Cobalt** | **100** | **101** | **101** |
| **Copper** | **100** | **101** | **101** |
| **Lead** | **100** | **99.6** | **100** |
| **Molybdenum** | **1100** | **1122** | **102** |
| **Nickel** | **100** | **102** | **102** |
| **Selenium** | **100** | **98.2** | **98** |
| **Silver** | **100** | **103** | **103** |
| **Thallium** | **100** | **99.7** | **100** |
| **Vanadium** | **100** | **103** | **103** |
| **Zinc** | **100** | **104** | **104** |
| *Aluminum* | *50000* | *51150* | *102* |
| *Boron* | *100* | *98.6* | *99* |
| *Calcium* | *50000* | *52880* | *106* |
| *Iron* | *50000* | *52530* | *105* |
| *Magnesium* | *50000* | *53580* | *107* |
| *Manganese* | *100* | *106* | *106* |
| *Potassium* | *50000* | *53560* | *107* |
| *Sodium* | *50000* | *53670* | *107* |
| *Strontium* | *100* | *95.4* | *95* |
| *Tin* | *100* | *101* | *101* |
| *Titanium* | *1100* | *1177* | *107* |
| *Tungsten* | *100* | *107* | *107* |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

3-IN
METHOD BLANK
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton  Job No.: 240-14454-1

SDG No.:

Concentration Units: ug/L  Lab Sample ID: MB 240-56218/1-A

Instrument Code: I8  Batch No.: 57039

| CAS No. | Analyte | Concentration | C | Q | Method |
|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 2.0 | U | | 6020A |
| 7440-38-2 | Arsenic | 5.0 | U | | 6020A |
| 7440-39-3 | Barium | 0.678 | J | | 6020A |
| 7440-41-7 | Beryllium | 1.0 | U | | 6020A |
| 7440-43-9 | Cadmium | 1.0 | U | | 6020A |
| 7440-47-3 | Chromium | 2.0 | U | | 6020A |
| 7440-48-4 | Cobalt | 1.0 | U | | 6020A |
| 7440-50-8 | Copper | 0.514 | J | | 6020A |
| 7439-92-1 | Lead | 1.0 | U | | 6020A |
| 7439-98-7 | Molybdenum | 0.557 | J | | 6020A |
| 7440-02-0 | Nickel | 2.0 | U | | 6020A |
| 7782-49-2 | Selenium | 5.0 | U | | 6020A |
| 7440-22-4 | Silver | 1.0 | U | | 6020A |
| 7440-28-0 | Thallium | 0.225 | J | | 6020A |
| 7440-62-2 | Vanadium | 20 | U | | 6020A |
| 7440-66-6 | Zinc | 6.90 | J | | 6020A |

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 240-56220/1-A

Instrument Code: H1 Batch No.: 56469

| CAS No. | Analyte | Concentration | C | Q | Method |
|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.20 | U | | 7470A |

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Concentration Units: ug/L

| Analyte | RL | ICB 240-57039/6 09/06/2012 10:23 | | CCB 240-57039/12 09/06/2012 10:59 | | CCB 240-57039/24 09/06/2012 12:09 | | CCB 240-57039/36 09/06/2012 13:16 | |
|---|---|---|---|---|---|---|---|---|---|
| | | Found | C | Found | C | Found | C | Found | C |
| **Antimony** | 2.0 | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U |
| **Arsenic** | 5.0 | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| **Barium** | 5.0 | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| **Beryllium** | 1.0 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| **Cadmium** | 1.0 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| **Chromium** | 2.0 | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U |
| **Cobalt** | 1.0 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| **Copper** | 2.0 | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U |
| **Lead** | 1.0 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| **Molybdenum** | 10 | 0.400 | J | 1.08 | J | 0.420 | J | 0.370 | J |
| **Nickel** | 2.0 | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U |
| **Selenium** | 5.0 | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| **Silver** | 1.0 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| **Thallium** | 2.0 | 0.386 | J | 0.376 | J | 0.351 | J | 0.299 | J |
| **Vanadium** | 20 | 20 | U | 20 | U | 20 | U | 20 | U |
| **Zinc** | 20 | 20 | U | 20 | U | 20 | U | 20 | U |

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Concentration Units: ug/L

| Analyte | RL | ICB 240-56462/8-A 08/31/2012 09:10 | | CCB 240-56462/12-A 08/31/2012 09:15 | | CCB 240-56462/12-A 08/31/2012 09:31 | | CCB 240-56462/12-A 08/31/2012 09:50 | |
|---|---|---|---|---|---|---|---|---|---|
| | | Found | C | Found | C | Found | C | Found | C |
| **Mercury** | 0.20 | 0.20 | U | 0.20 | U | 0.20 | U | 0.20 | U |

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Concentration Units: ug/L

| Analyte | RL | CCB 240-56462/12-A 08/31/2012 10:07 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Found | C | Found | C | Found | C | Found | C |
| **Mercury** | 0.20 | 0.20 | U | | | | | | |

Italicized analytes were not requested for this sequence.

7A-IN
LAB CONTROL SAMPLE
METALS - TOTAL RECOVERABLE

Lab ID: LCS 240-56218/2-A

Lab Name: TestAmerica Canton  Job No.: 240-14454-1

Sample Matrix: Water  LCS Source: MTICPMSB_00009

| Analyte | Water(ug/L) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | True | Found | C | %R | Limits | | Q | Method |
| Antimony | 100 | 93.9 | | 94 | 80 | 120 | | 6020A |
| Arsenic | 1000 | 926 | | 93 | 80 | 120 | | 6020A |
| Barium | 1000 | 897 | | 90 | 80 | 120 | | 6020A |
| Beryllium | 1000 | 954 | | 95 | 80 | 120 | | 6020A |
| Cadmium | 1000 | 967 | | 97 | 80 | 120 | | 6020A |
| Chromium | 1000 | 948 | | 95 | 80 | 120 | | 6020A |
| Cobalt | 1000 | 902 | | 90 | 80 | 120 | | 6020A |
| Copper | 1000 | 1000 | | 100 | 80 | 120 | | 6020A |
| Lead | 1000 | 864 | | 86 | 80 | 120 | | 6020A |
| Molybdenum | 100 | 92.0 | | 92 | 80 | 120 | | 6020A |
| Nickel | 1000 | 962 | | 96 | 80 | 120 | | 6020A |
| Selenium | 1000 | 945 | | 94 | 80 | 120 | | 6020A |
| Silver | 100 | 101 | | 101 | 80 | 120 | | 6020A |
| Thallium | 250 | 211 | | 84 | 80 | 120 | | 6020A |
| Vanadium | 1000 | 920 | | 92 | 80 | 120 | | 6020A |
| Zinc | 1000 | 1010 | | 101 | 80 | 120 | | 6020A |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 240-56220/2-A

Lab Name: TestAmerica Canton  Job No.: 240-14454-1

Sample Matrix: Water  LCS Source: MTHGICVW_00373

| Analyte | Water(ug/L) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | True | Found | C | %R | Limits | | Q | Method |
| Mercury | 5.00 | 4.86 | | 97 | 81 | 123 | | 7470A |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: MT-MW10S-082212 MS
Lab ID: 240-14454-4 MS
Lab Name: TestAmerica Canton
Job No.: 240-14454-1
SDG No.:
Matrix: Water
Concentration Units: ug/L
% Solids:

| Analyte | SSR C | | Sample Result (SR) C | | Spike Added (SA) | %R | Control Limit %R | Q | Method |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.950 | | 0.20 | U | 1.00 | 95 | 69-134 | | 7470A |

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS - TOTAL RECOVERABLE

Client ID: _____ Lab ID: 240-14408-H-2-C MS

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.: _____

Matrix: Water Concentration Units: ug/L

% Solids: _____

| Analyte | SSR | C | Sample Result (SR) | C | Spike Added (SA) | %R | Control Limit %R | Q | Method |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 96.2 | | 1.9 | J | 100 | 94 | 44-153 | | 6020A |
| Arsenic | 922 | | 0.60 | J | 1000 | 92 | 82-123 | | 6020A |
| Barium | 968 | | 59 | | 1000 | 91 | 45-144 | | 6020A |
| Beryllium | 929 | | 1.8 | | 1000 | 93 | 77-124 | | 6020A |
| Cadmium | 970 | | 1.0 | U | 1000 | 97 | 78-117 | | 6020A |
| Chromium | 957 | | 1.8 | J | 1000 | 96 | 72-110 | | 6020A |
| Cobalt | 906 | | 7.6 | | 1000 | 90 | 67-114 | | 6020A |
| Copper | 987 | | 2.2 | | 1000 | 98 | 60-123 | | 6020A |
| Lead | 886 | | 0.79 | J | 1000 | 89 | 73-115 | | 6020A |
| Molybdenum | 94.0 | | 1.9 | J | 100 | 92 | 80-110 | | 6020A |
| Nickel | 959 | | 12 | | 1000 | 95 | 72-111 | | 6020A |
| Selenium | 922 | | 0.62 | J | 1000 | 92 | 72-148 | | 6020A |
| Silver | 100 | | 1.0 | U | 100 | 100 | 10-139 | | 6020A |
| Thallium | 216 | | 0.57 | J | 250 | 86 | 69-117 | | 6020A |
| Vanadium | 931 | | 0.84 | J | 1000 | 93 | 70-112 | | 6020A |
| Zinc | 1020 | | 43 | | 1000 | 98 | 49-156 | | 6020A |

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

6-IN
DUPLICATES
METALS

Client ID: MT-MW10S-082212 DU | Lab ID: 240-14454-4 DU

Lab Name: TestAmerica Canton | Job No.: 240-14454-1

SDG No.:

% Solids for Sample: | % Solids for Duplicate:

Matrix: Water | Concentration Units: ug/L

| Analyte | Control Limit | Sample (S) | C | Duplicate (D) | C | RPD | Q | Method |
|---|---|---|---|---|---|---|---|---|
| Mercury | 0.20 | 0.20 | U | 0.20 | U | NC | | 7470A |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

6-IN
DUPLICATES
METALS - TOTAL RECOVERABLE

Client ID: _____ Lab ID: 240-14408-H-2-B DU

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.: _____

% Solids for Sample: _____ % Solids for Duplicate: _____

Matrix: Water Concentration Units: ug/L

| Analyte | Control Limit | Sample (S) | C | Duplicate (D) | C | RPD | Q | Method |
|---|---|---|---|---|---|---|---|---|
| Antimony | 2.0 | 1.9 | J | 1.90 | J | 2 | | 6020A |
| Arsenic | 5.0 | 0.60 | J | 0.513 | J | 16 | | 6020A |
| Barium | 5.0 | 59 | | 57.9 | | 1 | | 6020A |
| Beryllium | 1.0 | 1.8 | | 1.85 | | 5 | | 6020A |
| Cadmium | 1.0 | 1.0 | U | 1.0 | U | NC | | 6020A |
| Chromium | 2.0 | 1.8 | J | 2.28 | | 24 | | 6020A |
| Cobalt | 1.0 | 7.6 | | 7.41 | | 2 | | 6020A |
| Copper | 2.0 | 2.2 | | 2.35 | | 5 | | 6020A |
| Lead | 1.0 | 0.79 | J | 0.757 | J | 4 | | 6020A |
| Molybdenum | 10 | 1.9 | J | 1.67 | J | 15 | | 6020A |
| Nickel | 2.0 | 12 | | 12.7 | | 4 | | 6020A |
| Selenium | 5.0 | 0.62 | J | 5.0 | U | NC | | 6020A |
| Silver | 1.0 | 1.0 | U | 1.0 | U | NC | | 6020A |
| Thallium | 2.0 | 0.57 | J | 0.255 | J | 77 | | 6020A |
| Vanadium | 20 | 0.84 | J | 0.596 | J | 34 | | 6020A |
| Zinc | 20 | 43 | | 46.2 | | 8 | | 6020A |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS - TOTAL RECOVERABLE

Lab ID: 240-14408-H-2-A SD ^5

SDG No:

Lab Name: TestAmerica Canton Job No: 240-14454-1

Matrix: Water Concentration Units: ug/L

| Analyte | Initial Sample Result (I) | C | Serial Dilution Result (S) | C | % Difference | Q | Method |
|---|---|---|---|---|---|---|---|
| Antimony | 1.9 | J | 2.11 | J | NC | | 6020A |
| Arsenic | 0.60 | J | 25 | U | NC | | 6020A |
| Barium | 59 | | 58.6 | | NC | | 6020A |
| Beryllium | 1.8 | | 2.10 | J | NC | | 6020A |
| Cadmium | 1.0 | U | 5.0 | U | NC | | 6020A |
| Chromium | 1.8 | J | 10 | U | NC | | 6020A |
| Cobalt | 7.6 | | 7.57 | | NC | | 6020A |
| Copper | 2.2 | | 2.84 | J | NC | | 6020A |
| Lead | 0.79 | J | 0.945 | J | NC | | 6020A |
| Molybdenum | 1.9 | J | 2.85 | J | NC | | 6020A |
| Nickel | 12 | | 12.9 | | NC | | 6020A |
| Selenium | 0.62 | J | 25 | U | NC | | 6020A |
| Silver | 1.0 | U | 5.0 | U | NC | | 6020A |
| Thallium | 0.57 | J | 1.46 | J | NC | | 6020A |
| Vanadium | 0.84 | J | 100 | U | NC | | 6020A |
| Zinc | 43 | | 50.4 | J | NC | | 6020A |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton  Job Number: 240-14454-1

SDG Number:

Matrix: Water  Instrument ID: I8

Method: 6020A  MDL Date: 02/09/2010 15:53

Prep Method: 3005A

| Analyte | Wavelength/ Mass | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| Antimony | 121.00 | 2 | 0.13 |
| Arsenic | 75.00 | 5 | 0.4 |
| Barium | 137.00 | 5 | 0.19 |
| Beryllium | 9.00 | 1 | 0.2 |
| Cadmium | 111.00 | 1 | 0.13 |
| Chromium | 52.00 | 2 | 0.71 |
| Cobalt | 59.00 | 1 | 0.058 |
| Copper | 65.00 | 2 | 0.29 |
| Lead | 208.00 | 1 | 0.18 |
| Molybdenum | 95.00 | 10 | 0.093 |
| Nickel | 60.00 | 2 | 0.2 |
| Selenium | 78.00 | 5 | 0.57 |
| Silver | 107.00 | 1 | 0.08 |
| Thallium | 205.00 | 2 | 0.14 |
| Vanadium | 51.00 | 20 | 0.44 |
| Zinc | 66.00 | 20 | 2.3 |

9-IN

CALIBRATION BLANK DETECTION LIMITS

METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job Number: 240-14454-1

SDG Number:

Matrix: Water Instrument ID: I8

Method: 6020A XMDL Date: 02/09/2010 15:53

| Analyte | Wavelength/ Mass | XRL (ug/L) | XMDL (ug/L) |
|---|---|---|---|
| Antimony | 121.00 | 2 | 0.13 |
| Arsenic | 75.00 | 5 | 0.4 |
| Barium | 137.00 | 5 | 0.19 |
| Beryllium | 9.00 | 1 | 0.2 |
| Cadmium | 111.00 | 1 | 0.13 |
| Chromium | 52.00 | 2 | 0.71 |
| Cobalt | 59.00 | 1 | 0.058 |
| Copper | 65.00 | 2 | 0.29 |
| Lead | 208.00 | 1 | 0.18 |
| Molybdenum | 95.00 | 10 | 0.093 |
| Nickel | 60.00 | 2 | 0.2 |
| Selenium | 78.00 | 5 | 0.57 |
| Silver | 107.00 | 1 | 0.08 |
| Thallium | 205.00 | 2 | 0.14 |
| Vanadium | 51.00 | 20 | 0.44 |
| Zinc | 66.00 | 20 | 2.3 |

9-IN
DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Canton  Job Number: 240-14454-1

SDG Number:

Matrix: Water  Instrument ID: I8

Method: 6020A  MDL Date: 02/09/2010 15:53

Prep Method: 3005A

| Analyte | Wavelength/ Mass | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| Antimony | 121.00 | 2 | 0.13 |
| Arsenic | 75.00 | 5 | 0.4 |
| Barium | 137.00 | 5 | 0.19 |
| Beryllium | 9.00 | 1 | 0.2 |
| Cadmium | 111.00 | 1 | 0.13 |
| Chromium | 52.00 | 2 | 0.71 |
| Cobalt | 59.00 | 1 | 0.058 |
| Copper | 65.00 | 2 | 0.29 |
| Lead | 208.00 | 1 | 0.18 |
| Molybdenum | 95.00 | 10 | 0.093 |
| Nickel | 60.00 | 2 | 0.2 |
| Selenium | 78.00 | 5 | 0.57 |
| Silver | 107.00 | 1 | 0.08 |
| Thallium | 205.00 | 2 | 0.14 |
| Vanadium | 51.00 | 20 | 0.44 |
| Zinc | 66.00 | 20 | 2.3 |

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Canton Job Number: 240-14454-1

SDG Number:

Matrix: Water Instrument ID: I8

Method: 6020A XMDL Date: 02/09/2010 15:53

| Analyte | Wavelength/ Mass | XRL (ug/L) | XMDL (ug/L) |
|---|---|---|---|
| Antimony | 121.00 | 2 | 0.13 |
| Arsenic | 75.00 | 5 | 0.4 |
| Barium | 137.00 | 5 | 0.19 |
| Beryllium | 9.00 | 1 | 0.2 |
| Cadmium | 111.00 | 1 | 0.13 |
| Chromium | 52.00 | 2 | 0.71 |
| Cobalt | 59.00 | 1 | 0.058 |
| Copper | 65.00 | 2 | 0.29 |
| Lead | 208.00 | 1 | 0.18 |
| Molybdenum | 95.00 | 10 | 0.093 |
| Nickel | 60.00 | 2 | 0.2 |
| Selenium | 78.00 | 5 | 0.57 |
| Silver | 107.00 | 1 | 0.08 |
| Thallium | 205.00 | 2 | 0.14 |
| Vanadium | 51.00 | 20 | 0.44 |
| Zinc | 66.00 | 20 | 2.3 |

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Canton  Job Number: 240-14454-1

SDG Number:

Matrix: Water  Instrument ID: H1

Method: 7470A  MDL Date: 02/08/2010 16:06

Prep Method: 7470A

| Analyte | Wavelength/ Mass | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| Mercury | 253.7 | 0.2 | 0.12 |

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Canton  Job Number: 240-14454-1

SDG Number:

Matrix: Water  Instrument ID: H1

Method: 7470A  XMDL Date: 02/08/2010 16:06

| Analyte | Wavelength/ Mass | XRL (ug/L) | XMDL (ug/L) |
|---|---|---|---|
| Mercury | 253.7 | 0.2 | 0.12 |

9-IN
DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Canton  Job Number: 240-14454-1

SDG Number:

Matrix: Water  Instrument ID: H1

Method: 7470A  MDL Date: 02/08/2010 16:06

Prep Method: 7470A

| Analyte | Wavelength/ Mass | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| Mercury | 253.7 | 0.2 | 0.12 |

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Canton Job Number: 240-14454-1

SDG Number:

Matrix: Water Instrument ID: H1

Method: 7470A XMDL Date: 02/08/2010 16:06

| Analyte | Wavelength/ Mass | XRL (ug/L) | XMDL (ug/L) |
|---|---|---|---|
| Mercury | 253.7 | 0.2 | 0.12 |

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Canton Job No: 240-14454-1

SDG No.:

Instrument ID: I8 Date: 06/18/2012 15:26

| Analyte | Integ. Time (Sec.) | Concentration (ppb) | Method |
|---|---|---|---|
| Antimony | | 2000 | 6020A |
| Arsenic | | 10000 | 6020A |
| Barium | | 10000 | 6020A |
| Beryllium | | 10000 | 6020A |
| Cadmium | | 10000 | 6020A |
| Chromium | | 10000 | 6020A |
| Cobalt | | 10000 | 6020A |
| Copper | | 10000 | 6020A |
| Lead | | 10000 | 6020A |
| Molybdenum | | 2000 | 6020A |
| Nickel | | 10000 | 6020A |
| Selenium | | 10000 | 6020A |
| Silver | | 2000 | 6020A |
| Thallium | | 10000 | 6020A |
| Vanadium | | 10000 | 6020A |
| Zinc | | 10000 | 6020A |

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Canton Job No: 240-14454-1

SDG No.:

Instrument ID: H1 Date: 04/01/2011 10:45

| Analyte | Integ. Time (Sec.) | Concentration (ppb) | Method |
|---|---|---|---|
| Mercury | | 10 | 7470A |

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Prep Method: 3005A

| Lab Sample ID | Preparation Date | Prep Batch | Initial Weight | Initial Volume (mL) | Final Volume (mL) |
|---|---|---|---|---|---|
| MB 240-56218/1-A | 08/30/2012 07:45 | 56218 | | 50 | 50 |
| LCS 240-56218/2-A | 08/30/2012 07:45 | 56218 | | 50 | 50 |
| 240-14408-H-2-B DU | 08/30/2012 07:45 | 56218 | | 50 | 50 |
| 240-14408-H-2-C MS | 08/30/2012 07:45 | 56218 | | 50 | 50 |
| 240-14454-2 | 08/30/2012 07:45 | 56218 | | 50 | 50 |
| 240-14454-2 | 08/30/2012 07:45 | 56218 | | 50 | 50 |
| 240-14454-3 | 08/30/2012 07:45 | 56218 | | 50 | 50 |
| 240-14454-3 | 08/30/2012 07:45 | 56218 | | 50 | 50 |
| 240-14454-4 | 08/30/2012 07:45 | 56218 | | 50 | 50 |
| 240-14454-4 | 08/30/2012 07:45 | 56218 | | 50 | 50 |

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Prep Method: 7470A

| Lab Sample ID | Preparation Date | Prep Batch | Initial Weight | Initial Volume (mL) | Final Volume (mL) |
|---|---|---|---|---|---|
| MB 240-56220/1-A | 08/30/2012 14:00 | 56220 | | 100 | 100 |
| LCS 240-56220/2-A | 08/30/2012 14:00 | 56220 | | 100 | 100 |
| 240-14454-2 | 08/30/2012 14:00 | 56220 | | 100 | 100 |
| 240-14454-2 | 08/30/2012 14:00 | 56220 | | 100 | 100 |
| 240-14454-3 | 08/30/2012 14:00 | 56220 | | 100 | 100 |
| 240-14454-3 | 08/30/2012 14:00 | 56220 | | 100 | 100 |
| 240-14454-4 | 08/30/2012 14:00 | 56220 | | 100 | 100 |
| 240-14454-4 DU | 08/30/2012 14:00 | 56220 | | 100 | 100 |
| 240-14454-4 MS | 08/30/2012 14:00 | 56220 | | 100 | 100 |
| 240-14454-4 | 08/30/2012 14:00 | 56220 | | 100 | 100 |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Instrument ID: I8 Method: 6020A

Start Date: 09/06/2012 09:53 End Date: 09/06/2012 17:32

| Lab Sample ID | D/F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Ag | As | Ba | Be | Cd | Co | Cr | Cu | Mo | Ni | Pb | Sb | Se | Tl | V | Zn | | | | |
| ICIS 240-57039/1 | | | 09:53 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| STD2 240-57039/2 IC | 1 | | 09:58 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| STD3 240-57039/3 IC | 1 | | 10:05 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| STD4 240-57039/4 IC | 1 | | 10:11 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| ICV 240-57039/5 | 1 | | 10:16 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| ICB 240-57039/6 | 1 | | 10:23 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| CRI 240-57039/7 | | | 10:28 | | | | | | | | | | | | | | | | | | | | |
| CRI 240-57039/8 | 1 | | 10:32 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| ICSA 240-57039/9 | 1 | | 10:38 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| ICSAB 240-57039/10 | 1 | | 10:43 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| CCV 240-57039/11 | 1 | | 10:52 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| CCB 240-57039/12 | 1 | | 10:59 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| MB 240-56218/1-A | 1 | R | 11:04 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| LCS 240-56218/2-A | 1 | R | 11:09 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| ZZZZZZ | | | 11:16 | | | | | | | | | | | | | | | | | | | | |
| 240-14408-H-2-A SD ^5 | 5 | R | 11:22 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| 240-14408-H-2-B DU | 1 | R | 11:27 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| 240-14408-H-2-C MS | 1 | R | 11:32 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| ZZZZZZ | | | 11:40 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:45 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:51 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:57 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-57039/23 | 1 | | 12:02 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| CCB 240-57039/24 | 1 | | 12:09 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| ZZZZZZ | | | 12:15 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:20 | | | | | | | | | | | | | | | | | | | | |
| 240-14454-2 | 1 | R | 12:26 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| 240-14454-2 | 1 | D | 12:31 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| 240-14454-3 | 1 | R | 12:36 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| 240-14454-3 | 1 | D | 12:42 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| 240-14454-4 | 1 | R | 12:47 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| 240-14454-4 | 1 | D | 12:53 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| ZZZZZZ | | | 12:58 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:04 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-57039/35 | 1 | | 13:09 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| CCB 240-57039/36 | 1 | | 13:16 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| ZZZZZZ | | | 13:22 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:27 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:33 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:38 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:44 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:49 | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Instrument ID: I8 Method: 6020A

Start Date: 09/06/2012 09:53 End Date: 09/06/2012 17:32

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Ag | As | Ba | Be | Cd | Co | Cr | Cu | Mo | Ni | Pb | Sb | Se | Tl | V | Zn | | | | |
| CRI 240-57039/43 | 1 | | 13:54 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | |
| ZZZZZZ | | | 14:00 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-57039/45 | | | 14:07 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-57039/46 | | | 14:14 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:20 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:25 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-57039/49 | | | 14:33 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-57039/50 | | | 14:40 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:45 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:51 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:56 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:03 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:10 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:16 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:21 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:27 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:32 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:38 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-57039/61 | | | 15:43 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-57039/62 | | | 15:51 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:56 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:02 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:07 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:13 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:18 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:24 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:29 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:40 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:46 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-57039/73 | | | 16:51 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-57039/74 | | | 16:58 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:03 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:09 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:14 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:20 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-57039/79 | | | 17:25 | | | | | | | | | | | | | | | | | | | | |
| CCB 240-57039/80 | | | 17:32 | | | | | | | | | | | | | | | | | | | | |

Prep Types
D = Dissolved
R = Total Recoverable

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Instrument ID: H1 Method: 7470A

Start Date: 08/31/2012 09:00 End Date: 08/31/2012 11:40

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Hg | | | | | | | | | | | | | | | | | | | |
| IC 240-56462/1-A | | | 09:00 | X | | | | | | | | | | | | | | | | | | | |
| IC 240-56462/2-A | | | 09:01 | X | | | | | | | | | | | | | | | | | | | |
| IC 240-56462/3-A | | | 09:02 | X | | | | | | | | | | | | | | | | | | | |
| IC 240-56462/4-A | | | 09:03 | X | | | | | | | | | | | | | | | | | | | |
| IC 240-56462/5-A | | | 09:05 | X | | | | | | | | | | | | | | | | | | | |
| IC 240-56462/6-A | | | 09:07 | X | | | | | | | | | | | | | | | | | | | |
| ICV 240-56462/7-A | 1 | | 09:08 | X | | | | | | | | | | | | | | | | | | | |
| ICB 240-56462/8-A | 1 | | 09:10 | X | | | | | | | | | | | | | | | | | | | |
| CRA 240-56462/9-A | 1 | | 09:11 | X | | | | | | | | | | | | | | | | | | | |
| CCVL 240-56462/10-A | 1 | | 09:13 | X | | | | | | | | | | | | | | | | | | | |
| CCB 240-56462/12-A | 1 | | 09:15 | X | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:16 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:17 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:19 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:20 | | | | | | | | | | | | | | | | | | | | |
| MB 240-56220/1-A | 1 | T | 09:21 | X | | | | | | | | | | | | | | | | | | | |
| LCS 240-56220/2-A | 1 | T | 09:23 | X | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:24 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:25 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:27 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:28 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-56462/11-A | 1 | | 09:30 | X | | | | | | | | | | | | | | | | | | | |
| CCB 240-56462/12-A | 1 | | 09:31 | X | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:32 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:34 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:36 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:37 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:39 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:40 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:42 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:44 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:45 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:47 | | | | | | | | | | | | | | | | | | | | |
| CCV 240-56462/11-A | 1 | | 09:48 | X | | | | | | | | | | | | | | | | | | | |
| CCB 240-56462/12-A | 1 | | 09:50 | X | | | | | | | | | | | | | | | | | | | |
| 240-14454-2 | 1 | T | 09:51 | X | | | | | | | | | | | | | | | | | | | |
| 240-14454-2 | 1 | D | 09:53 | X | | | | | | | | | | | | | | | | | | | |
| 240-14454-3 | 1 | T | 09:54 | X | | | | | | | | | | | | | | | | | | | |
| 240-14454-3 | 1 | D | 09:56 | X | | | | | | | | | | | | | | | | | | | |
| 240-14454-4 | 1 | T | 09:57 | X | | | | | | | | | | | | | | | | | | | |
| 240-14454-4 DU | 1 | T | 09:59 | X | | | | | | | | | | | | | | | | | | | |
| 240-14454-4 MS | 1 | T | 10:00 | X | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Instrument ID: H1 Method: 7470A

Start Date: 08/31/2012 09:00 End Date: 08/31/2012 11:40

| Lab Sample ID | D / F | Type | Time | Analytes |
|---|---|---|---|---|
| | | | | Hg |
| 240-14454-4 | 1 | D | 10:01 | X |
| ZZZZZZ | | | 10:03 | |
| ZZZZZZ | | | 10:05 | |
| CCV 240-56462/11-A | 1 | | 10:06 | X |
| CCB 240-56462/12-A | 1 | | 10:07 | X |
| ZZZZZZ | | | 10:09 | |
| ZZZZZZ | | | 10:11 | |
| ZZZZZZ | | | 10:12 | |
| ZZZZZZ | | | 10:14 | |
| ZZZZZZ | | | 10:16 | |
| ZZZZZZ | | | 10:17 | |
| ZZZZZZ | | | 10:19 | |
| ZZZZZZ | | | 10:21 | |
| ZZZZZZ | | | 10:22 | |
| ZZZZZZ | | | 10:23 | |
| CCV 240-56462/11-A | | | 10:25 | |
| CCB 240-56462/12-A | | | 10:27 | |
| ZZZZZZ | | | 10:28 | |
| ZZZZZZ | | | 10:30 | |
| ZZZZZZ | | | 10:32 | |
| ZZZZZZ | | | 10:34 | |
| ZZZZZZ | | | 10:35 | |
| ZZZZZZ | | | 10:37 | |
| ZZZZZZ | | | 10:38 | |
| ZZZZZZ | | | 10:40 | |
| ZZZZZZ | | | 10:41 | |
| ZZZZZZ | | | 10:42 | |
| CCV 240-56462/11-A | | | 10:44 | |
| CCB 240-56462/12-A | | | 10:45 | |
| ZZZZZZ | | | 10:47 | |
| ZZZZZZ | | | 10:48 | |
| ZZZZZZ | | | 10:50 | |
| ZZZZZZ | | | 10:51 | |
| ZZZZZZ | | | 10:53 | |
| ZZZZZZ | | | 10:54 | |
| ZZZZZZ | | | 10:56 | |
| ZZZZZZ | | | 10:57 | |
| ZZZZZZ | | | 10:59 | |
| ZZZZZZ | | | 11:00 | |
| CCV 240-56462/11-A | | | 11:02 | |
| CCB 240-56462/12-A | | | 11:03 | |
| ZZZZZZ | | | 11:05 | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

Instrument ID: H1 Method: 7470A

Start Date: 08/31/2012 09:00 End Date: 08/31/2012 11:40

| Lab Sample ID | D / F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Hg | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:06 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:08 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:09 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:11 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:13 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:14 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:15 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:17 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:19 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-56462/11-A | | | 11:21 | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-56462/12-A | | | 11:22 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:24 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:25 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:27 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:28 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:29 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:31 | | | | | | | | | | | | | | | | | | | | | |
| CCV 240-56462/11-A | | | 11:33 | | | | | | | | | | | | | | | | | | | | | |
| CCB 240-56462/12-A | | | 11:34 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:35 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:37 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:38 | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:40 | | | | | | | | | | | | | | | | | | | | | |

Prep Types
D = Dissolved
T = Total/NA

15-IN

ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

METALS

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

ICP-MS Instrument ID: I8 Start Date: 09/06/2012 End Date: 09/06/2012

| Lab Sample ID | Time | Internal Standards %RI For: | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Element Li | Q | Element Sc | Q | Element Sc | Q | Element Ge | Q | Element In | Q |
| STD2 240-57039/2 IC | 09:58 | 96 | | 94 | | 95 | | 93 | | 95 | |
| STD3 240-57039/3 IC | 10:05 | 88 | | 89 | | 92 | | 87 | | 91 | |
| STD4 240-57039/4 IC | 10:11 | 93 | | 88 | | 88 | | 91 | | 93 | |
| ICV 240-57039/5 | 10:16 | 95 | | 91 | | 91 | | 90 | | 93 | |
| ICB 240-57039/6 | 10:23 | 99 | | 87 | | 87 | | 89 | | 91 | |
| CRI 240-57039/8 | 10:32 | 100 | | 93 | | 92 | | 91 | | 95 | |
| ICSA 240-57039/9 | 10:38 | 92 | | 85 | | 89 | | 90 | | 92 | |
| ICSAB 240-57039/10 | 10:43 | 87 | | 85 | | 90 | | 92 | | 93 | |
| CCV 240-57039/11 | 10:52 | 104 | | 94 | | 93 | | 92 | | 94 | |
| CCB 240-57039/12 | 10:59 | 107 | | 93 | | 91 | | 93 | | 95 | |
| MB 240-56218/1-A | 11:04 | 106 | | 93 | | 91 | | 93 | | 95 | |
| LCS 240-56218/2-A | 11:09 | 100 | | 91 | | 92 | | 92 | | 95 | |
| 240-14408-H-2-A SD | 11:22 | 111 | | 98 | | 94 | | 97 | | 98 | |
| 240-14408-H-2-B DU | 11:27 | 110 | | 97 | | 95 | | 97 | | 97 | |
| 240-14408-H-2-C MS | 11:32 | 108 | | 94 | | 93 | | 95 | | 96 | |
| CCV 240-57039/23 | 12:02 | 100 | | 94 | | 94 | | 92 | | 95 | |
| CCB 240-57039/24 | 12:09 | 111 | | 96 | | 93 | | 93 | | 96 | |
| 240-14454-2 | 12:26 | 109 | | 99 | | 99 | | 102 | | 101 | |
| 240-14454-2 | 12:31 | 116 | | 104 | | 102 | | 104 | | 102 | |
| 240-14454-3 | 12:36 | 113 | | 102 | | 99 | | 101 | | 100 | |
| 240-14454-3 | 12:42 | 115 | | 103 | | 99 | | 101 | | 100 | |
| 240-14454-4 | 12:47 | 111 | | 99 | | 95 | | 96 | | 96 | |
| 240-14454-4 | 12:53 | 108 | | 96 | | 93 | | 94 | | 95 | |
| CCV 240-57039/35 | 13:09 | 101 | | 97 | | 97 | | 94 | | 97 | |
| CCB 240-57039/36 | 13:16 | 111 | | 96 | | 94 | | 94 | | 96 | |
| CRI 240-57039/43 | 13:54 | 103 | | 89 | | 86 | | 87 | | 90 | |

FORM XV - IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Canton Job No.: 240-14454-1

SDG No.:

ICP-MS Instrument ID: I8 Start Date: 09/06/2012 End Date: 09/06/2012

| Lab Sample ID | Time | Internal Standards %RI For: | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Element Tb | Q | Element Ho | Q | Element Bi | Q | Element | Q | Element | Q |
| STD2 240-57039/2 IC | 09:58 | | | | | 90 | | | | | |
| STD3 240-57039/3 IC | 10:05 | | | | | 83 | | | | | |
| STD4 240-57039/4 IC | 10:11 | | | | | 97 | | | | | |
| ICV 240-57039/5 | 10:16 | | | | | 91 | | | | | |
| ICB 240-57039/6 | 10:23 | | | | | 96 | | | | | |
| CRI 240-57039/8 | 10:32 | | | | | 99 | | | | | |
| ICSA 240-57039/9 | 10:38 | | | | | 89 | | | | | |
| ICSAB 240-57039/10 | 10:43 | | | | | 91 | | | | | |
| CCV 240-57039/11 | 10:52 | | | | | 93 | | | | | |
| CCB 240-57039/12 | 10:59 | | | | | 100 | | | | | |
| MB 240-56218/1-A | 11:04 | | | | | 101 | | | | | |
| LCS 240-56218/2-A | 11:09 | | | | | 100 | | | | | |
| 240-14408-H-2-A SD | 11:22 | | | | | 102 | | | | | |
| 240-14408-H-2-B DU | 11:27 | | | | | 100 | | | | | |
| 240-14408-H-2-C MS | 11:32 | | | | | 99 | | | | | |
| CCV 240-57039/23 | 12:02 | | | | | 94 | | | | | |
| CCB 240-57039/24 | 12:09 | | | | | 102 | | | | | |
| 240-14454-2 | 12:26 | | | | | 105 | | | | | |
| 240-14454-2 | 12:31 | | | | | 106 | | | | | |
| 240-14454-3 | 12:36 | | | | | 103 | | | | | |
| 240-14454-3 | 12:42 | | | | | 103 | | | | | |
| 240-14454-4 | 12:47 | | | | | 99 | | | | | |
| 240-14454-4 | 12:53 | | | | | 98 | | | | | |
| CCV 240-57039/35 | 13:09 | | | | | 96 | | | | | |
| CCB 240-57039/36 | 13:16 | | | | | 102 | | | | | |
| CRI 240-57039/43 | 13:54 | | | | | 97 | | | | | |

# METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton  Job No.: 240-14454-1

SDG No.:

Batch Number: 56218  Batch Start Date: 08/30/12 07:45  Batch Analyst: McGall, Lisa

Batch Method: 3005A  Batch End Date: 08/30/12 16:00

| Lab Sample ID | Client Sample ID | Method Chain | Basis | InitialAmount | FinalAmount | MTHCL 00038 | MTHNO3 00032 | MTICPMS2 00009 | MTICPMSA 00009 |
|---|---|---|---|---|---|---|---|---|---|
| MB 240-56218/1 | | 3005A, 6020A | | 50 mL | 50 mL | 2.5 mL | 1 mL | | |
| LCS 240-56218/2 | | 3005A, 6020A | | 50 mL | 50 mL | 2.5 mL | 1 mL | 0.5 mL | 0.5 mL |
| 240-14408-H-2 DU | | 3005A, 6020A | R | 50 mL | 50 mL | 2.5 mL | 1 mL | | |
| 240-14408-H-2 MS | | 3005A, 6020A | R | 50 mL | 50 mL | 2.5 mL | 1 mL | 0.5 mL | 0.5 mL |
| 240-14454-G-2 | MT-MW07S-082212 | 3005A, 6020A | R | 50 mL | 50 mL | 2.5 mL | 1 mL | | |
| 240-14454-H-2 | MT-MW07S-082212 | 3005A, 6020A | D | 50 mL | 50 mL | 2.5 mL | 1 mL | | |
| 240-14454-G-3 | MT-MW08S-082212 | 3005A, 6020A | R | 50 mL | 50 mL | 2.5 mL | 1 mL | | |
| 240-14454-H-3 | MT-MW08S-082212 | 3005A, 6020A | D | 50 mL | 50 mL | 2.5 mL | 1 mL | | |
| 240-14454-G-4 | MT-MW10S-082212 | 3005A, 6020A | R | 50 mL | 50 mL | 2.5 mL | 1 mL | | |
| 240-14454-H-4 | MT-MW10S-082212 | 3005A, 6020A | D | 50 mL | 50 mL | 2.5 mL | 1 mL | | |

| Lab Sample ID | Client Sample ID | Method Chain | Basis | MTICPMSB 00009 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| MB 240-56218/1 | | 3005A, 6020A | | | | | | | |
| LCS 240-56218/2 | | 3005A, 6020A | | 0.5 mL | | | | | |
| 240-14408-H-2 DU | | 3005A, 6020A | R | | | | | | |
| 240-14408-H-2 MS | | 3005A, 6020A | R | 0.5 mL | | | | | |
| 240-14454-G-2 | MT-MW07S-082212 | 3005A, 6020A | R | | | | | | |
| 240-14454-H-2 | MT-MW07S-082212 | 3005A, 6020A | D | | | | | | |
| 240-14454-G-3 | MT-MW08S-082212 | 3005A, 6020A | R | | | | | | |
| 240-14454-H-3 | MT-MW08S-082212 | 3005A, 6020A | D | | | | | | |
| 240-14454-G-4 | MT-MW10S-082212 | 3005A, 6020A | R | | | | | | |
| 240-14454-H-4 | MT-MW10S-082212 | 3005A, 6020A | D | | | | | | |

| Batch Notes | |
|---|---|
| Filter Paper Lot Number | 6637617 |
| Pipette ID | 383363 |
| Digestion Tube/Cup Lot # | 1207159 |

# METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton  Job No.: 240-14454-1

SDG No.:

Batch Number: 56218  Batch Start Date: 08/30/12 07:45  Batch Analyst: McGall, Lisa

Batch Method: 3005A  Batch End Date: 08/30/12 16:00

| Basis | Basis Description |
|---|---|
| R | Total Recoverable |
| D | Dissolved |

# METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton  Job No.: 240-14454-1

SDG No.:

Batch Number: 56220  Batch Start Date: 08/30/12 14:00  Batch Analyst: McGall, Lisa

Batch Method: 7470A  Batch End Date: 08/30/12 16:00

| Lab Sample ID | Client Sample ID | Method Chain | Basis | InitialAmount | FinalAmount | MTH2S04 00009 | MTHGICVW 00373 | MTHNO3 00032 | MTK2S2O8Liq 00003 |
|---|---|---|---|---|---|---|---|---|---|
| MB 240-56220/1 | | 7470A, 7470A | | 100 mL | 100 mL | 5 mL | | 2.5 mL | 8 mL |
| LCS 240-56220/2 | | 7470A, 7470A | | 100 mL | 100 mL | 5 mL | 1 mL | 2.5 mL | 8 mL |
| 240-14454-G-2 | MT-MW07S-082212 | 7470A, 7470A | T | 100 mL | 100 mL | 5 mL | | 2.5 mL | 8 mL |
| 240-14454-H-2 | MT-MW07S-082212 | 7470A, 7470A | D | 100 mL | 100 mL | 5 mL | | 2.5 mL | 8 mL |
| 240-14454-G-3 | MT-MW08S-082212 | 7470A, 7470A | T | 100 mL | 100 mL | 5 mL | | 2.5 mL | 8 mL |
| 240-14454-H-3 | MT-MW08S-082212 | 7470A, 7470A | D | 100 mL | 100 mL | 5 mL | | 2.5 mL | 8 mL |
| 240-14454-G-4 | MT-MW10S-082212 | 7470A, 7470A | T | 100 mL | 100 mL | 5 mL | | 2.5 mL | 8 mL |
| 240-14454-G-4 DU | MT-MW10S-082212 | 7470A, 7470A | T | 100 mL | 100 mL | 5 mL | | 2.5 mL | 8 mL |
| 240-14454-G-4 MS | MT-MW10S-082212 | 7470A, 7470A | T | 100 mL | 100 mL | 5 mL | 0.2 mL | 2.5 mL | 8 mL |
| 240-14454-H-4 | MT-MW10S-082212 | 7470A, 7470A | D | 100 mL | 100 mL | 5 mL | | 2.5 mL | 8 mL |

| Lab Sample ID | Client Sample ID | Method Chain | Basis | MTKMN04W 00030 |
|---|---|---|---|---|
| MB 240-56220/1 | | 7470A, 7470A | | 15 mL |
| LCS 240-56220/2 | | 7470A, 7470A | | 15 mL |
| 240-14454-G-2 | MT-MW07S-082212 | 7470A, 7470A | T | 15 mL |
| 240-14454-H-2 | MT-MW07S-082212 | 7470A, 7470A | D | 15 mL |
| 240-14454-G-3 | MT-MW08S-082212 | 7470A, 7470A | T | 15 mL |
| 240-14454-H-3 | MT-MW08S-082212 | 7470A, 7470A | D | 15 mL |
| 240-14454-G-4 | MT-MW10S-082212 | 7470A, 7470A | T | 15 mL |
| 240-14454-G-4 DU | MT-MW10S-082212 | 7470A, 7470A | T | 15 mL |
| 240-14454-G-4 MS | MT-MW10S-082212 | 7470A, 7470A | T | 15 mL |
| 240-14454-H-4 | MT-MW10S-082212 | 7470A, 7470A | D | 15 mL |

| Batch Notes | |
|---|---|
| Pipette ID | 432085 383364 |

| Basis | Basis Description |
|---|---|
| T | Total/NA |
| D | Dissolved |

# METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton  Job No.: 240-14454-1

SDG No.:

Batch Number: 56462  Batch Start Date: 08/30/12 12:00  Batch Analyst: Davies, Brian

Batch Method: 7470A  Batch End Date: 08/30/12 14:00

| Lab Sample ID | Client Sample ID | Method Chain | Basis | InitialAmount | FinalAmount | MTH2S04 00009 | MTHGCALW 00241 | MTHGICVW 00374 | MTHNO3 00032 |
|---|---|---|---|---|---|---|---|---|---|
| ICV 240-56462/7 | | 7470A, 7470A | | 100 mL | 100 mL | 5 mL | | 0.5 mL | 2.5 mL |
| ICB 240-56462/8 | | 7470A, 7470A | | 100 mL | 100 mL | 5 mL | | | 2.5 mL |
| CRA 240-56462/9 | | 7470A, 7470A | | 100 mL | 100 mL | 5 mL | 0.2 mL | | 2.5 mL |
| CCVL 240-56462/10 | | 7470A, 7470A | | 100 mL | 100 mL | 5 mL | 5 mL | | 2.5 mL |
| CCV 240-56462/11 | | 7470A, 7470A | | 100 mL | 100 mL | 5 mL | 5 mL | | 2.5 mL |
| CCB 240-56462/12 | | 7470A, 7470A | | 100 mL | 100 mL | 5 mL | | | 2.5 mL |

| Lab Sample ID | Client Sample ID | Method Chain | Basis | MTK2S2O8Liq 00003 | MTKMN04W 00030 | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ICV 240-56462/7 | | 7470A, 7470A | | 8 mL | 15 mL | | | | |
| ICB 240-56462/8 | | 7470A, 7470A | | 8 mL | 15 mL | | | | |
| CRA 240-56462/9 | | 7470A, 7470A | | 8 mL | 15 mL | | | | |
| CCVL 240-56462/10 | | 7470A, 7470A | | 8 mL | 15 mL | | | | |
| CCV 240-56462/11 | | 7470A, 7470A | | 8 mL | 15 mL | | | | |
| CCB 240-56462/12 | | 7470A, 7470A | | 8 mL | 15 mL | | | | |

| Batch Notes | |
|---|---|
| | |

| Basis | Basis Description |
|---|---|
| | |

MT-MW075-052012



240-14454-g-2-a, 9/6/2012 12:26:03 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

| Run | Time | 6Li | 9Be | 10B |
|---|---|---|---|---|
| | | ppb | ppb | ppb |
| x | | 109.422% | 2.983 | 30.770 |
| %RSD | | 2.587 | 1.230 | 1.262 |
| Run | Time | 23Na | 25Mg | 27Al |
| | | ppb | ppb | ppb |
| x | | 5661.000 | 862.100 | 514.400 |
| %RSD | | 1.242 | 1.098 | 0.742 |
| Run | Time | 35Cl | 39K | 43Ca |
| | | ppb | ppb | ppb |
| x | | r0.000 | r1043.000 | 3652.000 |
| %RSD | | r0.000 | r1.134 | 1.349 |
| Run | Time | 45Sc | 45Sc | 47Ti |
| | | ppb | ppb | ppb |
| x | | r99.425% | 99.142% | 11.210 |
| %RSD | | r0.956 | 1.813 | 10.410 |
| Run | Time | 51V | 52Cr | 53Cl O |
| | | ppb | ppb | ppb |
| x | | 2.433 | 5.186 | 12.760 |
| %RSD | | 11.910 | 1.363 | 17.190 |
| Run | Time | 55Mn | 56Fe | 59Co |
| | | ppb | ppb | ppb |
| x | | 79.430 | 1908.000 | 19.950 |
| %RSD | | 0.727 | 0.920 | 1.209 |
| Run | Time | 60Ni | 65Cu | 66Zn |
| | | ppb | ppb | ppb |
| x | | 30.690 | 3.387 | 53.430 |
| %RSD | | 1.341 | 1.898 | 1.046 |
| Run | Time | 72Ge | 75As | 77Ar Cl |
| | | ppb | ppb | ppb |
| x | | 102.192% | 0.121 | 0.244 |
| %RSD | | 0.780 | 32.430 | 13.700 |
| Run | Time | 78Se | 88Sr | 95Mo |
| | | ppb | ppb | ppb |
| x | | 0.109 | 38.480 | 0.222 |
| %RSD | | 77.980 | 0.634 | 11.810 |
| Run | Time | 105Pd | 107Ag | 108Mo O |
| | | ppb | ppb | ppb |
| x | | 0.000 | 0.006 | -0.492 |
| %RSD | | 0.000 | 50.690 | 115.700 |
| Run | Time | 111Cd | 115In | 118Sn |
| | | ppb | ppb | ppb |
| x | | 0.028 | 101.047% | 0.207 |
| %RSD | | 45.700 | 1.061 | 4.864 |
| Run | Time | 121Sb | 137Ba | 159Tb |
| | | ppb | ppb | ppb |
| x | | 0.169 | 20.020 | 0.000 |
| %RSD | | 9.139 | 1.115 | 0.000 |
| Run | Time | 165Ho | 182W | 205Tl |
| | | ppb | ppb | ppb |
| x | | 0.000 | 0.200 | 0.163 |
| %RSD | | 0.000 | 5.657 | 1.082 |
| Run | Time | 208Pb | 209Bi | |
| | | ppb | ppb | |
| x | | 0.554 | 104.923% | |
| %RSD | | 0.162 | 0.724 | |

Ba = 20 ug/L

**Tetra Tech** **INTERNAL CORRESPONDENCE**

| | | | |
|---|---|---|---|
| **TO:** | **A. APANAVAGE** | **DATE:** | **MAY 21, 2012** |
| **FROM:** | **TERRI L. SOLOMON** | **COPIES:** | **DV FILE** |

**SUBJECT:** **INORGANIC DATA VALIDATION – HEXAVALENT CHROMIUM**
**MARTIN STATE AIRPORT – GROUNDWATER**
**SAMPLE DELIVERY GROUP (SDG) – R1202581**

**SAMPLES:** 2/Aqueous/

MT-MW04S-042412 MT-MW06S-042412

Overview

The sample set for Martin State Airport – Groundwater, SDG R1202581, consists of two (2) aqueous environmental samples. No field duplicate pairs were included in this SDG.

All samples were analyzed for hexavalent chromium. The samples were collected by Tetra Tech on April 24, 2012 and analyzed by Columbia Analytical Services, Inc. Hexavalent chromium analyses were conducted using EPA method 218.6.

The findings offered in this report are based upon a general review of all available data. The data review was based on data completeness, holding times, continuing calibration recoveries, laboratory method / preparation blank results, laboratory control sample recoveries, detection limits and analyte quantitation.

Areas of concern with respect to data quality are listed below.

Major Problems –None.

Minor Problems

- The 24 hour hold time for hexavalent chromium was exceeded by 1 day for samples MT-MW04S-042412 and MT-MW06S-042412 due to high baseline bias. The nondetected results reported for the affected samples were qualified as estimated, "UJ".

Notes

All samples were filtered in the laboratory and preserved by the laboratory to a pH of 9.3-9.7.

Nondetected results are reported to the method reporting limit.

Positive results for hexavalent chromium were present in the continuing calibrations blanks (0.026 ug/L, 0.020 ug/L) affecting the samples. However, no validation actions were warranted as the sample results were nondetects.

Executive Summary

**Laboratory Performance:** The 24 hour hold time was exceeded by 1 day for samples MT-MW04S-042412 and MT-MW06S-042412.

**Other Factors Affecting Data Quality:** None.

The data for these analyses were reviewed with reference to Region III modifications to the "National Functional Guidelines for Inorganic Data Validation", April 1993.

The text of this report has been formulated to address only those problem areas affecting data quality.

Tetra Tech
Terri L. Solomon
Environmental Scientist

Tetra Tech
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

# APPENDIX A
# QUALIFIED ANALYTICAL RESULTS

**Qualifier Codes:**

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = ICP PDS Recovery Noncompliance; MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = RPD between columns/detectors >40% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity
Z1 = Tentatively Identified Compound considered presumptively present
Z2 = Tentatively Identified Compound column bleed

| PROJ_NO: 04021 | NSAMPLE | MT-MW04S-042412 | | | MT-MW06S-042412 | | |
|---|---|---|---|---|---|---|---|
| SDG: R1202581 | LAB_ID | R1202581-001 | | | R1202581-002 | | |
| FRACTION: MISC | SAMP_DATE | 4/24/2012 | | | 4/24/2012 | | |
| MEDIA: WATER | QC_TYPE | NM | | | NM | | |
| | UNITS | UG/L | | | UG/L | | |
| | PCT_SOLIDS | 0.0 | | | 0.0 | | |
| | DUP_OF | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| HEXAVALENT CHROMIUM | | 0.02 | UJ | H | 0.02 | UJ | H |

# APPENDIX B
# RESULTS AS REPORTED BY THE LABORATORY

| | | | |
|---|---|---|---|
| **Client:** | Tetra Tech NUS, Inc. | **Service Request:** | R1202581 |
| **Project:** | MSA Groundwater/112IC04021- 02 | **Date Collected:** | 4/24/12 1215 |
| **Sample Matrix:** | Water | **Date Received:** | 4/25/12 |
| **Sample Name:** | MT-MW04S-042412 | | |
| **Lab Code:** | R1202581-001 | **Basis:** | NA |

## General Chemistry Parameters

| Analyte Name | Method | Result | Q | Units | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Note |
|---|---|---|---|---|---|---|---|---|---|---|
| Chromium, Hexavalent, Dissolved | 218.6 | 0.020 | U | µg/L | 0.020 | 0.004 | 1 | NA | 4/26/12 14:14 | |

| | | | |
|---|---|---|---|
| **Client:** | Tetra Tech NUS, Inc. | **Service Request:** | R1202581 |
| **Project:** | MSA Groundwater/112IC04021- 02 | **Date Collected:** | 4/24/12 1457 |
| **Sample Matrix:** | Water | **Date Received:** | 4/25/12 |
| **Sample Name:** | MT-MW06S-042412 | | |
| **Lab Code:** | R1202581-002 | **Basis:** | NA |

## General Chemistry Parameters

| Analyte Name | Method | Result | Q | Units | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Note |
|---|---|---|---|---|---|---|---|---|---|---|
| Chromium, Hexavalent, Dissolved | 218.6 | 0.020 | U | µg/L | 0.020 | 0.004 | 1 | NA | 4/26/12 14:23 | |

# APPENDIX C
# SUPPORT DOCUMENTATION

**COLUMBIA ANALYTICAL SERVICES, INC.**
**Now part of the ALS Group**

| | | | |
|---|---|---|---|
| **Client:** | Tetra Tech NUS, Inc. | **Service Request No.:** | R1202581 |
| **Project:** | MSA Groundwater | **Project Number:** | 112IC04021 - 02 |
| **Sample Matrix:** | Water | **Date Received:** | 4/25/12 |

## CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier IV deliverables. When appropriate to the method, method blank and LCS results have been reported with each analytical test.

### Sample Receipt

Water samples were collected on 4/24/12 and received at CAS in good condition at a cooler temperature of 1.4 °C as noted on the cooler receipt and preservation check form. The samples were stored in a refrigerator at 1 - 6 °C upon receipt at the laboratory. See the CAS CLP Batching sheets for a cross-reference between Client ID and CAS Job # and analyses requested.

### Hexavalent Chromium Analysis – 218.6

Two samples were analyzed for CR+6 by EPA method 218.6, low level. Values detected between the MDL and PQL have been flagged with a "J" as estimated.

Note: samples MT-MW04S-042412 and MT-MW-06S-042412 were done outside the 24 hour holding time due to a high baseline bias caused by instrument issues. The samples were analyzed as soon as possible after the problem was corrected.

All the initial and continuing calibration criteria were met.

The Blank Spike (LCS) recovery was within QC limits.

The Laboratory Blank associated with these samples was free of contamination.

No other analytical or QC problems were encountered.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the details conditioned above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

# Columbia Analytical Services™ CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

1565 Jefferson Rd., Bldg. 300, Suite 360, Rochester, NY 14623 | 585.288.5380 | 800.695.7222 | 585.288.8475 (fax) PAGE 1 OF 1

| | |
|---|---|
| Project Name: MSA Ground Water Sampling | Project Number: 112IC04021-02 |
| Project Manager: Tony Apanavage | Report CC: |
| Company/Address: Tetra Tech INC. 20251 Century Blvd STE 200 Germantown MD 20874 | |
| Phone #: 301 528-3021 | E-mail: |
| Sampler's Signature: | Sampler's Printed Name: Matt Payne |

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE: 0

| CLIENT SAMPLE ID | FOR OFFICE USE ONLY LAB ID | SAMPLING DATE | SAMPLING TIME | MATRIX | NUMBER OF CONTAINERS | GC/MS VOA's ☐8260 ☐624 ☐CLP | GC/MS SVOA's ☐8270 ☐625 | GC VOA's ☐8021 ☐601/602 | PESTICIDES ☐8081 ☐608 | PCB's ☐8082 ☐608 | METALS, TOTAL (List in comments below) | METALS, DISSOLVED (List in comments below) | Hex Chrom | | | | | | | REMARKS/ ALTERNATE DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MT-MW04S-042412 | | 4.24.12 | 1215 | Water | 1 | | | | | | | | X | | | | | | | |
| MT-MW06S-042412 | | ↓ | 1457 | ↓ | 1 | | | | | | | | X | | | | | | | |

Preservative Key
0. NONE
1. HCL
2. $HNO_3$
3. $H_2SO_4$
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
**Metals** 24 TAT

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED:

TURNAROUND REQUIREMENTS
X RUSH (SURCHARGES APPLY)
X 1 day ___ 2 day ___ 3 day
___ 4 day ___ 5 day
___ Standard

REQUESTED REPORT DATE

REPORT REQUIREMENTS
___ I. Results Only
___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
___ IV. Data Validation Report with Raw Data

Edata ___ Yes ___ No

INVOICE INFORMATION
PO #:
BILL TO:

R1202581 5
Tetra Tech NUS,Inc.
MSA Groundwater

| RELINQUISHED BY | RECEIVED BY | RELINQUISHED BY | RECEIVED BY | RELINQUISHED BY | |
|---|---|---|---|---|---|
| Signature: | Signature: | Signature: | Signature: | Signature: | Signature: |
| Printed Name: Matt Payne | Printed Name: Amy Henschke | Printed Name: | Printed Name: | Printed Name: | Printed Name: |
| Firm: TT INC. | Firm: AS | Firm: | Firm: | Firm: | Firm: |
| Date/Time: 4.24.12 / 1800 | Date/Time: 4/25/12 0955 | Date/Time: | Date/Time: | Date/Time: | Date/Time: |

Distribution: White - Lab Copy; Yellow - Return To Originator

SCOC Rev. 7/2011

# HOLDTIME

**SDG** R1202557

| SORT | UNITS | NSAMPLE | LAB_ID | QC_TYPE | SAMP_DATE | EXTR_DATE | ANAL_DATE | SMP_EXTR | EXTR_ANL | SMP_ANL |
|---|---|---|---|---|---|---|---|---|---|---|
| CR6 | UG/L | MT-MW06S-042412 | R1202581-002 | NM | 4/24/2012 | 4/26/2012 | 4/26/2012 | 2 | 0 | 2 |
| CR6 | UG/L | MT-MW05S-042512 | R1202604-003 | NM | 4/25/2012 | 4/26/2012 | 4/26/2012 | 1 | 0 | 1 |
| CR6 | UG/L | MT-MW04S-042412 | R1202581-001 | NM | 4/24/2012 | 4/26/2012 | 4/26/2012 | 2 | 0 | 2 |
| CR6 | UG/L | MT-MW03S-042512 | R1202604-002 | NM | 4/25/2012 | 4/26/2012 | 4/26/2012 | 1 | 0 | 1 |
| CR6 | UG/L | MT-MW01S-042512 | R1202604-001 | NM | 4/25/2012 | 4/26/2012 | 4/26/2012 | 1 | 0 | 1 |
| CR6 | UG/L | MSA-MW35S-042312 | R1202557-006 | NM | 4/23/2012 | 4/24/2012 | 4/24/2012 | 1 | 0 | 1 |
| CR6 | UG/L | MSA-MW20S-042312 | R1202557-001 | NM | 4/23/2012 | 4/24/2012 | 4/24/2012 | 1 | 0 | 1 |
| CR6 | UG/L | MSA-MW20I-042312 | R1202557-002 | NM | 4/23/2012 | 4/24/2012 | 4/24/2012 | 1 | 0 | 1 |
| CR6 | UG/L | MSA-MW20D-042312 | R1202557-003 | NM | 4/23/2012 | 4/24/2012 | 4/24/2012 | 1 | 0 | 1 |
| CR6 | UG/L | MSA-MW17S-042312 | R1202557-004 | NM | 4/23/2012 | 4/24/2012 | 4/24/2012 | 1 | 0 | 1 |
| CR6 | UG/L | MSA-MW17I-042312 | R1202557-005 | NM | 4/23/2012 | 4/24/2012 | 4/24/2012 | 1 | 0 | 1 |
| CR6 | UG/L | GSP-MW3-042612 | R1202652-003 | NM | 4/26/2012 | 4/27/2012 | 4/27/2012 | 1 | 0 | 1 |
| CR6 | UG/L | GSP-MW2-042612 | R1202652-001 | NM | 4/26/2012 | 4/27/2012 | 4/27/2012 | 1 | 0 | 1 |
| CR6 | UG/L | GSP-MW1-042612 | R1202652-002 | NM | 4/26/2012 | 4/27/2012 | 4/27/2012 | 1 | 0 | 1 |

| Date/Time Received | Sample ID | Analysis | Matrix | Date/Time Sampled | Sample Filtered | Filter Lot ID | Chlorine Residual (mg/L) 218.7 only | pH at Receipt | pH Adjustment | Analyst/ Date/ Time pH Adjustment | Solution Used For PH Adjust | Solution Lot ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4/20/12 0755 | R1202486-004 | 7199 218.6 RL ~~218.6 LL~~ 218.7 | ~~Water~~ Drinking Water | 4/19/12 1240 | ~~Yes~~ No Field | Millex HV R1SA546004 | — | 5.94 | 9.36 | AMW 4/20/12 0932 | Buffer | WC1032781 |
| | | | | | | | | | | | 10%H2SO4 | |
| | | | | | | | | | | | 10%NH4OH | |
| | | | | | | | | | | | NH4OH(conc) | |
| ↓ | R1202486-005 | 7199 218.6 RL ~~218.6 LL~~ 218.7 | ~~Water~~ Drinking Water | 4/19/12 1245 | ~~Yes~~ No Field | | — | 5.22 | 9.39 | AMW 4/20/12 0934 | Buffer | WC1032781 |
| | | | | | | | | | | | 10%H2SO4 | |
| | | | | | | | | | | | 10%NH4OH | |
| | | | | | | | | | | | NH4OH(conc) | |
| — | Filter Blank for 4/20/12 | 7199 218.6 RL ~~218.6 LL~~ 218.7 | ~~Water~~ Drinking Water | — | ~~Yes~~ No Field | ↓ | — | 5.69 | 9.53 | AMW 4/20/12 0935 | Buffer | WC1032781 |
| | | | | | | | | | | | 10%H2SO4 | |
| | | | | | | | | | | | 10%NH4OH | |
| | | | | | | | | | | | NH4OH(conc) | |
| 4/24/12 0950 | R1202557-001 | 7199 218.6 RL ~~218.6 LL~~ 218.7 | ~~Water~~ Drinking Water | 4/23/12 1530 | ~~Yes~~ No Field | Millex HV R1SA546004 | — | 5.84 | 9.36 * | AMW 4/24/12 1255 | Buffer | WC1032781 |
| | | | | | | | | | | | 10%H2SO4 | |
| | | | | | | | | | | | 10%NH4OH | |
| | | | | | | | | | | | NH4OH(conc) | |
| ↓ | R1202557-002 | 7199 218.6 RL ~~218.6 LL~~ 218.7 | ~~Water~~ Drinking Water | 4/23/12 1535 | ~~Yes~~ No Field | ↓ | — | 6.20 | 9.31 * | AMW 4/24/12 1257 | Buffer | WC1032781 |
| | | | | | | | | | | | 10%H2SO4 | |
| | | | | | | | | | | | 10%NH4OH | |
| | | | | | | | | | | | NH4OH(conc) | |
| | R1202557-003 | 7199 218.6 RL ~~218.6 LL~~ 218.7 | ~~Water~~ Drinking Water | 4/23/12 1540 | ~~Yes~~ No Field | | — | 5.22 | 9.43 | AMW 4/12/24 1300 | Buffer | WC1032781 |
| | | | | | | | | | | | 10%H2SO4 | |
| | | | | | | | | | | | 10%NH4OH | |
| | | | | | | | | | | | NH4OH(conc) | |
| | R1202557-004 | 7199 218.6 RL ~~218.6 LL~~ 218.7 | ~~Water~~ Drinking Water | 4/23/12 1510 | ~~Yes~~ No Field | | — | 7.16 | 9.32 | AMW 4/24/12 1301 | Buffer | WC1032781 |
| | | | | | | | | | | | 10%H2SO4 | |
| | | | | | | | | | | | 10%NH4OH | |
| | | | | | | | | | | | NH4OH(conc) | |
| ↓ | R1202557-005 | 7199 218.6 RL ~~218.6 LL~~ 218.7 | ~~Water~~ Drinking Water | 4/23/12 1515 | ~~Yes~~ No Field | ↓ | — | 5.35 | 9.46 | AMW 4/24/12 1303 | Buffer | WC1032781 |
| | | | | | | | | | | | 10%H2SO4 | |
| | | | | | | | | | | | 10%NH4OH | |
| | | | | | | | | | | | NH4OH(conc) | |

| | Drinking water 218.7 | Drinking water 218.6 | Non-Pot Water 218.6 | Water 7199 |
|---|---|---|---|---|
| Filter | No | Required | Required | Optional |
| pH | >8.0 | 9.0-9.5 | 9.3-9.7 | unpreserved - adjust to 9.0-9.5 |
| Res Chlorine | <0.1 mg/L | NA | NA | NA |
| Holding Time | 14 days | 5 days | 28 days | 24 hours |

*Green PPT formed

| Date/Time Received | Sample ID | Analysis | Matrix | Date/Time Sampled | Sample Filtered | Filter Lot ID | Chlorine Residual (mg/L) 218.7 only | pH at Receipt | pH Adjustment | Analyst/ Date/ Time pH Adjustment | Solution Used For PH Adjust | Solution Lot ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4/24/12 | R1202557-006 | 7199<br>218.6 RL<br>~~218.6 LL~~<br>218.7 | (Water)<br>Drinking Water | 4/23/12<br>1555 | (Yes)<br>No<br>Field | Millex HV<br>R1SA5462ZK | — | 4.66 | 9.37 | CMW<br>4/24/12<br>1304 | Buffer<br>10%H2SO4<br>10%NH4OH<br>NH4OH(conc) | WC1032783 |
| ↓ | Filter Blank for 4/24/12 | 7199<br>218.6 RL<br>~~218.6 LL~~<br>218.7 | (Water)<br>Drinking Water | — | (Yes)<br>No<br>Field | ↓ | — | 5.73 | 9.59 | CMW<br>4/24/12<br>1305 | Buffer<br>10%H2SO4<br>10%NH4OH<br>NH4OH(conc) | WC1032781 |
| 4/25/12<br>0955 | R1202581-001 | 7199<br>218.6 RL<br>~~218.6 LL~~<br>218.7 | (Water)<br>Drinking Water | 4/24/12<br>1215 | (Yes)<br>No<br>Field | Millex HV<br>R1SA5462ZK | — | 5.16 | 9.39 | CMW<br>4/25/12<br>1054 | Buffer<br>10%H2SO4<br>10%NH4OH<br>NH4OH(conc) | WC1032781 |
| ↓ | R1202581-002 | 7199<br>218.6 RL<br>~~218.6 LL~~<br>218.7 | (Water)<br>Drinking Water | 4/24/12<br>1457 | (Yes)<br>No<br>Field | ↓ | — | 4.73 | 9.52 | CMW<br>4/25/12<br>1055 | Buffer<br>10%H2SO4<br>10%NH4OH<br>NH4OH(conc) | WC1032781 |
| ↓ | Filter Blank for 4/25/12 | 7199<br>218.6 RL<br>~~218.6 LL~~<br>218.7 | (Water)<br>Drinking Water | — | (Yes)<br>No<br>Field | ↓ | — | 5.69 | 9.39 | CMW<br>4/25/12<br>1057 | Buffer<br>10%H2SO4<br>10%NH4OH<br>NH4OH(conc) | WC1032781 |
| 4/25/12<br>1010 | R1202582<br>-003 | (7199)<br>218.6 RL<br>218.6 LL<br>218.7 | (Water)<br>Drinking Water | 4/24/12<br>1530 | Yes<br>(No)<br>Field | — | — | 8.22 | 9.45 | CMW<br>4/25/12<br>1217 | Buffer<br>10%H2SO4<br>10%NH4OH<br>NH4OH(conc) | WC1032781 |
| 4/26/12<br>1000 | R1202604<br>-001 | 7199<br>218.6 RL<br>~~218.6 LL~~<br>218.7 | (Water)<br>Drinking Water | 4/25/12<br>1335 | (Yes)<br>No<br>Field | Millex HV<br>R1SA5462ZK | — | 6.56 | 9.34 | CMW<br>4/26/12<br>1129 | Buffer<br>10%H2SO4<br>10%NH4OH<br>NH4OH(conc) | WC1032781 |
| ↓ | R1202604<br>-002 | 7199<br>218.6 RL<br>(218.6 LL)<br>218.7 | (Water)<br>Drinking Water | 4/25/12<br>1450 | (Yes)<br>No<br>Field | ↓ | — | 7.09 | 9.42 | CMW<br>4/26/12<br>1131 | Buffer<br>10%H2SO4<br>10%NH4OH<br>NH4OH(conc) | WC1032781 |

| | Drinking water 218.7 | Drinking water 218.6 | Non-Pot Water 218.6 | Water 7199 |
|---|---|---|---|---|
| Filter | No | Required | Required | Optional |
| pH | >8.0 | 9.0-9.5 | 9.3-9.7 | unpreserved - adjust to 9.0-9.5 |
| Res Chlorine | <0.1 mg/L | NA | NA | NA |
| Holding Time | 14 days | 5 days | 28 days | 24 hours |

| Date/Time Received | Sample ID | Analysis | Matrix | Date/Time Sampled | Sample Filtered | Filter Lot ID | Chlorine Residual (mg/L) 218.7 only | pH at Receipt | pH Adjustment | Analyst/ Date/ Time pH Adjustment | Solution Used For PH Adjust | Solution Lot ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4/26/12 1000 | R1202604 -003 | 7199 218.6 RL ~~218.6 LL~~ 218.7 | (Water) Drinking Water | 4/26/12 1530 | (Yes) No Field | R1SA54bxx Millex HV | — | 4.51 | 9.36 | CMW 4/26/12 1133 | Buffer | WC1032781 |
| | | | | | | | | | | | 10%H2SO4 | |
| | | | | | | | | | | | 10%NH4OH | |
| | | | | | | | | | | | NH4OH(conc) | |
| — | Filter Blank for 4/26/12 | 7199 218.6 RL ~~218.6 LL~~ 218.7 | (Water) Drinking Water | 4/25/12 — | (Yes) No Field | ↓ | — | 8.40 | 9.39 | CMW 4/26/12 1135 | Buffer | WC1032781 |
| | | | | | | | | | | | 10%H2SO4 | |
| | | | | | | | | | | | 10%NH4OH | |
| | | | | | | | | | | | NH4OH(conc) | |
| 4/26/12 1000 | R1202582 -010 | (7199) 218.6 RL 218.6 LL 218.7 | (Water) Drinking Water | 4/25/12 1600 | Yes (No) Field | — | — | 5.51 | 9.46 | CMW 4/26/12 1455 | Buffer | WC1032781 |
| | | | | | | | | | | | 10%H2SO4 | |
| | | | | | | | | | | | 10%NH4OH | |
| | | | | | | | | | | | NH4OH(conc) | |
| ↓ | R1202582 -012 | (7199) 218.6 RL 218.6 LL 218.7 | (Water) Drinking Water | 4/25/12 1605 | Yes (No) Field | — | — | 5.63 | 9.39 | CMW 4/26/12 1458 | Buffer | WC1032781 |
| | | | | | | | | | | | 10%H2SO4 | |
| | | | | | | | | | | | 10%NH4OH | |
| | | | | | | | | | | | NH4OH(conc) | |
| 4/27/12 0925 | Filter Blank For 4/27/12 | 7199 ~~218.6 RL~~ (218.6 LL) 218.7 | (Water) Drinking Water | — | (Yes) No Field | Millex HV R1SA54bxx | — | 7.65 | 9.33 | CMW 4/27/12 1004 | Buffer | WC1120226 |
| | | | | | | | | | | | 10%H2SO4 | |
| | | | | | | | | | | | 10%NH4OH | |
| | | | | | | | | | | | NH4OH(conc) | |
| ↓ | MW1 R1202652-002 | 7199 218.6 RL (218.6 LL) 218.7 | (Water) Drinking Water | 4/26/12 1325 | (Yes) No Field | ↓ | — | 6.60 | 9.38 | CMW 4/27/12 1005 | Buffer | WC1120226 |
| | | | | | | | | | | | 10%H2SO4 | |
| | | | | | | | | | | | 10%NH4OH | |
| | | | | | | | | | | | NH4OH(conc) | |
| ↓ | MW2 R1202652 -001 | 7199 ~~218.6 RL~~ ~~218.6 LL~~ 218.7 | (Water) Drinking Water | 4/26/12 1320 | (Yes) No Field | ↓ | — | 5.31 | 9.63 | CMW 4/27/12 1007 | Buffer | WC1120226 |
| | | | | | | | | | | | 10%H2SO4 | |
| | | | | | | | | | | | 10%NH4OH | |
| | | | | | | | | | | | NH4OH(conc) | |
| ↓ | MW3 R1202652 -003 | 7199 218.6 RL (218.6 LL) 218.7 | (Water) Drinking Water | 4/26/12 1440 | (Yes) No Field | ↓ | — | 6.01 | 9.67 | CMW 4/27/12 1008 | Buffer | WC1120226 |
| | | | | | | | | | | | 10%H2SO4 | |
| | | | | | | | | | | | 10%NH4OH | |
| | | | | | | | | | | | NH4OH(conc) | |

| | Drinking water 218.7 | Drinking water 218.6 | Non-Pot Water 218.6 | Water 7199 |
|---|---|---|---|---|
| Filter | No | Required | Required | Optional |
| pH | >8.0 | 9.0-9.5 | 9.3-9.7 | unpreserved - adjust to 9.0-9.5 |
| Res Chlorine | <0.1 mg/L | NA | NA | NA |
| Holding Time | 14 days | 5 days | 28 days | 24 hours |



00021

**Instrument Name:** R-IC-05 **Analyst:** CWOODS **Analysis Lot:** 289198 **Method/Testcode:** 218.6/Cr6 D

| Lab Code | Target Analytes | QC | Parent Sample | Matrix | Raw Result | Sample Amt. | Final Result | Dil | MDL | PQL | % Rec | % RSD | Date Analyzed | QC? | Tier |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RQ1204265-05 | Chromium, Hexavalent, Dissolved | CCV | | Water | 0.50 µg/L | 10 mL | 0.499 µg/L | 1 | | | | | 4/26/12 12:08:00 | N | IV |
| RQ1204265-08 | Chromium, Hexavalent, Dissolved | CCB | | Water | 0.00 µg/L | 10 mL | 0.020 µg/L U | 1 | 0.004 | 0.020 | | | 4/26/12 12:17:00 | N | IV |
| RQ1204265-09 | Chromium, Hexavalent, Dissolved | MB | | Water | 0.00 µg/L | 10 mL | 0.020 µg/L U | 1 | 0.004 | 0.020 | | | 4/26/12 12:17:00 | N | IV |
| RQ1204265-10 | Chromium, Hexavalent, Dissolved | LCS | | Water | 0.20 µg/L | 10 mL | 0.197 µg/L | 1 | 0.004 | 0.020 | 99 | | 4/26/12 12:25:00 | N | IV |
| R1202604-001 | Chromium, Hexavalent, Dissolved | N/A | | Water | 0.00 µg/L | 10 mL | 0.020 µg/L U | 1 | 0.004 | 0.020 | | | 4/26/12 12:42:00 | N | IV |
| R1202604-002 | Chromium, Hexavalent, Dissolved | N/A | | Water | 0.00 µg/L | 10 mL | 0.020 µg/L U | 1 | 0.004 | 0.020 | | | 4/26/12 12:50:00 | N | IV |
| R1202604-003 | Chromium, Hexavalent, Dissolved | N/A | | Water | 0.00 µg/L | 10 mL | 0.020 µg/L U | 1 | 0.004 | 0.020 | | | 4/26/12 12:59:00 | N | IV |
| RQ1204265-01 | Chromium, Hexavalent, Dissolved | DUP | R1202604-003 | Water | 0.00 µg/L | 10 mL | 0.020 µg/L U | 1 | 0.004 | 0.020 | | NC | 4/26/12 13:07:00 | N | IV |
| RQ1204265-02 | Chromium, Hexavalent, Dissolved | MS | R1202604-003 | Water | 0.20 µg/L | 10 mL | 0.201 µg/L | 1 | 0.004 | 0.020 | 100 | | 4/26/12 13:16:00 | N | IV |
| R1202557-003 | Chromium, Hexavalent, Dissolved | N/A | | Water | 0.00 µg/L | 10 mL | 0.020 µg/L U | 1 | 0.004 | 0.020 | | | 4/26/12 13:32:00 | N | IV |
| R1202557-005 | Chromium, Hexavalent, Dissolved | N/A | | Water | 0.00 µg/L | 10 mL | 0.020 µg/L U | 1 | 0.004 | 0.020 | | | 4/26/12 13:41:00 | N | IV |
| RQ1204265-04 | Chromium, Hexavalent, Dissolved | CCV | | Water | 0.52 µg/L | 10 mL | 0.515 µg/L | 1 | | | | | 4/26/12 13:49:00 | N | IV |
| RQ1204265-06 | Chromium, Hexavalent, Dissolved | CCB | | Water | 0.03 µg/L | 10 mL | 0.026 µg/L | 1 | 0.004 | 0.020 | | | 4/26/12 13:57:00 | N | IV |
| R1202581-001 | Chromium, Hexavalent, Dissolved | N/A | | Water | 0.00 µg/L | 10 mL | 0.020 µg/L U | 1 | 0.004 | 0.020 | | | 4/26/12 14:14:00 | N | IV |
| R1202581-002 | Chromium, Hexavalent, Dissolved | N/A | | Water | 0.00 µg/L | 10 mL | 0.020 µg/L U | 1 | 0.004 | 0.020 | | | 4/26/12 14:23:00 | N | IV |
| RQ1204265-03 | Chromium, Hexavalent, Dissolved | CCV | | Water | 0.52 µg/L | 10 mL | 0.520 µg/L | 1 | | | | | 4/26/12 14:52:00 | N | IV |
| RQ1204265-07 | Chromium, Hexavalent, Dissolved | CCB | | Water | 0.02 µg/L | 10 mL | 0.020 µg/L J | 1 | 0.004 | 0.020 | | | 4/26/12 15:01:00 | N | IV |

00017

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

| | | | |
|---|---|---|---|
| **Client:** | Tetra Tech NUS, Inc. | **Service Request:** | R1202581 |
| **Project:** | MSA Groundwater/112IC04021- 02 | **Date Collected:** | NA |
| **Sample Matrix:** | Water | **Date Received:** | NA |
| **Sample Name:** | Method Blank | | |
| **Lab Code:** | R1202581-MB | **Basis:** | NA |

## General Chemistry Parameters

| Analyte Name | Method | Result | Q | Units | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Note |
|---|---|---|---|---|---|---|---|---|---|---|
| Chromium, Hexavalent, Dissolved | 218.6 | 0.020 | U | µg/L | 0.020 | 0.004 | 1 | NA | 4/26/12 12:17 | |

**Client:** Tetra Tech NUS, Inc.
**Project:** MSA Groundwater/112IC04021- 02
**Sample Matrix:** Water

**Service Request:** R1202581
**Date Analyzed:** 4/26/12

## Lab Control Sample Summary
## General Chemistry Parameters

**Units:** µg/L
**Basis:** NA

| Analyte Name | Method | Lab Control Sample R1202581-LCS Result | Spike Amount | % Rec | % Rec Limits |
|---|---|---|---|---|---|
| Chromium, Hexavalent, Dissolved | 218.6 | 0.197 | 0.200 | 99 | 90 - 110 |

**Results flagged with an asterisk (*) indicate values outside control criteria.**
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

**Client:** Tetra Tech NUS, Inc. **Service Request:** R1202581
**Project:** MSA Groundwater/112IC04021- 02

## Continuing Calibration Verification (CCV) Summary
## Chromium, Hexavalent, Dissolved

**Analytical Method:** 218.6 **Units:** µg/L

| | Analysis Lot | Lab Code | Date Analyzed | True Value | Measured Value | Percent Recovery | Acceptance Limits |
|---|---|---|---|---|---|---|---|
| CCV1 | 289198 | RQ1204265-05 | 4/26/12 12:08 | 0.500 | 0.499 | 100 | 95 - 105 |
| CCV2 | 289198 | RQ1204265-04 | 4/26/12 13:49 | 0.500 | 0.515 | 103 | 95 - 105 |
| CCV3 | 289198 | RQ1204265-03 | 4/26/12 14:52 | 0.500 | 0.520 | 104 | 95 - 105 |

**Client:** Tetra Tech NUS, Inc. **Service Request:** R1202581
**Project:** MSA Groundwater/112IC04021- 02

## Continuing Calibration Blank (CCB) Summary
## Chromium, Hexavalent, Dissolved

**Analytical Method:** 218.6 **Units:** µg/L

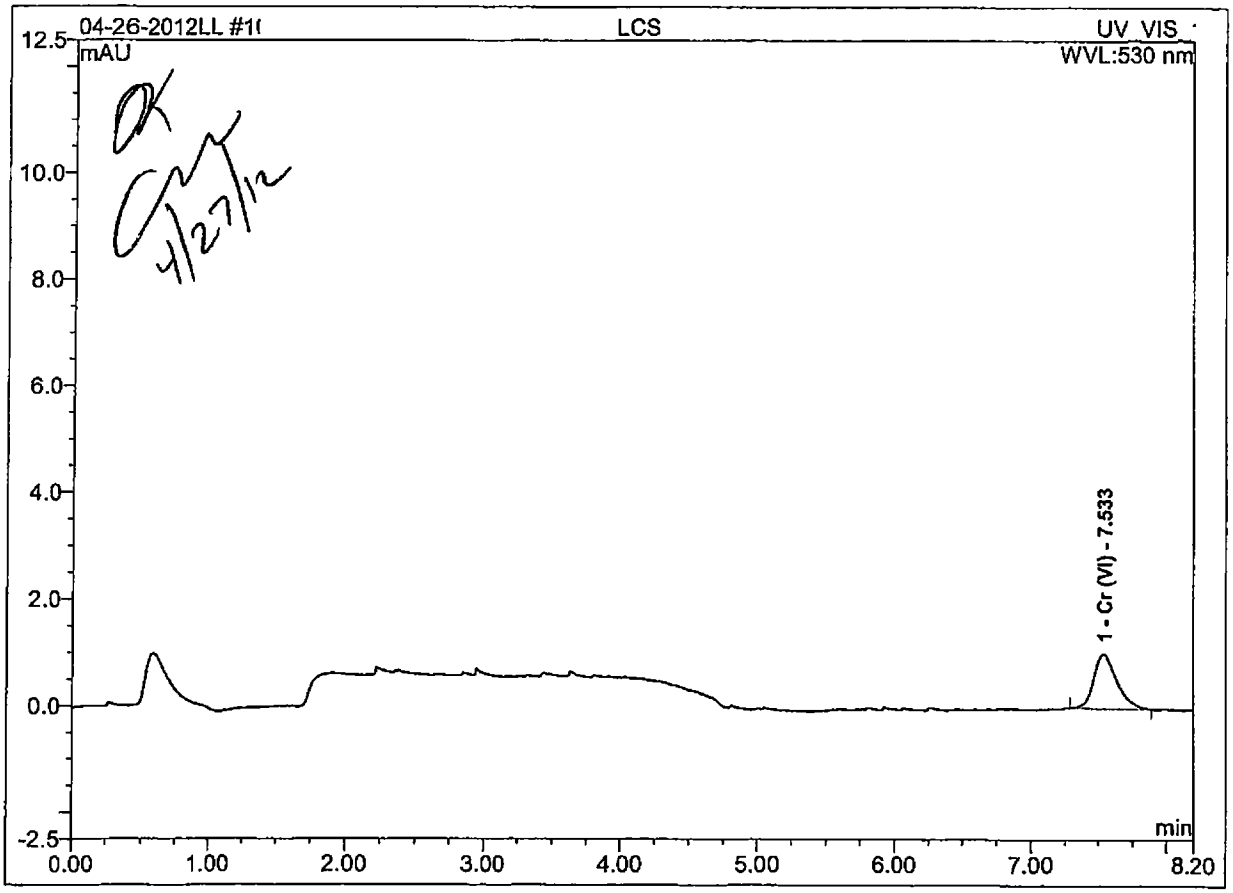
| | Analysis Lot | Lab Code | Date Analyzed | MDL | MRL | Result | Q |
|---|---|---|---|---|---|---|---|
| CCB1 | 289198 | RQ1204265-08 | 4/26/12 12:17 | 0.004 | 0.020 | 0.020 | U |
| CCB2 | 289198 | RQ1204265-06 | 4/26/12 13:57 | 0.004 | 0.020 | **0.026** | |
| CCB3 | 289198 | RQ1204265-07 | 4/26/12 15:01 | 0.004 | 0.020 | **0.020** | J |

LCS rep result 0.197 ug/L

## 10 LCS

**218.6 LL**

| | | | |
|---|---|---|---|
| *Sample Name:* | **LCS** | *Injection Volume:* | **2000.0** |
| *Vial Number:* | **34** | *Channel:* | **UV_VIS_1** |
| *Sample Type:* | **unknown** | *Dilution Factor:* | **1** |
| *Control Program:* | **Fast Hexavalent Chromium LL** | *Sample Weight:* | **1.0000** |
| *Quantif. Method:* | **5-042612CLL** | *Sample Amount:* | **1.0000** |
| *Recording Time:* | **4/26/2012 12:25** | | |




4/27/12

| No. | Ret.Time min | Peak Name | Height mAU | Area mAU*min | Rel.Area % | Amount ppb | Type |
|---|---|---|---|---|---|---|---|
| 1 | 7.533 | Cr (VI) | 1.023 | 0.201 | 100.00 | 0.19736 | BMB |
| Total: | | | 1.023 | 0.201 | 100.00 | 0.197 | |



Chromeleon (c) Dionex 1996-2006
Version 6.80 SR11 Build 3161 (184582)

**Tetra Tech** **INTERNAL CORRESPONDENCE**

| | | | |
|---|---|---|---|
| **TO:** | **A. APANAVAGE** | **DATE:** | **MAY 21, 2012** |
| **FROM:** | **TERRI L. SOLOMON** | **COPIES:** | **DV FILE** |

**SUBJECT:** **INORGANIC DATA VALIDATION – HEXAVALENT CHROMIUM**
**MARTIN STATE AIRPORT – GROUNDWATER**
**SAMPLE DELIVERY GROUP (SDG) – R1202604**

**SAMPLES:** 3/Aqueous/

MT-MW01S-042512 MT-MW03S-042512
MT-MW05S-042512

Overview

The sample set for Martin State Airport – Groundwater, SDG R1202604, consists of three (3) aqueous environmental samples. No field duplicate pairs were included in this SDG.

All samples were analyzed for hexavalent chromium. The samples were collected by Tetra Tech on April 25, 2012 and analyzed by Columbia Analytical Services, Inc. Hexavalent chromium analyses were conducted using EPA method 218.6.

The findings offered in this report are based upon a general review of all available data. The data review was based on data completeness, holding times, continuing calibration recoveries, laboratory method / preparation blank results, laboratory control sample recoveries, detection limits and analyte quantitation.

Areas of concern with respect to data quality are listed below.

Major Problems –None.

Minor Problems- None.

Notes

All samples were filtered in the laboratory and preserved by the laboratory to a pH of 9.3-9.7.

Nondetected results are reported to the method reporting limit.

Positive results for hexavalent chromium were present in the continuing calibrations blanks (0.026 ug/L, 0.020 ug/L) affecting the samples. However, no validation actions were warranted as the sample results were nondetects.

Executive Summary

**Laboratory Performance:** None.

**Other Factors Affecting Data Quality:** None.

The data for these analyses were reviewed with reference to Region III modifications to the "National Functional Guidelines for Inorganic Data Validation", April 1993.

The text of this report has been formulated to address only those problem areas affecting data quality.

Tetra Tech
Terri L. Solomon
Environmental Scientist

Tetra Tech
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

# APPENDIX A
# QUALIFIED ANALYTICAL RESULTS

**Qualifier Codes:**

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = ICP PDS Recovery Noncompliance; MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = RPD between columns/detectors >40% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity
Z1 = Tentatively Identified Compound considered presumptively present
Z2 = Tentatively Identified Compound column bleed

| PROJ_NO: 04021 | NSAMPLE | MT-MW01S-042512 | | | MT-MW03S-042512 | | | MT-MW05S-042512 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SDG: R1202604 | LAB_ID | R1202604-001 | | | R1202604-002 | | | R1202604-003 | | |
| FRACTION: MISC | SAMP_DATE | 4/25/2012 | | | 4/25/2012 | | | 4/25/2012 | | |
| MEDIA: WATER | QC_TYPE | NM | | | NM | | | NM | | |
| | UNITS | UG/L | | | UG/L | | | UG/L | | |
| | PCT_SOLIDS | 0.0 | | | 0.0 | | | 0.0 | | |
| | DUP_OF | | | | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| HEXAVALENT CHROMIUM | | 0.02 | U | | 0.02 | U | | 0.02 | U | |

# APPENDIX B
# RESULTS AS REPORTED BY THE LABORATORY

| | | | |
|---|---|---|---|
| **Client:** | Tetra Tech NUS, Inc. | **Service Request:** | R1202604 |
| **Project:** | MSA Groundwater/112IC04021- 02 | **Date Collected:** | 4/25/12 1335 |
| **Sample Matrix:** | Water | **Date Received:** | 4/26/12 |
| **Sample Name:** | MT-MW01S-042512 | | |
| **Lab Code:** | R1202604-001 | **Basis:** | NA |

## General Chemistry Parameters

| Analyte Name | Method | Result | Q | Units | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Note |
|---|---|---|---|---|---|---|---|---|---|---|
| Chromium, Hexavalent, Dissolved | 218.6 | 0.020 | U | µg/L | 0.020 | 0.004 | 1 | NA | 4/26/12 12:42 | |

**Client:** Tetra Tech NUS, Inc.
**Project:** MSA Groundwater/112IC04021- 02
**Sample Matrix:** Water

**Service Request:** R1202604
**Date Collected:** 4/25/12 1450
**Date Received:** 4/26/12

**Sample Name:** MT-MW03S-042512
**Lab Code:** R1202604-002

**Basis:** NA

## General Chemistry Parameters

| Analyte Name | Method | Result | Q | Units | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Note |
|---|---|---|---|---|---|---|---|---|---|---|
| Chromium, Hexavalent, Dissolved | 218.6 | 0.020 | U | µg/L | 0.020 | 0.004 | 1 | NA | 4/26/12 12:50 | |

**Client:** Tetra Tech NUS, Inc.
**Project:** MSA Groundwater/112IC04021- 02
**Sample Matrix:** Water

**Service Request:** R1202604
**Date Collected:** 4/25/12 1530
**Date Received:** 4/26/12

**Sample Name:** MT-MW05S-042512
**Lab Code:** R1202604-003

**Basis:** NA

## General Chemistry Parameters

| Analyte Name | Method | Result | Q | Units | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Note |
|---|---|---|---|---|---|---|---|---|---|---|
| Chromium, Hexavalent, Dissolved | 218.6 | 0.020 | U | µg/L | 0.020 | 0.004 | 1 | NA | 4/26/12 12:59 | |

# APPENDIX C
# SUPPORT DOCUMENTATION

**COLUMBIA ANALYTICAL SERVICES, INC.**
**Now part of the ALS Group**

| | | | |
|---|---|---|---|
| **Client:** | Tetra Tech NUS, Inc. | **Service Request No.:** | R1202604 |
| **Project:** | MSA Groundwater | **Project Number:** | 112IC04021 - 02 |
| **Sample Matrix:** | Water | **Date Received:** | 4/26/12 |

## CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier IV deliverables. When appropriate to the method, method blank and LCS results have been reported with each analytical test.

### Sample Receipt

Water samples were collected on 4/25/12 and received at CAS in good condition at a cooler temperature of 1.6 °C as noted on the cooler receipt and preservation check form. The samples were stored in a refrigerator at 1 - 6 °C upon receipt at the laboratory. See the CAS CLP Batching sheets for a cross-reference between Client ID and CAS Job # and analyses requested.

### Hexavalent Chromium Analysis – 218.6

Three water samples were analyzed for CR+6 by EPA method 218.6, low level. Values detected between the MDL and PQL have been flagged with a "J" as estimated.

All samples were analyzed within 24 hours of sampling.

All the initial and continuing calibration criteria were met.

The Blank Spike (LCS) recovery was within QC limits.

The Laboratory Blank associated with these samples was free of contamination.

No other analytical or QC problems were encountered.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the details conditioned above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

# Columbia Analytical Services — CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

1565 Jefferson Rd., Bldg. 300, Suite 360, Rochester, NY 14623 | 585.288.5380 | 800.695.7222 | 585.288.8475 (fax) PAGE 1 OF 1

| | |
|---|---|
| Project Name: MSA Ground Water Sampling | Project Number: 112IC04021-02 |
| Project Manager: Tony Apanavage | Report CC: |
| Company/Address: Tetra Tech INC. 20251 Century Blvd STE 200 Germantown MD 20874 | |
| Phone #: 301 528-3021 | E-mail: |
| Sampler's Signature: | Sampler's Printed Name: Walt Payon |

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE: D

| CLIENT SAMPLE ID | FOR OFFICE USE ONLY LAB ID | SAMPLING DATE | SAMPLING TIME | MATRIX | NUMBER OF CONTAINERS | GC/MS VOA's ☐ 8260 ☐ 624 ☐ CLP | GC/MS SVOA's ☐ 8270 ☐ 625 | GC VOA's ☐ 8021 ☐ 601/602 | PESTICIDES ☐ 8081 ☐ 608 | PCB's ☐ 8082 ☐ 608 | METALS, TOTAL (List in comments below) | METALS, DISSOLVED (List in comments below) | Hex Chrom | | | | | | | REMARKS/ ALTERNATE DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MT-MW01s-042512 | | 4-25-12 | 1335 | Water | 1 | | | | | | | | X | | | | | | | |
| MT-MW03s-042512 | | ↓ | 1450 | ↓ | 1 | | | | | | | | X | | | | | | | |
| MT-MW05s-042512 | | ↓ | 1530 | ↓ | 1 | | | | | | | | X | | | | | | | |

Preservative Key
0. NONE
1. HCL
2. $HNO_3$
3. $H_2SO_4$
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
**Metals** 24 TAT

See QAPP ☐

TURNAROUND REQUIREMENTS
X RUSH (SURCHARGES APPLY)
X 1 day ___ 2 day ___ 3 day
___ 4 day ___ 5 day
___ Standard

REQUESTED REPORT DATE

REPORT REQUIREMENTS
___ I. Results Only
___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
___ IV. Data Validation Report with Raw Data

Edata ___ Yes ___ N

INVOICE INFORMATION
PO #:
BILL TO:

R1202604 5
Tetra Tech NUS,Inc.
MSA Groundwater

STATE WHERE SAMPLES WERE COLLECTED:

| RELINQUISHED BY | RECEIVED BY | RELINQUISHED BY | RECEIVED BY | RELINQUISHED BY | |
|---|---|---|---|---|---|
| Signature: | Signature: | Signature | Signature | Signature | Signature |
| Printed Name: Walt Payon | Printed Name: Gregory O. Esmerian | Printed Name | Printed Name | Printed Name | Printed Name |
| Firm: TT INC. | Firm: ALS | Firm | Firm | Firm | Firm |
| Date/Time: 4-25-12 / 1900 | Date/Time: 4-26-12 10:00 | Date/Time | Date/Time | Date/Time | Date/Time |

Distribution: White - Lab Copy; Yellow - Return To Originator

SCOC Rev. 7/2011

# HOLD TIME

**SDG** R1202557

| SORT | UNITS | NSAMPLE | LAB_ID | QC_TYPE | SAMP_DATE | EXTR_DATE | ANAL_DATE | SMP_EXTR | EXTR_ANL | SMP_ANL |
|---|---|---|---|---|---|---|---|---|---|---|
| CR6 | UG/L | MT-MW06S-042412 | R1202581-002 | NM | 4/24/2012 | 4/26/2012 | 4/26/2012 | 2 | 0 | 2 |
| CR6 | UG/L | MT-MW05S-042512 | R1202604-003 | NM | 4/25/2012 | 4/26/2012 | 4/26/2012 | 1 | 0 | 1 |
| CR6 | UG/L | MT-MW04S-042412 | R1202581-001 | NM | 4/24/2012 | 4/26/2012 | 4/26/2012 | 2 | 0 | 2 |
| CR6 | UG/L | MT-MW03S-042512 | R1202604-002 | NM | 4/25/2012 | 4/26/2012 | 4/26/2012 | 1 | 0 | 1 |
| CR6 | UG/L | MT-MW01S-042512 | R1202604-001 | NM | 4/25/2012 | 4/26/2012 | 4/26/2012 | 1 | 0 | 1 |
| CR6 | UG/L | MSA-MW35S-042312 | R1202557-006 | NM | 4/23/2012 | 4/24/2012 | 4/24/2012 | 1 | 0 | 1 |
| CR6 | UG/L | MSA-MW20S-042312 | R1202557-001 | NM | 4/23/2012 | 4/24/2012 | 4/24/2012 | 1 | 0 | 1 |
| CR6 | UG/L | MSA-MW20I-042312 | R1202557-002 | NM | 4/23/2012 | 4/24/2012 | 4/24/2012 | 1 | 0 | 1 |
| CR6 | UG/L | MSA-MW20D-042312 | R1202557-003 | NM | 4/23/2012 | 4/24/2012 | 4/24/2012 | 1 | 0 | 1 |
| CR6 | UG/L | MSA-MW17S-042312 | R1202557-004 | NM | 4/23/2012 | 4/24/2012 | 4/24/2012 | 1 | 0 | 1 |
| CR6 | UG/L | MSA-MW17I-042312 | R1202557-005 | NM | 4/23/2012 | 4/24/2012 | 4/24/2012 | 1 | 0 | 1 |
| CR6 | UG/L | GSP-MW3-042612 | R1202652-003 | NM | 4/26/2012 | 4/27/2012 | 4/27/2012 | 1 | 0 | 1 |
| CR6 | UG/L | GSP-MW2-042612 | R1202652-001 | NM | 4/26/2012 | 4/27/2012 | 4/27/2012 | 1 | 0 | 1 |
| CR6 | UG/L | GSP-MW1-042612 | R1202652-002 | NM | 4/26/2012 | 4/27/2012 | 4/27/2012 | 1 | 0 | 1 |

| Date/Time Received | Sample ID | Analysis | Matrix | Date/Time Sampled | Sample Filtered | Filter Lot ID | Chlorine Residual (mg/L) 218.7 only | pH at Receipt | pH Adjustment | Analyst/ Date/ Time pH Adjustment | Solution Used For PH Adjust | Solution Lot ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4/20/12 0755 | R1202486-004 | 7199 218.6 RL ~~218.6 LL~~ 218.7 | ~~Water~~ Drinking Water | 4/19/12 1240 | Yes No Field | Millex HV R1SA546204 | — | 5.94 | 9.36 | CMW 4/20/12 0932 | Buffer | WC1032781 |
| | | | | | | | | | | | 10%H2SO4 | |
| | | | | | | | | | | | 10%NH4OH | |
| | | | | | | | | | | | NH4OH(conc) | |
| | R1202486-005 | 7199 218.6 RL ~~218.6 LL~~ 218.7 | ~~Water~~ Drinking Water | 4/19/12 1245 | Yes No Field | | — | 5.22 | 9.39 | CMW 4/20/12 0934 | Buffer | WC1032781 |
| | | | | | | | | | | | 10%H2SO4 | |
| | | | | | | | | | | | 10%NH4OH | |
| | | | | | | | | | | | NH4OH(conc) | |
| — | Filter Blank for 4/20/12 | 7199 218.6 RL ~~218.6 LL~~ 218.7 | ~~Water~~ Drinking Water | — | Yes No Field | | — | 5.69 | 9.53 | CMW 4/20/12 0935 | Buffer | WC1032781 |
| | | | | | | | | | | | 10%H2SO4 | |
| | | | | | | | | | | | 10%NH4OH | |
| | | | | | | | | | | | NH4OH(conc) | |
| 4/24/12 0950 | R1202557-001 | 7199 218.6 RL ~~218.6 LL~~ 218.7 | ~~Water~~ Drinking Water | 4/23/12 1530 | Yes No Field | Millex HV R1SA546204 | — | 5.84 | 9.36 * | CMW 4/24/12 1255 | Buffer | WC1032781 |
| | | | | | | | | | | | 10%H2SO4 | |
| | | | | | | | | | | | 10%NH4OH | |
| | | | | | | | | | | | NH4OH(conc) | |
| | R1202557-002 | 7199 218.6 RL ~~218.6 LL~~ 218.7 | ~~Water~~ Drinking Water | 4/23/12 1535 | Yes No Field | | — | 6.20 | 9.31 * | CMW 4/24/12 1257 | Buffer | WC1032781 |
| | | | | | | | | | | | 10%H2SO4 | |
| | | | | | | | | | | | 10%NH4OH | |
| | | | | | | | | | | | NH4OH(conc) | |
| | R1202557-003 | 7199 218.6 RL ~~218.6 LL~~ 218.7 | ~~Water~~ Drinking Water | 4/23/12 1540 | Yes No Field | | — | 5.22 | 9.43 | CMW 4/12/24 1300 | Buffer | WC1032781 |
| | | | | | | | | | | | 10%H2SO4 | |
| | | | | | | | | | | | 10%NH4OH | |
| | | | | | | | | | | | NH4OH(conc) | |
| | R1202557-004 | 7199 218.6 RL ~~218.6 LL~~ 218.7 | ~~Water~~ Drinking Water | 4/23/12 1510 | Yes No Field | | — | 7.16 | 9.32 | CMW 4/24/12 1301 | Buffer | WC1032781 |
| | | | | | | | | | | | 10%H2SO4 | |
| | | | | | | | | | | | 10%NH4OH | |
| | | | | | | | | | | | NH4OH(conc) | |
| | R1202557-005 | 7199 218.6 RL ~~218.6 LL~~ 218.7 | ~~Water~~ Drinking Water | 4/23/12 1515 | Yes No Field | | — | 5.35 | 9.46 | CMW 4/24/12 1303 | Buffer | WC1032781 |
| | | | | | | | | | | | 10%H2SO4 | |
| | | | | | | | | | | | 10%NH4OH | |
| | | | | | | | | | | | NH4OH(conc) | |

| | Drinking water 218.7 | Drinking water 218.6 | Non-Pot Water 218.6 | Water 7199 |
|---|---|---|---|---|
| Filter | No | Required | Required | Optional |
| pH | >8.0 | 9.0-9.5 | 9.3-9.7 | unpreserved - adjust to 9.0-9.5 |
| Res Chlorine | <0.1 mg/L | NA | NA | NA |
| Holding Time | 14 days | 5 days | 28 days | 24 hours |

*Green PPT formed

0025

| Date/Time Received | Sample ID | Analysis | Matrix | Date/Time Sampled | Sample Filtered | Filter Lot ID | Chlorine Residual (mg/L) 218.7 only | pH at Receipt | pH Adjustment | Analyst/ Date/ Time pH Adjustment | Solution Used For PH Adjust | Solution Lot ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4/24/12 | R1202557-006 | 7199<br>218.6 RL<br>~~218.6 LL~~<br>218.7 | (Water)<br>Drinking Water | 4/23/12<br>1555 | (Yes)<br>No<br>Field | Millex HV<br>R1SA5462QK | — | 4.66 | 9.37 | CMW<br>4/24/12<br>1304 | Buffer<br>10%H2SO4<br>10%NH4OH<br>NH4OH(conc) | WC1032783 |
| ↓ | Filter Blank for 4/24/12 | 7199<br>218.6 RL<br>~~218.6 LL~~<br>218.7 | (Water)<br>Drinking Water | — | (Yes)<br>No<br>Field | ↓ | — | 5.73 | 9.59 | CMW<br>4/24/12<br>1305 | Buffer<br>10%H2SO4<br>10%NH4OH<br>NH4OH(conc) | WC1032781 |
| 4/25/12<br>0955 | R1202581-001 | 7199<br>218.6 RL<br>~~218.6 LL~~<br>218.7 | (Water)<br>Drinking Water | 4/24/12<br>1215 | (Yes)<br>No<br>Field | Millex HV<br>R1SA5462QK | — | 5.16 | 9.39 | CMW<br>4/25/12<br>1054 | Buffer<br>10%H2SO4<br>10%NH4OH<br>NH4OH(conc) | WC1032781 |
| ↓ | R1202581-002 | 7199<br>218.6 RL<br>~~218.6 LL~~<br>218.7 | (Water)<br>Drinking Water | 4/24/12<br>1457 | (Yes)<br>No<br>Field | ↓ | — | 4.73 | 9.52 | CMW<br>4/25/12<br>1055 | Buffer<br>10%H2SO4<br>10%NH4OH<br>NH4OH(conc) | WC1032781 |
| ↓ | Filter Blank for 4/25/12 | 7199<br>218.6 RL<br>~~218.6 LL~~<br>218.7 | (Water)<br>Drinking Water | — | (Yes)<br>No<br>Field | ↓ | — | 5.69 | 9.39 | CMW<br>4/25/12<br>1057 | Buffer<br>10%H2SO4<br>10%NH4OH<br>NH4OH(conc) | WC1032781 |
| 4/25/12<br>1010 | R1202582<br>-003 | (7199)<br>218.6 RL<br>218.6 LL<br>218.7 | (Water)<br>Drinking Water | 4/24/12<br>1530 | Yes<br>(No)<br>Field | — | — | 8.22 | 9.45 | CMW<br>4/25/12<br>1217 | Buffer<br>10%H2SO4<br>10%NH4OH<br>NH4OH(conc) | WC1032781 |
| 4/26/12<br>1000 | R1202604<br>-001 | 7199<br>218.6 RL<br>~~218.6 LL~~<br>218.7 | (Water)<br>Drinking Water | 4/25/12<br>1335 | (Yes)<br>No<br>Field | Millex HV<br>R1SA5462QK | — | 6.56 | 9.34 | CMW<br>4/26/12<br>1129 | Buffer<br>10%H2SO4<br>10%NH4OH<br>NH4OH(conc) | WC1032782 |
| ↓ | R1202604<br>-002 | 7199<br>218.6 RL<br>(218.6 LL)<br>218.7 | (Water)<br>Drinking Water | 4/25/12<br>1450 | (Yes)<br>No<br>Field | ↓ | — | 7.09 | 9.42 | CMW<br>4/26/12<br>1131 | Buffer<br>10%H2SO4<br>10%NH4OH<br>NH4OH(conc) | WC1032787 |

| | Drinking water 218.7 | Drinking water 218.6 | Non-Pot Water 218.6 | Water 7199 |
|---|---|---|---|---|
| Filter | No | Required | Required | Optional |
| pH | >8.0 | 9.0-9.5 | 9.3-9.7 | unpreserved - adjust to 9.0-9.5 |
| Res Chlorine | <0.1 mg/L | NA | NA | NA |
| Holding Time | 14 days | 5 days | 28 days | 24 hours |

| Date/Time Received | Sample ID | Analysis | Matrix | Date/Time Sampled | Sample Filtered | Filter Lot ID | Chlorine Residual (mg/L) 218.7 only | pH at Receipt | pH Adjustment | Analyst/ Date/ Time pH Adjustment | Solution Used For PH Adjust | Solution Lot ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4/26/12 1000 | R1202604 -003 | 7199 218.6 RL 218.6 LL 218.7 | Water Drinking Water | 4/25/12 1530 | Yes No Field | R1SA546201 Millex HV | — | 4.51 | 9.36 | CMW 4/26/12 1133 | Buffer<br>10%H2SO4<br>10%NH4OH<br>NH4OH(conc) | WC1032781 |
| — | Filter Blank for 4/26/12 | 7199 218.6 RL 218.6 LL 218.7 | Water Drinking Water | 4/25/12 — | Yes No Field | ↓ | — | 8.40 | 9.39 | CMW 4/26/12 1135 | Buffer<br>10%H2SO4<br>10%NH4OH<br>NH4OH(conc) | WC1032781 |
| 4/26/12 1000 | R1202582 -010 | 7199 218.6 RL 218.6 LL 218.7 | Water Drinking Water | 4/25/12 1600 | Yes No Field | — | — | 5.51 | 9.46 | CMW 4/26/12 1455 | Buffer<br>10%H2SO4<br>10%NH4OH<br>NH4OH(conc) | WC1032781 |
| ↓ | R1202582 -012 | 7199 218.6 RL 218.6 LL 218.7 | Water Drinking Water | 4/25/12 1605 | Yes No Field | — | — | 5.63 | 9.39 | CMW 4/26/12 1458 | Buffer<br>10%H2SO4<br>10%NH4OH<br>NH4OH(conc) | WC1032781 |
| 4/27/12 0925 | Filter Blank For 4/27/12 | 7199 218.6 RL 218.6 LL 218.7 | Water Drinking Water | — | Yes No Field | Millex HV R1SA546201 | — | 7.65 | 9.33 | CMW 4/27/12 1004 | Buffer<br>10%H2SO4<br>10%NH4OH<br>NH4OH(conc) | WC1120226 |
| ↓ | MW1 R1202652-002 | 7199 218.6 RL 218.6 LL 218.7 | Water Drinking Water | 4/26/12 1325 | Yes No Field | ↓ | — | 6.60 | 9.38 | CMW 4/27/12 1005 | Buffer<br>10%H2SO4<br>10%NH4OH<br>NH4OH(conc) | WC1120226 |
| ↓ | MW2 R1202652 -001 | 7199 218.6 RL 218.6 LL 218.7 | Water Drinking Water | 4/26/12 1320 | Yes No Field | ↓ | — | 5.31 | 9.63 | CMW 4/27/12 1007 | Buffer<br>10%H2SO4<br>10%NH4OH<br>NH4OH(conc) | WC1120226 |
| ↓ | MW3 R1202652 -003 | 7199 218.6 RL 218.6 LL 218.7 | Water Drinking Water | 4/26/12 1440 | Yes No Field | ↓ | — | 6.01 | 9.67 | CMW 4/27/12 1008 | Buffer<br>10%H2SO4<br>10%NH4OH<br>NH4OH(conc) | WC1120226 |

| | Drinking water 218.7 | Drinking water 218.6 | Non-Pot Water 218.6 | Water 7199 |
|---|---|---|---|---|
| Filter | No | Required | Required | Optional |
| pH | >8.0 | 9.0-9.5 | 9.3-9.7 | unpreserved - adjust to 9.0-9.5 |
| Res Chlorine | <0.1 mg/L | NA | NA | NA |
| Holding Time | 14 days | 5 days | 28 days | 24 hours |



00022

| | | | |
|---|---|---|---|
| **Client:** | Tetra Tech NUS, Inc. | **Service Request:** | R1202604 |
| **Project:** | MSA Groundwater/112IC04021- 02 | **Date Collected:** | NA |
| **Sample Matrix:** | Water | **Date Received:** | NA |
| **Sample Name:** | Method Blank | | |
| **Lab Code:** | R1202604-MB | **Basis:** | NA |

## General Chemistry Parameters

| Analyte Name | Method | Result | Q | Units | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Note |
|---|---|---|---|---|---|---|---|---|---|---|
| Chromium, Hexavalent, Dissolved | 218.6 | 0.020 | U | µg/L | 0.020 | 0.004 | 1 | NA | 4/26/12 12:17 | |

**Client:** Tetra Tech NUS, Inc.
**Project:** MSA Groundwater/112IC04021- 02
**Sample Matrix:** Water

**Service Request:** R1202604
**Date Analyzed:** 4/26/12

## Lab Control Sample Summary
## General Chemistry Parameters

**Units:** µg/L
**Basis:** NA

| Analyte Name | Method | Lab Control Sample R1202604-LCS Result | Spike Amount | % Rec | % Rec Limits |
|---|---|---|---|---|---|
| Chromium, Hexavalent, Dissolved | 218.6 | 0.197 | 0.200 | 99 | 90 - 110 |

Results flagged with an asterisk (*) indicate values outside control criteria.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

**Client:** Tetra Tech NUS, Inc.
**Project:** MSA Groundwater/112IC04021- 02

**Service Request:** R1202604

## Continuing Calibration Verification (CCV) Summary
## Chromium, Hexavalent, Dissolved

**Analytical Method:** 218.6

**Units:** µg/L

| | Analysis Lot | Lab Code | Date Analyzed | True Value | Measured Value | Percent Recovery | Acceptance Limits |
|---|---|---|---|---|---|---|---|
| CCV1 | 289198 | RQ1204265-05 | 4/26/12 12:08 | 0.500 | 0.499 | 100 | 95 - 105 |
| CCV2 | 289198 | RQ1204265-04 | 4/26/12 13:49 | 0.500 | 0.515 | 103 | 95 - 105 |
| CCV3 | 289198 | RQ1204265-03 | 4/26/12 14:52 | 0.500 | 0.520 | 104 | 95 - 105 |

**Client:** Tetra Tech NUS, Inc. **Service Request:** R1202604
**Project:** MSA Groundwater/112IC04021- 02

## Continuing Calibration Blank (CCB) Summary
## Chromium, Hexavalent, Dissolved

**Analytical Method:** 218.6 **Units:** µg/L

| | Analysis Lot | Lab Code | Date Analyzed | MDL | MRL | Result | Q |
|---|---|---|---|---|---|---|---|
| CCB1 | 289198 | RQ1204265-08 | 4/26/12 12:17 | 0.004 | 0.020 | 0.020 | U |
| CCB2 | 289198 | RQ1204265-06 | 4/26/12 13:57 | 0.004 | 0.020 | 0.026 | |
| CCB3 | 289198 | RQ1204265-07 | 4/26/12 15:01 | 0.004 | 0.020 | 0.020 | |

# Analytical Results Summary

**Instrument Name:** R-IC-05 **Analyst:** CWOODS **Analysis Lot:** 289198 **Method/Testcode:** 218.6/Cr6 D

| Lab Code | Target Analytes | QC | Parent Sample | Matrix | Raw Result | Sample Amt. | Final Result | Dil | MDL | PQL | % Rec | % RSD | Date Analyzed | QC? | Tier |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RQ1204265-05 | Chromium, Hexavalent, Dissolved | CCV | | Water | 0.50 µg/L | 10 mL | 0.499 µg/L | 1 | | | | | 4/26/12 12:08:00 | N | IV |
| RQ1204265-08 | Chromium, Hexavalent, Dissolved | CCB | | Water | 0.00 µg/L | 10 mL | 0.020 µg/L U | 1 | 0.004 | 0.020 | | | 4/26/12 12:17:00 | N | IV |
| RQ1204265-09 | Chromium, Hexavalent, Dissolved | MB | | Water | 0.00 µg/L | 10 mL | 0.020 µg/L U | 1 | 0.004 | 0.020 | | | 4/26/12 12:17:00 | N | IV |
| RQ1204265-10 | Chromium, Hexavalent, Dissolved | LCS | | Water | 0.20 µg/L | 10 mL | 0.197 µg/L | 1 | 0.004 | 0.020 | 99 | | 4/26/12 12:25:00 | N | IV |
| R1202604-001 | Chromium, Hexavalent, Dissolved | N/A | | Water | 0.00 µg/L | 10 mL | 0.020 µg/L U | 1 | 0.004 | 0.020 | | | 4/26/12 12:42:00 | N | IV |
| R1202604-002 | Chromium, Hexavalent, Dissolved | N/A | | Water | 0.00 µg/L | 10 mL | 0.020 µg/L U | 1 | 0.004 | 0.020 | | | 4/26/12 12:50:00 | N | IV |
| R1202604-003 | Chromium, Hexavalent, Dissolved | N/A | | Water | 0.00 µg/L | 10 mL | 0.020 µg/L U | 1 | 0.004 | 0.020 | | | 4/26/12 12:59:00 | N | IV |
| RQ1204265-01 | Chromium, Hexavalent, Dissolved | DUP | R1202604-003 | Water | 0.00 µg/L | 10 mL | 0.020 µg/L U | 1 | 0.004 | 0.020 | | NC | 4/26/12 13:07:00 | N | IV |
| RQ1204265-02 | Chromium, Hexavalent, Dissolved | MS | R1202604-003 | Water | 0.20 µg/L | 10 mL | 0.201 µg/L | 1 | 0.004 | 0.020 | 100 | | 4/26/12 13:16:00 | N | IV |
| R1202557-003 | Chromium, Hexavalent, Dissolved | N/A | | Water | 0.00 µg/L | 10 mL | 0.020 µg/L U | 1 | 0.004 | 0.020 | | | 4/26/12 13:32:00 | N | IV |
| R1202557-005 | Chromium, Hexavalent, Dissolved | N/A | | Water | 0.00 µg/L | 10 mL | 0.020 µg/L U | 1 | 0.004 | 0.020 | | | 4/26/12 13:41:00 | N | IV |
| RQ1204265-04 | Chromium, Hexavalent, Dissolved | CCV | | Water | 0.52 µg/L | 10 mL | 0.515 µg/L | 1 | | | | | 4/26/12 13:49:00 | N | IV |
| RQ1204265-06 | Chromium, Hexavalent, Dissolved | CCB | | Water | 0.03 µg/L | 10 mL | 0.026 µg/L | 1 | 0.004 | 0.020 | | | 4/26/12 13:57:00 | N | IV |
| R1202581-001 | Chromium, Hexavalent, Dissolved | N/A | | Water | 0.00 µg/L | 10 mL | 0.020 µg/L U | 1 | 0.004 | 0.020 | | | 4/26/12 14:14:00 | N | IV |
| R1202581-002 | Chromium, Hexavalent, Dissolved | N/A | | Water | 0.00 µg/L | 10 mL | 0.020 µg/L U | 1 | 0.004 | 0.020 | | | 4/26/12 14:23:00 | N | IV |
| RQ1204265-03 | Chromium, Hexavalent, Dissolved | CCV | | Water | 0.52 µg/L | 10 mL | 0.520 µg/L | 1 | | | | | 4/26/12 14:52:00 | N | IV |
| RQ1204265-07 | Chromium, Hexavalent, Dissolved | CCB | | Water | 0.02 µg/L | 10 mL | 0.020 µg/L J | 1 | 0.004 | 0.020 | | | 4/26/12 15:01:00 | N | IV |

0001

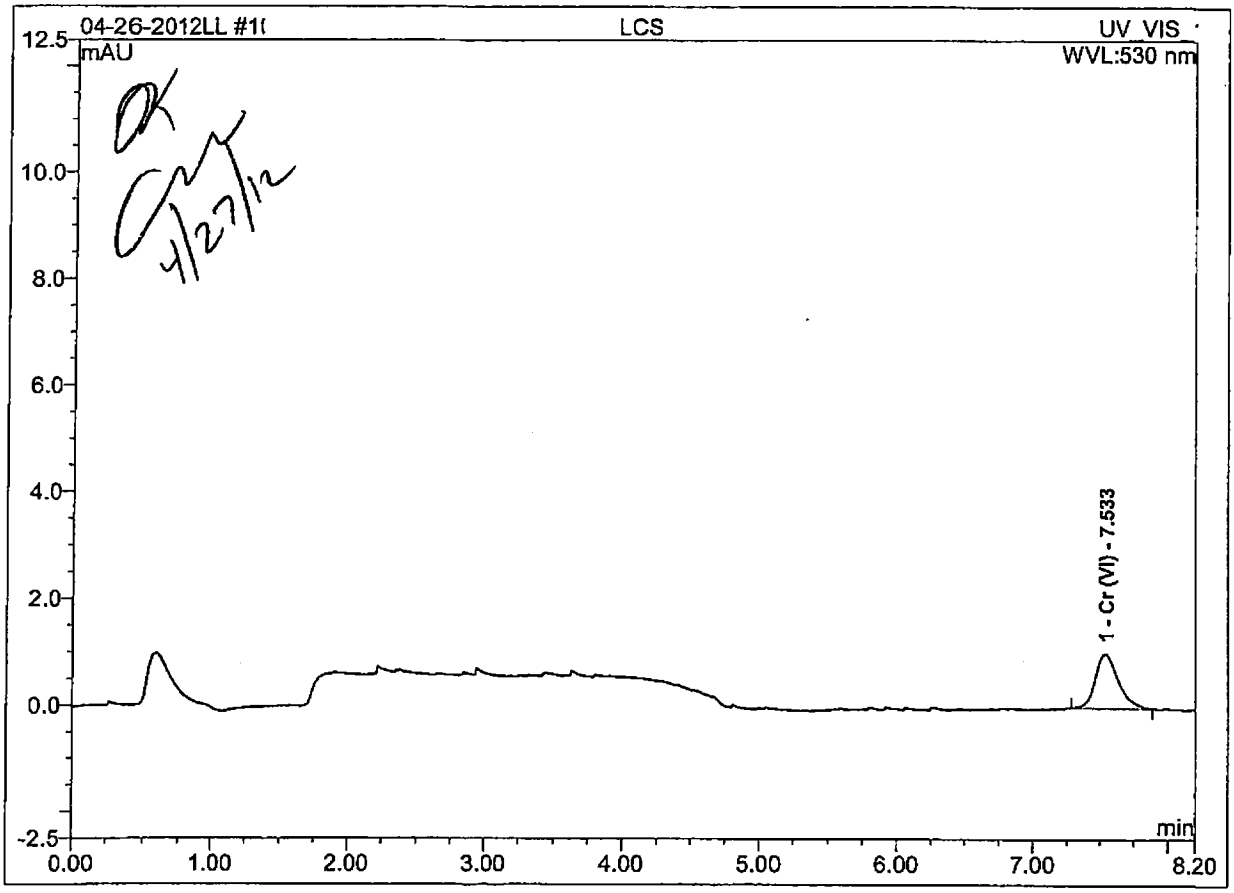
# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

LCS rep result 0.197 ug/L

## 10 LCS

**218.6 LL**

| | | | |
|---|---|---|---|
| *Sample Name:* | **LCS** | *Injection Volume:* | **2000.0** |
| *Vial Number:* | **34** | *Channel:* | **UV_VIS_1** |
| *Sample Type:* | **unknown** | *Dilution Factor:* | **1** |
| *Control Program:* | **Fast Hexavalent Chromium LL** | *Sample Weight:* | **1.0000** |
| *Quantif. Method:* | **5-042612CLL** | *Sample Amount:* | **1.0000** |
| *Recording Time:* | **4/26/2012 12:25** | | |




OK 4/27/12

| No. | Ret.Time min | Peak Name | Height mAU | Area mAU*min | Rel.Area % | Amount ppb | Type |
|---|---|---|---|---|---|---|---|
| 1 | 7.533 | Cr (VI) | 1.023 | 0.201 | 100.00 | 0.19736 | BMB |
| **Total:** | | | 1.023 | 0.201 | 100.00 | 0.197 | |

# APPENDIX H—CHEMICAL DATA TABLES

**Table H-1**

**Soil Sample Summary Table**
**Main Terminal, Martin State Airport, Middle River, Maryland**


| LOCATION | MT-SB17 | | MT-SS18 | | MT-SS19 | |
|---|---|---|---|---|---|---|
| SAMPLE ID | MT-SS17-0-2 | MT-SS17-8-10 | MT-SS18-0-2 | MT-SS18-8-10 | MT-SS19-0-2 | MT-SS19-8-10 |
| SAMPLE DATE | 20120710 | 20120710 | 20120710 | 20120710 | 20120709 | 20120709 |
| SAMPLE CODE | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL |
| MATRIX | SO | SO | SO | SO | SO | SO |
| SAMPLE TYPE | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL |
| SUBMATRIX | SS | SB | SS | SB | SS | SB |
| TOP DEPTH | 0 | 8 | 0 | 8 | 0 | 8 |
| BOTTOM DEPTH | 2 | 10 | 2 | 10 | 2 | 10 |
| **METALS (MG/KG)** | | | | | | |
| ANTIMONY | 0.42 U | 0.4 U | 0.79 B | 0.44 U | 0.43 UL | 0.46 B |
| ARSENIC | 5.7 | 2.4 L | 6.7 | 1 J | 6.2 | 6.4 |
| BARIUM | 20 J | 13 J | 9.3 J | 10 J | 13 J | 13 J |
| BERYLLIUM | 2.4 | 1.8 | 2.4 | 0.44 B | 1.6 | 2.7 |
| CADMIUM | 0.039 U | 0.037 U | 0.035 U | 0.04 U | 0.04 U | 0.036 U |
| CHROMIUM | 19 | 25 | 29 | 20 | 24 L | 23 L |
| COBALT | 9.7 | 4.7 | 7 | 1.8 L | 7.5 | 14 |
| COPPER | 17 | 13 | 36 | 4.7 | 33 | 25 |
| LEAD | 7.8 | 5.2 | 1.9 | 1 J | 6.7 | 3.8 |
| MERCURY | 0.017 U | 0.019 U | 0.017 U | 0.018 U | 0.018 U | 0.019 U |
| MOLYBDENUM | 0.29 U | 0.55 B | 0.26 U | 0.3 U | 0.77 B | 0.41 B |
| NICKEL | 22 | 17 | 16 | 3.3 J | 30 J | 52 J |
| SELENIUM | 0.48 U | 0.46 U | 0.98 J | 0.5 U | 0.5 UL | 0.46 UL |
| SILVER | 0.11 UL | 0.1 UL | 0.096 UL | 0.11 UL | 0.11 UL | 0.1 UL |
| THALLIUM | 0.59 UL | 0.56 UL | 0.53 UL | 0.62 UL | 0.61 UL | 0.56 UL |
| VANADIUM | 28 | 46 | 80 | 14 | 43 L | 29 L |
| ZINC | 79 | 17 | 20 | 4.9 J | 38 | 72 |
| **PCBS (UG/KG)** | | | | | | |
| AROCLOR-1016 | 25 U | 26 U | 25 U | 25 U | 25 U | 24 U |
| AROCLOR-1221 | 19 U | 20 U | 19 U | 19 U | 19 U | 19 U |
| AROCLOR-1232 | 17 U | 17 U | 17 U | 17 U | 17 U | 16 U |
| AROCLOR-1242 | 16 U | 16 U | 16 U | 15 U | 16 U | 15 U |
| AROCLOR-1248 | 20 U | 21 U | 20 U | 20 U | 20 U | 20 U |
| AROCLOR-1254 | 20 U | 21 U | 20 U | 20 U | 20 U | 20 U |
| AROCLOR-1260 | 20 U | 21 U | 20 U | 20 U | 20 U | 20 U |
| TOTAL AROCLOR | 0 U | 0 U | 0 U | 0 U | 0 U | 0 U |
| TOTAL AROCLOR HALFND | 68.5 | 71 | 68.5 | 68 | 68.5 | 67 |
| **PETROLEUM HYDROCARBONS (MG/KG)** | | | | | | |
| TPH (C10-C32) | 240 | 28 | 11 UJ | 11 UJ | 11 B | 11 U |
| **PETROLEUM HYDROCARBONS (UG/KG)** | | | | | | |
| TPH (C06-C10) | 130 | 56 U | 380 | 54 U | 55 U | 54 U |
| **SEMIVOLATILES (UG/KG)** | | | | | | |

**Table H-1**

**Soil Sample Summary Table**
**Main Terminal, Martin State Airport, Middle River, Maryland**


| LOCATION | MT-SB17 | | MT-SS18 | | MT-SS19 | |
|---|---|---|---|---|---|---|
| SAMPLE ID | MT-SS17-0-2 | MT-SS17-8-10 | MT-SS18-0-2 | MT-SS18-8-10 | MT-SS19-0-2 | MT-SS19-8-10 |
| SAMPLE DATE | 20120710 | 20120710 | 20120710 | 20120710 | 20120709 | 20120709 |
| SAMPLE CODE | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL |
| MATRIX | SO | SO | SO | SO | SO | SO |
| SAMPLE TYPE | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL |
| SUBMATRIX | SS | SB | SS | SB | SS | SB |
| TOP DEPTH | 0 | 8 | 0 | 8 | 0 | 8 |
| BOTTOM DEPTH | 2 | 10 | 2 | 10 | 2 | 10 |
| 1,1-BIPHENYL | 33 U | 32 U | 32 U | 32 U | 33 U | 31 U |
| 1,4-DIOXANE | 27 U | 26 U | 26 U | 26 U | 27 U | 26 U |
| 2,2'-OXYBIS(1-CHLOROPROPANE) | 11 U | 11 U | 11 U | 11 U | 12 U | 11 U |
| 2,4,5-TRICHLOROPHENOL | 30 U | 30 U | 29 U | 29 U | 30 U | 29 U |
| 2,4,6-TRICHLOROPHENOL | 97 U | 96 U | 94 U | 94 U | 97 U | 93 U |
| 2,4-DICHLOROPHENOL | 24 U | 24 U | 24 U | 23 U | 24 U | 23 U |
| 2,4-DIMETHYLPHENOL | 25 J | 24 U | 24 U | 23 U | 24 U | 23 U |
| 2,4-DINITROPHENOL | 97 U | 96 U | 94 U | 94 U | 97 U | 93 U |
| 2,4-DINITROTOLUENE | 33 U | 32 U | 32 U | 32 U | 33 U | 31 U |
| 2,6-DINITROTOLUENE | 25 U | 25 U | 25 U | 25 U | 25 U | 24 U |
| 2-CHLORONAPHTHALENE | 4 U | 4 U | 3.9 U | 3.9 U | 4 U | 3.8 U |
| 2-CHLOROPHENOL | 33 U | 32 U | 32 U | 32 U | 33 U | 31 U |
| 2-METHYLNAPHTHALENE | 18 | 4 U | 3.9 U | 3.9 U | 4 U | 3.8 U |
| 2-METHYLPHENOL | 97 U | 96 U | 94 U | 94 U | 97 U | 93 U |
| 2-NITROANILINE | 11 U | 11 U | 11 U | 11 U | 11 U | 11 U |
| 2-NITROPHENOL | 33 U | 32 U | 32 U | 32 U | 33 U | 31 U |
| 3&4-METHYLPHENOL | 24 U | 24 U | 24 U | 23 U | 24 U | 23 U |
| 3,3'-DICHLOROBENZIDINE | 22 U | 22 U | 21 U | 21 U | 22 U | 21 U |
| 3-NITROANILINE | 19 U | 19 U | 19 U | 19 U | 19 U | 19 U |
| 4,6-DINITRO-2-METHYLPHENOL | 97 U | 96 U | 94 U | 94 U | 97 U | 93 U |
| 4-BROMOPHENYL PHENYL ETHER | 16 U | 16 U | 15 U | 15 U | 16 U | 15 U |
| 4-CHLORO-3-METHYLPHENOL | 25 U | 25 U | 25 U | 25 U | 25 U | 24 U |
| 4-CHLOROANILINE | 21 U | 20 U | 20 U | 20 U | 21 U | 20 U |
| 4-CHLOROPHENYL PHENYL ETHER | 16 U | 16 U | 15 U | 15 U | 16 U | 15 U |
| 4-NITROANILINE | 31 U | 31 U | 31 U | 31 U | 32 U | 30 U |
| 4-NITROPHENOL | 97 U | 96 U | 94 U | 94 U | 97 U | 93 U |
| ACENAPHTHENE | 4 U | 4 U | 3.9 U | 3.9 U | 4 U | 3.8 U |
| ACENAPHTHYLENE | 15 | 17 | 3.9 U | 3.9 U | 4 U | 3.8 U |
| ACETOPHENONE | 25 J | 11 U | 11 U | 11 U | 11 U | 11 U |
| ANTHRACENE | 25 | 39 | 3.9 U | 3.9 U | 4 U | 3.8 U |
| ATRAZINE | 11 U | 11 U | 11 U | 11 U | 11 U | 11 U |
| BAP EQUIVALENT-HALFND | 218.95 | 465.65 | 3.9 U | 3.9 U | 4 U | 9.55965 |
| BAP EQUIVALENT-POS | 218.95 | 465.65 | 3.9 U | 3.9 U | 4 U | 7.279 |

**Table H-1**

**Soil Sample Summary Table**
**Main Terminal, Martin State Airport, Middle River, Maryland**


| LOCATION | MT-SB17 | | MT-SS18 | | MT-SS19 | |
|---|---|---|---|---|---|---|
| SAMPLE ID | MT-SS17-0-2 | MT-SS17-8-10 | MT-SS18-0-2 | MT-SS18-8-10 | MT-SS19-0-2 | MT-SS19-8-10 |
| SAMPLE DATE | 20120710 | 20120710 | 20120710 | 20120710 | 20120709 | 20120709 |
| SAMPLE CODE | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL |
| MATRIX | SO | SO | SO | SO | SO | SO |
| SAMPLE TYPE | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL |
| SUBMATRIX | SS | SB | SS | SB | SS | SB |
| TOP DEPTH | 0 | 8 | 0 | 8 | 0 | 8 |
| BOTTOM DEPTH | 2 | 10 | 2 | 10 | 2 | 10 |
| BENZALDEHYDE | 15 U | 14 U | 14 U | 14 U | 15 U | 14 U |
| BENZO(A)ANTHRACENE | 110 | 240 | 3.9 U | 3.9 U | 4 U | 3.8 U |
| BENZO(A)PYRENE | 150 | 310 | 3.9 U | 3.9 U | 4 U | 6.6 J |
| BENZO(B)FLUORANTHENE | 190 | 440 | 3.9 U | 3.9 U | 4 U | 6.3 J |
| BENZO(G,H,I)PERYLENE | 130 | 280 | 3.9 U | 3.9 U | 4 U | 3.8 U |
| BENZO(K)FLUORANTHENE | 99 | 230 | 3.9 U | 3.9 U | 4 U | 4.9 J |
| BIS(2-CHLOROETHOXY)METHANE | 27 U | 26 U | 26 U | 26 U | 27 U | 26 U |
| BIS(2-CHLOROETHYL)ETHER | 2.4 U | 2.4 U | 2.4 U | 2.3 U | 2.4 U | 2.3 U |
| BIS(2-ETHYLHEXYL)PHTHALATE | 38 J | 58 J | 34 J | 25 J | 23 U | 26 B |
| BUTYL BENZYL PHTHALATE | 12 U | 12 U | 12 U | 12 U | 12 U | 12 U |
| CAPROLACTAM | 45 U | 45 U | 43 U | 43 U | 45 U | 43 U |
| CARBAZOLE | 33 U | 32 U | 32 U | 32 U | 33 U | 31 U |
| CHRYSENE | 160 | 350 | 1.3 U | 1.3 U | 1.3 U | 1.3 U |
| DIBENZO(A,H)ANTHRACENE | 28 | 62 | 3.9 U | 3.9 U | 4 U | 3.8 U |
| DIBENZOFURAN | 4 U | 4 U | 3.9 U | 3.9 U | 4 U | 3.8 U |
| DIETHYL PHTHALATE | 19 U | 19 U | 19 U | 19 U | 19 U | 19 U |
| DIMETHYL PHTHALATE | 21 U | 20 U | 20 U | 20 U | 21 U | 20 U |
| DI-N-BUTYL PHTHALATE | 35 J | 29 J | 20 J | 18 U | 18 U | 34 J |
| DI-N-OCTYL PHTHALATE | 33 U | 32 U | 32 U | 32 U | 33 U | 31 U |
| FLUORANTHENE | 190 | 510 | 8.7 | 3.9 U | 4 U | 15 |
| FLUORENE | 4 U | 10 | 3.9 U | 3.9 U | 4 U | 3.8 U |
| HEXACHLOROBENZENE | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.4 U |
| HEXACHLOROBUTADIENE | 33 U | 32 U | 32 U | 32 U | 33 U | 31 U |
| HEXACHLOROCYCLOPENTADIENE | 33 UR | 32 U | 32 U | 32 U | 33 U | 31 U |
| HEXACHLOROETHANE | 11 U | 11 U | 11 U | 11 U | 11 U | 10 U |
| INDENO(1,2,3-CD)PYRENE | 98 | 230 | 3.9 U | 3.9 U | 4 U | 3.8 U |
| ISOPHORONE | 16 U | 16 U | 15 U | 15 U | 16 U | 15 U |
| NAPHTHALENE | 30 | 4 U | 3.9 U | 3.9 U | 4 U | 3.8 U |
| NITROBENZENE | 2.7 U | 2.6 U | 2.6 U | 2.6 U | 2.7 U | 2.6 U |
| N-NITROSODIMETHYLAMINE | 19 U | 19 U | 19 U | 19 U | 19 U | 19 U |
| N-NITROSO-DI-N-PROPYLAMINE | 33 U | 32 U | 32 U | 32 U | 33 U | 31 U |
| N-NITROSODIPHENYLAMINE | 25 U | 25 U | 25 U | 25 U | 25 U | 24 U |
| PENTACHLOROPHENOL | 97 U | 96 U | 94 U | 94 U | 97 U | 93 U |

**Table H-1**

**Soil Sample Summary Table**
**Main Terminal, Martin State Airport, Middle River, Maryland**


| LOCATION | MT-SB17 | | MT-SS18 | | MT-SS19 | |
|---|---|---|---|---|---|---|
| SAMPLE ID | MT-SS17-0-2 | MT-SS17-8-10 | MT-SS18-0-2 | MT-SS18-8-10 | MT-SS19-0-2 | MT-SS19-8-10 |
| SAMPLE DATE | 20120710 | 20120710 | 20120710 | 20120710 | 20120709 | 20120709 |
| SAMPLE CODE | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL |
| MATRIX | SO | SO | SO | SO | SO | SO |
| SAMPLE TYPE | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL |
| SUBMATRIX | SS | SB | SS | SB | SS | SB |
| TOP DEPTH | 0 | 8 | 0 | 8 | 0 | 8 |
| BOTTOM DEPTH | 2 | 10 | 2 | 10 | 2 | 10 |
| PHENANTHRENE | 65 | 150 | 3.9 U | 3.9 U | 4 U | 3.8 U |
| PHENOL | 37 J | 32 U | 32 U | 32 U | 33 U | 31 U |
| PYRENE | 210 | 450 | 3.9 U | 3.9 U | 4 U | 16 |
| **TCLP HERBICIDES (MG/L)** | | | | | | |
| 2,4,5-TP (SILVEX) | NA | NA | NA | NA | NA | NA |
| 2,4-D | NA | NA | NA | NA | NA | NA |
| **TCLP METALS (MG/L)** | | | | | | |
| ARSENIC | NA | NA | NA | NA | NA | NA |
| BARIUM | NA | NA | NA | NA | NA | NA |
| CADMIUM | NA | NA | NA | NA | NA | NA |
| CHROMIUM | NA | NA | NA | NA | NA | NA |
| LEAD | NA | NA | NA | NA | NA | NA |
| MERCURY | NA | NA | NA | NA | NA | NA |
| SELENIUM | NA | NA | NA | NA | NA | NA |
| SILVER | NA | NA | NA | NA | NA | NA |
| **TCLP PESTICIDE/PCBS (MG/L)** | | | | | | |
| CHLORDANE | NA | NA | NA | NA | NA | NA |
| ENDRIN | NA | NA | NA | NA | NA | NA |
| GAMMA-BHC (LINDANE) | NA | NA | NA | NA | NA | NA |
| HEPTACHLOR | NA | NA | NA | NA | NA | NA |
| HEPTACHLOR EPOXIDE | NA | NA | NA | NA | NA | NA |
| METHOXYCHLOR | NA | NA | NA | NA | NA | NA |
| TOXAPHENE | NA | NA | NA | NA | NA | NA |
| **TCLP SEMIVOLATILES (MG/L)** | | | | | | |
| 1,4-DICHLOROBENZENE | NA | NA | NA | NA | NA | NA |
| 2,4,5-TRICHLOROPHENOL | NA | NA | NA | NA | NA | NA |
| 2,4,6-TRICHLOROPHENOL | NA | NA | NA | NA | NA | NA |
| 2,4-DINITROTOLUENE | NA | NA | NA | NA | NA | NA |
| 2-METHYLPHENOL | NA | NA | NA | NA | NA | NA |
| 3&4-METHYLPHENOL | NA | NA | NA | NA | NA | NA |
| HEXACHLOROBENZENE | NA | NA | NA | NA | NA | NA |
| HEXACHLOROBUTADIENE | NA | NA | NA | NA | NA | NA |
| HEXACHLOROETHANE | NA | NA | NA | NA | NA | NA |

**Table H-1**

**Soil Sample Summary Table**
**Main Terminal, Martin State Airport, Middle River, Maryland**


| LOCATION | MT-SB17 | | MT-SS18 | | MT-SS19 | |
|---|---|---|---|---|---|---|
| SAMPLE ID | MT-SS17-0-2 | MT-SS17-8-10 | MT-SS18-0-2 | MT-SS18-8-10 | MT-SS19-0-2 | MT-SS19-8-10 |
| SAMPLE DATE | 20120710 | 20120710 | 20120710 | 20120710 | 20120709 | 20120709 |
| SAMPLE CODE | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL |
| MATRIX | SO | SO | SO | SO | SO | SO |
| SAMPLE TYPE | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL |
| SUBMATRIX | SS | SB | SS | SB | SS | SB |
| TOP DEPTH | 0 | 8 | 0 | 8 | 0 | 8 |
| BOTTOM DEPTH | 2 | 10 | 2 | 10 | 2 | 10 |
| NITROBENZENE | NA | NA | NA | NA | NA | NA |
| PENTACHLOROPHENOL | NA | NA | NA | NA | NA | NA |
| PYRIDINE | NA | NA | NA | NA | NA | NA |
| **TCLP VOLATILES (MG/L)** | | | | | | |
| 1,1-DICHLOROETHENE | NA | NA | NA | NA | NA | NA |
| 1,2-DICHLOROETHANE | NA | NA | NA | NA | NA | NA |
| 2-BUTANONE | NA | NA | NA | NA | NA | NA |
| BENZENE | NA | NA | NA | NA | NA | NA |
| CARBON TETRACHLORIDE | NA | NA | NA | NA | NA | NA |
| CHLOROBENZENE | NA | NA | NA | NA | NA | NA |
| CHLOROFORM | NA | NA | NA | NA | NA | NA |
| TETRACHLOROETHENE | NA | NA | NA | NA | NA | NA |
| TRICHLOROETHENE | NA | NA | NA | NA | NA | NA |
| VINYL CHLORIDE | NA | NA | NA | NA | NA | NA |
| **VOLATILES (UG/KG)** | | | | | | |
| 1,1,1,2-TETRACHLOROETHANE | 0.52 U | 0.57 U | 10 U | 0.62 U | 0.55 U | 0.6 U |
| 1,1,1-TRICHLOROETHANE | 0.47 U | 0.51 U | 24 U | 0.56 U | 0.5 U | 0.55 U |
| 1,1,2,2-TETRACHLOROETHANE | 0.29 U | 0.31 U | 10 U | 0.34 U | 0.3 U | 0.33 U |
| 1,1,2-TRICHLOROTRIFLUOROETHANE | 1.1 U | 1.2 U | 44 U | 1.3 U | 1.2 U | 1.3 U |
| 1,1,3-TRIMETHYLCYCLOHEXANE | 4.4 NJ | NA | NA | NA | NA | NA |
| 1,1-DICHLOROETHANE | 0.3 U | 0.33 U | 19 U | 0.36 U | 0.32 U | 0.35 U |
| 1,1-DICHLOROETHENE | 0.44 U | 0.48 U | 20 U | 0.52 U | 0.46 U | 0.51 U |
| 1,1-DICHLOROPROPENE | 0.25 U | 0.28 U | 11 U | 0.3 U | 0.27 U | 0.29 U |
| 1,2,3-TRICHLOROBENZENE | 0.32 U | 0.35 U | 11 U | 0.38 U | 0.34 U | 0.37 U |
| 1,2,3-TRICHLOROPROPANE | 0.76 U | 0.83 U | 24 U | 0.9 U | 0.8 U | 0.88 U |
| 1,2,3-TRIMETHYLBENZENE | 1.9 J | 0.16 U | 33 J | 3.9 J | 0.15 U | 0.17 U |
| 1,2,4-TRICHLOROBENZENE | 0.23 U | 0.25 U | 8.2 U | 0.27 U | 0.24 U | 0.26 U |
| 1,2,4-TRIMETHYLBENZENE | 2.3 J | 0.6 U | 34 J | 0.65 U | 0.58 U | 0.63 U |
| 1,2-DIBROMO-3-CHLOROPROPANE | 1.1 U | 1.2 U | 56 U | 1.3 U | 1.2 U | 1.3 U |
| 1,2-DIBROMOETHANE | 0.42 U | 0.46 U | 11 U | 0.5 U | 0.45 U | 0.49 U |
| 1,2-DICHLOROBENZENE | 0.3 U | 0.33 U | 9.6 U | 0.36 U | 0.32 U | 0.35 U |
| 1,2-DICHLOROETHANE | 0.29 U | 0.31 U | 11 U | 0.34 U | 0.3 U | 0.33 U |
| 1,2-DICHLOROPROPANE | 0.58 U | 0.63 U | 9.2 U | 0.69 U | 0.61 U | 0.67 U |

**Table H-1**

**Soil Sample Summary Table**
**Main Terminal, Martin State Airport, Middle River, Maryland**


| LOCATION | MT-SB17 | | MT-SS18 | | MT-SS19 | |
|---|---|---|---|---|---|---|
| SAMPLE ID | MT-SS17-0-2 | MT-SS17-8-10 | MT-SS18-0-2 | MT-SS18-8-10 | MT-SS19-0-2 | MT-SS19-8-10 |
| SAMPLE DATE | 20120710 | 20120710 | 20120710 | 20120710 | 20120709 | 20120709 |
| SAMPLE CODE | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL |
| MATRIX | SO | SO | SO | SO | SO | SO |
| SAMPLE TYPE | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL |
| SUBMATRIX | SS | SB | SS | SB | SS | SB |
| TOP DEPTH | 0 | 8 | 0 | 8 | 0 | 8 |
| BOTTOM DEPTH | 2 | 10 | 2 | 10 | 2 | 10 |
| 1,3,5-TRIMETHYLBENZENE | 1.3 NJ | NA | 45 NJ | NA | NA | NA |
| 1,3-DICHLOROBENZENE | 0.29 U | 0.32 U | 5.4 U | 0.35 U | 0.31 U | 0.34 U |
| 1,3-DICHLOROPROPANE | 0.29 U | 0.31 U | 25 U | 0.34 U | 0.3 U | 0.33 U |
| 1,4-DICHLOROBENZENE | 0.55 U | 0.61 U | 9 U | 0.66 U | 0.59 U | 0.64 U |
| 2,2-DICHLOROPROPANE | 0.79 U | 0.86 U | 26 U | 0.94 U | 0.84 U | 0.92 U |
| 2,3,3-TRIMETHYLPENTANE | NA | NA | NA | 13 NJ | NA | NA |
| 2,3,4-TRIMETHYLPENTANE | NA | NA | NA | 9.7 NJ | NA | NA |
| 2,3-DIMETHYLPENTANE | NA | NA | NA | 8.2 NJ | NA | NA |
| 2,4-DIMETHYLPENTANE | NA | NA | NA | 8.8 NJ | NA | NA |
| 2-BUTANONE | 4.1 J | 3 J | 48 U | 1.4 U | 1.2 U | 1.4 U |
| 2-CHLOROETHYL VINYL ETHER | 1.2 U | 1.3 U | 48 U | 1.4 U | 1.2 UR | 1.4 UR |
| 2-CHLOROTOLUENE | 0.34 U | 0.37 U | 10 U | 0.4 U | 0.36 U | 0.39 U |
| 2-HEXANONE | 0.53 U | 0.58 U | 22 U | 0.63 U | 0.56 U | 0.61 U |
| 2-METHYLBUTANE | NA | NA | NA | 30 NJ | NA | NA |
| 3-METHYLPENTANE | NA | NA | NA | 11 NJ | NA | NA |
| 4-CHLOROTOLUENE | 0.34 U | 0.38 U | 11 U | 0.41 U | 0.36 U | 0.4 U |
| 4-ISOPROPYLTOLUENE | 1.3 J | 0.19 U | 26 J | 0.21 U | 0.19 U | 0.2 U |
| 4-METHYL-2-PENTANONE | 0.45 U | 0.5 U | 54 U | 0.54 U | 0.48 U | 0.53 U |
| ACETONE | 42 | 65 | 190 U | 6.3 U | 5.6 U | 6.1 U |
| BENZENE | 0.19 U | 0.21 U | 13 U | 5.4 | 0.2 U | 0.22 U |
| BENZENE, 1-ETHYL-2,3-DIMETHYL- | 4.6 NJ | NA | NA | NA | NA | NA |
| BENZENE, 1-METHYL-2-(1-METHYLETHYL)- | 8.2 NJ | NA | NA | NA | NA | NA |
| BENZENE, 1-METHYL-4-(1-METHYLETHYL)- | 5.1 NJ | NA | NA | NA | NA | NA |
| BROMOBENZENE | 0.28 U | 0.3 U | 15 U | 0.33 U | 0.29 U | 0.32 U |
| BROMOCHLOROMETHANE | 0.6 U | 0.65 U | 15 U | 0.71 U | 0.63 U | 0.69 U |
| BROMODICHLOROMETHANE | 0.23 U | 0.26 U | 11 U | 0.28 U | 0.25 U | 0.27 U |
| BROMOFORM | 0.28 U | 0.3 U | 21 U | 0.33 U | 0.29 U | 0.32 U |
| BROMOMETHANE | 0.45 U | 0.5 U | 33 U | 0.54 U | 0.48 U | 0.53 U |
| BUTANE, 2,2,3,3-TETRAMETHYL- | NA | NA | NA | 26 NJ | NA | NA |
| CARBON DISULFIDE | 3 J | 0.4 U | 13 U | 4.2 J | 0.39 U | 0.43 U |
| CARBON TETRACHLORIDE | 0.31 U | 0.34 U | 490 | 78 | 0.33 U | 0.36 U |
| CHLOROBENZENE | 0.28 U | 0.3 U | 7.2 U | 0.33 U | 0.29 U | 0.32 U |
| CHLORODIBROMOMETHANE | 0.46 U | 0.51 U | 13 U | 0.55 U | 0.49 U | 0.54 U |

**Table H-1**

**Soil Sample Summary Table**
**Main Terminal, Martin State Airport, Middle River, Maryland**


| LOCATION | MT-SB17 | | MT-SS18 | | MT-SS19 | |
|---|---|---|---|---|---|---|
| SAMPLE ID | MT-SS17-0-2 | MT-SS17-8-10 | MT-SS18-0-2 | MT-SS18-8-10 | MT-SS19-0-2 | MT-SS19-8-10 |
| SAMPLE DATE | 20120710 | 20120710 | 20120710 | 20120710 | 20120709 | 20120709 |
| SAMPLE CODE | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL |
| MATRIX | SO | SO | SO | SO | SO | SO |
| SAMPLE TYPE | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL |
| SUBMATRIX | SS | SB | SS | SB | SS | SB |
| TOP DEPTH | 0 | 8 | 0 | 8 | 0 | 8 |
| BOTTOM DEPTH | 2 | 10 | 2 | 10 | 2 | 10 |
| CHLOROETHANE | 0.72 U | 0.79 U | 68 U | 0.86 U | 0.77 U | 0.84 U |
| CHLOROFORM | 0.24 U | 0.27 U | 55 J | 32 | 0.26 U | 0.28 U |
| CHLOROMETHANE | 0.34 U | 0.38 U | 16 U | 0.41 U | 0.36 U | 0.4 U |
| CIS-1,2-DICHLOROETHENE | 5.2 | 0.33 U | 7.7 U | 0.36 U | 0.32 U | 0.35 U |
| CIS-1,3-DICHLOROPROPENE | 0.29 U | 0.31 U | 8.9 U | 0.34 U | 0.3 U | 0.33 U |
| CYCLOHEXANE | NA | 0.32 J | 140 J | 16 J | NA | NA |
| CYCLOTETRASILOXANE, OCTAMETHYL- | 21 R | NA | NA | 11 R | 11 R | 5.3 R |
| DIBROMOMETHANE | 0.53 U | 0.58 U | 16 U | 0.63 U | 0.56 U | 0.61 U |
| DICHLORODIFLUOROMETHANE | 0.42 U | 0.46 U | 18 U | 0.5 U | 0.45 U | 0.49 U |
| DIISOPROPYL ETHER | 1.3 U | 1.4 U | 56 U | 1.5 U | 1.3 U | 1.5 U |
| ETHYL TERT-BUTYL ETHER | 0.18 U | 0.2 U | 0.25 U | 0.22 U | 0.2 U | 0.21 U |
| ETHYLBENZENE | 0.34 J | 0.24 U | 27 J | 0.26 U | 0.23 U | 0.25 U |
| HEXACHLOROBUTADIENE | 1 U | 1.1 U | 16 U | 1.2 U | 1.1 U | 1.2 U |
| HEXANE | 1.2 J | NA | NA | NA | 2.6 J | 2.6 J |
| HEXANE, 2,2,4-TRIMETHYL- | NA | NA | NA | 6.6 NJ | NA | NA |
| ISOPROPYLBENZENE | 0.24 J | 0.15 U | 8.3 J | 0.95 J | 0.14 U | 0.16 U |
| M+P-XYLENES | 1 U | 1.1 U | 67 J | 1.2 U | 1.1 U | 1.2 U |
| METHYL CYCLOHEXANE | 2.6 J | NA | 28 J | NA | NA | NA |
| METHYL TERT-BUTYL ETHER | 0.36 U | 0.39 U | 8 U | 0.43 U | 0.38 U | 0.42 U |
| METHYLENE CHLORIDE | 0.56 U | 0.62 U | 86 U | 0.71 J | 1.9 B | 3 B |
| NAPHTHALENE | 0.62 B | 0.17 U | 23 J | 1.1 B | 0.17 U | 1.6 B |
| N-BUTYLBENZENE | 0.19 U | 0.21 U | 9 U | 0.46 B | 0.2 U | 0.22 U |
| N-PROPYLBENZENE | 0.34 U | 0.37 U | 16 U | 0.4 U | 0.36 U | 0.39 U |
| O-XYLENE | 0.46 J | 0.32 U | 49 J | 2.5 J | 0.31 U | 0.34 U |
| SEC-BUTYLBENZENE | 0.64 J | 0.17 U | 5.3 U | 0.54 J | 0.16 U | 0.18 U |
| STYRENE | 0.13 U | 0.14 U | 6.3 U | 0.15 U | 0.13 U | 0.15 U |
| TERT-AMYL METHYL ETHER | 0.31 U | 0.34 U | 0.41 U | 0.37 U | 0.33 U | 0.36 U |
| TERT-BUTYLBENZENE | 0.24 U | 0.27 U | 7.3 U | 0.45 J | 0.26 U | 0.28 U |
| TERTIARY-BUTYL ALCOHOL | 6.4 UR | 7 UR | 270 UR | 7.6 UR | 6.8 UR | 7.4 UR |
| TETRACHLOROETHENE | 0.44 U | 0.48 U | 13 U | 0.52 U | 0.46 U | 0.51 U |
| TETRAHYDROFURAN | NA | NA | 80 NJ | NA | NA | NA |
| TOLUENE | 0.49 J | 0.28 J | 19 U | 0.48 J | 0.24 U | 0.26 U |
| TOTAL XYLENES | 0.56 U | 0.62 U | 120 J | 2.5 J | 0.6 U | 0.65 U |

**Table H-1**

**Soil Sample Summary Table**
**Main Terminal, Martin State Airport, Middle River, Maryland**


| LOCATION | MT-SB17 | | MT-SS18 | | MT-SS19 | |
|---|---|---|---|---|---|---|
| SAMPLE ID | MT-SS17-0-2 | MT-SS17-8-10 | MT-SS18-0-2 | MT-SS18-8-10 | MT-SS19-0-2 | MT-SS19-8-10 |
| SAMPLE DATE | 20120710 | 20120710 | 20120710 | 20120710 | 20120709 | 20120709 |
| SAMPLE CODE | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL |
| MATRIX | SO | SO | SO | SO | SO | SO |
| SAMPLE TYPE | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL |
| SUBMATRIX | SS | SB | SS | SB | SS | SB |
| TOP DEPTH | 0 | 8 | 0 | 8 | 0 | 8 |
| BOTTOM DEPTH | 2 | 10 | 2 | 10 | 2 | 10 |
| TRANS-1,2-DICHLOROETHENE | 0.34 U | 0.38 U | 10 U | 0.41 U | 0.36 U | 0.4 U |
| TRANS-1,3-DICHLOROPROPENE | 0.45 U | 0.5 U | 22 U | 0.54 U | 0.48 U | 0.53 U |
| TRICHLOROETHENE | 0.35 U | 0.39 U | 11 U | 0.42 U | 0.37 U | 0.41 U |
| TRICHLOROFLUOROMETHANE | 0.29 U | 0.31 U | 18 U | 0.34 U | 0.3 U | 0.33 U |
| UNKNOWN | 6.3 NJ | NA | NA | NA | NA | NA |
| VINYL ACETATE | 0.21 UR | 0.23 UR | 26 UR | 0.25 UR | 0.22 UR | 0.24 UR |
| VINYL CHLORIDE | 2.5 J | 0.36 U | 20 U | 0.39 U | 0.35 U | 0.38 U |

**Table H-1**

**Soil Sample Summary Table**
**Main Terminal, Martin State Airport, Middle River, Maryland**


| LOCATION | MT-SS20 | | MT-SS21 | | MT-TCLP |
|---|---|---|---|---|---|
| SAMPLE ID | MT-SS20-0-2 | MT-SS20-8-10 | MT-SS21-0-2 | MT-SS21-8-10 | MT-TCLP-8-10 |
| SAMPLE DATE | 20120709 | 20120709 | 20120709 | 20120709 | 20120710 |
| SAMPLE CODE | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL |
| MATRIX | SO | SO | SO | SO | SO |
| SAMPLE TYPE | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL |
| SUBMATRIX | SS | SB | SS | SB | SB |
| TOP DEPTH | 0 | 8 | 0 | 8 | 8 |
| BOTTOM DEPTH | 2 | 10 | 2 | 10 | 10 |
| **METALS (MG/KG)** | | | | | |
| ANTIMONY | 0.66 B | 0.67 B | 0.36 UL | 0.47 B | NA |
| ARSENIC | 3.9 | 5 | 4.4 | 4.7 | NA |
| BARIUM | 19 J | 18 J | 16 J | 12 J | NA |
| BERYLLIUM | 2.9 | 4 | 3.8 | 5.8 | NA |
| CADMIUM | 0.035 U | 0.037 U | 0.033 U | 0.038 U | NA |
| CHROMIUM | 20 L | 24 L | 24 L | 21 L | NA |
| COBALT | 14 | 13 | 10 | 14 | NA |
| COPPER | 24 | 38 | 15 | 19 | NA |
| LEAD | 4.4 | 6.3 | 4.1 | 5.1 | NA |
| MERCURY | 0.017 U | 0.019 U | 0.019 U | 0.016 U | NA |
| MOLYBDENUM | 0.38 B | 0.58 B | 0.31 B | 0.34 B | NA |
| NICKEL | 45 J | 44 J | 34 J | 49 J | NA |
| SELENIUM | 0.44 UL | 0.47 UL | 0.42 UL | 0.48 UL | NA |
| SILVER | 0.098 UL | 0.1 UL | 0.093 UL | 0.11 UL | NA |
| THALLIUM | 0.54 UL | 0.57 UL | 0.51 UL | 0.58 UL | NA |
| VANADIUM | 31 L | 38 L | 36 L | 36 L | NA |
| ZINC | 69 | 73 | 49 | 78 | NA |
| **PCBS (UG/KG)** | | | | | |
| AROCLOR-1016 | 25 U | 26 U | 25 U | 25 U | NA |
| AROCLOR-1221 | 19 U | 20 U | 19 U | 19 U | NA |
| AROCLOR-1232 | 16 U | 17 U | 17 U | 16 U | NA |
| AROCLOR-1242 | 15 U | 16 U | 15 U | 15 U | NA |
| AROCLOR-1248 | 20 U | 21 U | 20 U | 20 U | NA |
| AROCLOR-1254 | 20 U | 21 U | 20 U | 20 U | NA |
| AROCLOR-1260 | 20 U | 21 U | 20 U | 20 U | NA |
| TOTAL AROCLOR | 0 U | 0 U | 0 U | 0 U | NA |
| TOTAL AROCLOR HALFND | 67.5 | 71 | 68 | 67.5 | NA |
| **PETROLEUM HYDROCARBONS (MG/KG)** | | | | | |
| TPH (C10-C32) | 11 U | 11 U | 11 U | 11 U | NA |
| **PETROLEUM HYDROCARBONS (UG/KG)** | | | | | |
| TPH (C06-C10) | 54 U | 56 U | 54 U | 54 U | NA |
| **SEMIVOLATILES (UG/KG)** | | | | | |

**Table H-1**

**Soil Sample Summary Table**
**Main Terminal, Martin State Airport, Middle River, Maryland**


| LOCATION | MT-SS20 | | MT-SS21 | | MT-TCLP |
|---|---|---|---|---|---|
| SAMPLE ID | MT-SS20-0-2 | MT-SS20-8-10 | MT-SS21-0-2 | MT-SS21-8-10 | MT-TCLP-8-10 |
| SAMPLE DATE | 20120709 | 20120709 | 20120709 | 20120709 | 20120710 |
| SAMPLE CODE | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL |
| MATRIX | SO | SO | SO | SO | SO |
| SAMPLE TYPE | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL |
| SUBMATRIX | SS | SB | SS | SB | SB |
| TOP DEPTH | 0 | 8 | 0 | 8 | 8 |
| BOTTOM DEPTH | 2 | 10 | 2 | 10 | 10 |
| 1,1-BIPHENYL | 32 U | 33 U | 32 U | 32 U | NA |
| 1,4-DIOXANE | 26 U | 27 U | 26 U | 26 U | NA |
| 2,2'-OXYBIS(1-CHLOROPROPANE) | 11 U | 12 U | 11 U | 11 U | NA |
| 2,4,5-TRICHLOROPHENOL | 29 U | 30 U | 29 U | 29 U | NA |
| 2,4,6-TRICHLOROPHENOL | 94 U | 97 U | 93 U | 94 U | NA |
| 2,4-DICHLOROPHENOL | 23 U | 24 U | 23 U | 24 U | NA |
| 2,4-DIMETHYLPHENOL | 23 U | 24 U | 23 U | 24 U | NA |
| 2,4-DINITROPHENOL | 94 U | 97 U | 93 U | 94 U | NA |
| 2,4-DINITROTOLUENE | 32 U | 33 U | 32 U | 32 U | NA |
| 2,6-DINITROTOLUENE | 25 U | 25 U | 25 U | 25 U | NA |
| 2-CHLORONAPHTHALENE | 3.9 U | 4 U | 3.9 U | 3.9 U | NA |
| 2-CHLOROPHENOL | 32 U | 33 U | 32 U | 32 U | NA |
| 2-METHYLNAPHTHALENE | 3.9 U | 4 U | 3.9 U | 3.9 U | NA |
| 2-METHYLPHENOL | 94 U | 97 U | 93 U | 94 U | NA |
| 2-NITROANILINE | 11 U | 11 U | 11 U | 11 U | NA |
| 2-NITROPHENOL | 32 U | 33 U | 32 U | 32 U | NA |
| 3&4-METHYLPHENOL | 23 U | 24 U | 23 U | 24 U | NA |
| 3,3'-DICHLOROBENZIDINE | 21 U | 22 U | 21 U | 21 U | NA |
| 3-NITROANILINE | 19 U | 19 U | 19 U | 19 U | NA |
| 4,6-DINITRO-2-METHYLPHENOL | 94 U | 97 U | 93 U | 94 U | NA |
| 4-BROMOPHENYL PHENYL ETHER | 15 U | 16 U | 15 U | 15 U | NA |
| 4-CHLORO-3-METHYLPHENOL | 25 U | 25 U | 25 U | 25 U | NA |
| 4-CHLOROANILINE | 20 U | 21 U | 20 U | 20 U | NA |
| 4-CHLOROPHENYL PHENYL ETHER | 15 U | 16 U | 15 U | 15 U | NA |
| 4-NITROANILINE | 30 U | 32 U | 30 U | 31 U | NA |
| 4-NITROPHENOL | 94 U | 97 U | 93 U | 94 U | NA |
| ACENAPHTHENE | 3.9 U | 4 U | 3.9 U | 3.9 U | NA |
| ACENAPHTHYLENE | 3.9 U | 4 U | 3.9 U | 3.9 U | NA |
| ACETOPHENONE | 11 U | 11 U | 11 U | 11 U | NA |
| ANTHRACENE | 3.9 U | 4 U | 3.9 U | 3.9 U | NA |
| ATRAZINE | 11 U | 11 U | 11 U | 11 U | NA |
| BAP EQUIVALENT-HALFND | 3.9 U | 21.683 | 8.2315 | 12.1729 | NA |
| BAP EQUIVALENT-POS | 3.9 U | 19.683 | 6.067 | 10.0084 | NA |

**Table H-1**

**Soil Sample Summary Table**
**Main Terminal, Martin State Airport, Middle River, Maryland**


| LOCATION | MT-SS20 | | MT-SS21 | | MT-TCLP |
|---|---|---|---|---|---|
| SAMPLE ID | MT-SS20-0-2 | MT-SS20-8-10 | MT-SS21-0-2 | MT-SS21-8-10 | MT-TCLP-8-10 |
| SAMPLE DATE | 20120709 | 20120709 | 20120709 | 20120709 | 20120710 |
| SAMPLE CODE | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL |
| MATRIX | SO | SO | SO | SO | SO |
| SAMPLE TYPE | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL |
| SUBMATRIX | SS | SB | SS | SB | SB |
| TOP DEPTH | 0 | 8 | 0 | 8 | 8 |
| BOTTOM DEPTH | 2 | 10 | 2 | 10 | 10 |
| BENZALDEHYDE | 14 U | 15 U | 14 U | 14 U | NA |
| BENZO(A)ANTHRACENE | 3.9 U | 11 | 6 J | 9.3 | NA |
| BENZO(A)PYRENE | 3.9 U | 16 | 4.9 J | 8.2 | NA |
| BENZO(B)FLUORANTHENE | 3.9 U | 15 | 5.6 J | 8.7 | NA |
| BENZO(G,H,I)PERYLENE | 3.9 U | 15 | 3.9 U | 5.4 J | NA |
| BENZO(K)FLUORANTHENE | 3.9 U | 7.2 J | 3.9 U | 3.9 U | NA |
| BIS(2-CHLOROETHOXY)METHANE | 26 U | 27 U | 26 U | 26 U | NA |
| BIS(2-CHLOROETHYL)ETHER | 2.3 U | 2.4 U | 2.3 U | 2.4 U | NA |
| BIS(2-ETHYLHEXYL)PHTHALATE | 34 B | 28 B | 24 B | 22 U | NA |
| BUTYL BENZYL PHTHALATE | 12 U | 12 U | 12 U | 12 U | NA |
| CAPROLACTAM | 43 U | 45 U | 43 U | 44 U | NA |
| CARBAZOLE | 32 U | 33 U | 32 U | 32 U | NA |
| CHRYSENE | 1.3 U | 11 | 7 J | 8.4 | NA |
| DIBENZO(A,H)ANTHRACENE | 3.9 U | 4 U | 3.9 U | 3.9 U | NA |
| DIBENZOFURAN | 3.9 U | 4 U | 3.9 U | 3.9 U | NA |
| DIETHYL PHTHALATE | 19 U | 19 U | 19 U | 19 U | NA |
| DIMETHYL PHTHALATE | 20 U | 21 U | 20 U | 20 U | NA |
| DI-N-BUTYL PHTHALATE | 24 J | 18 U | 18 U | 18 U | NA |
| DI-N-OCTYL PHTHALATE | 32 U | 33 U | 32 U | 32 U | NA |
| FLUORANTHENE | 5.7 J | 13 | 14 | 11 | NA |
| FLUORENE | 3.9 U | 4 U | 3.9 U | 3.9 U | NA |
| HEXACHLOROBENZENE | 2.5 U | 2.5 U | 2.5 U | 2.5 U | NA |
| HEXACHLOROBUTADIENE | 32 U | 33 U | 32 U | 32 U | NA |
| HEXACHLOROCYCLOPENTADIENE | 32 U | 33 U | 32 U | 32 U | NA |
| HEXACHLOROETHANE | 11 U | 11 U | 11 U | 11 U | NA |
| INDENO(1,2,3-CD)PYRENE | 3.9 U | 10 | 3.9 U | 3.9 U | NA |
| ISOPHORONE | 15 U | 16 U | 15 U | 15 U | NA |
| NAPHTHALENE | 3.9 U | 4 U | 3.9 U | 3.9 U | NA |
| NITROBENZENE | 2.6 U | 2.7 U | 2.6 U | 2.6 U | NA |
| N-NITROSODIMETHYLAMINE | 19 U | 19 U | 19 U | 19 U | NA |
| N-NITROSO-DI-N-PROPYLAMINE | 32 U | 33 U | 32 U | 32 U | NA |
| N-NITROSODIPHENYLAMINE | 25 U | 25 U | 25 U | 25 U | NA |
| PENTACHLOROPHENOL | 94 U | 97 U | 93 U | 94 U | NA |

**Table H-1**

**Soil Sample Summary Table**
**Main Terminal, Martin State Airport, Middle River, Maryland**


| LOCATION | MT-SS20 | | MT-SS21 | | MT-TCLP |
|---|---|---|---|---|---|
| SAMPLE ID | MT-SS20-0-2 | MT-SS20-8-10 | MT-SS21-0-2 | MT-SS21-8-10 | MT-TCLP-8-10 |
| SAMPLE DATE | 20120709 | 20120709 | 20120709 | 20120709 | 20120710 |
| SAMPLE CODE | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL |
| MATRIX | SO | SO | SO | SO | SO |
| SAMPLE TYPE | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL |
| SUBMATRIX | SS | SB | SS | SB | SB |
| TOP DEPTH | 0 | 8 | 0 | 8 | 8 |
| BOTTOM DEPTH | 2 | 10 | 2 | 10 | 10 |
| PHENANTHRENE | 3.9 U | 9.4 | 11 | 6.9 J | NA |
| PHENOL | 32 U | 33 U | 32 U | 32 U | NA |
| PYRENE | 4.8 J | 19 | 14 | 18 | NA |
| **TCLP HERBICIDES (MG/L)** | | | | | |
| 2,4,5-TP (SILVEX) | NA | NA | NA | NA | 0.0001 U |
| 2,4-D | NA | NA | NA | NA | 0.00021 U |
| **TCLP METALS (MG/L)** | | | | | |
| ARSENIC | NA | NA | NA | NA | 0.0032 U |
| BARIUM | NA | NA | NA | NA | 0.17 J |
| CADMIUM | NA | NA | NA | NA | 0.0013 J |
| CHROMIUM | NA | NA | NA | NA | 0.0047 J |
| LEAD | NA | NA | NA | NA | 0.05 J |
| MERCURY | NA | NA | NA | NA | 0.00012 U |
| SELENIUM | NA | NA | NA | NA | 0.0041 UL |
| SILVER | NA | NA | NA | NA | 0.0022 U |
| **TCLP PESTICIDE/PCBS (MG/L)** | | | | | |
| CHLORDANE | NA | NA | NA | NA | 0.00007 U |
| ENDRIN | NA | NA | NA | NA | 0.00002 UJ |
| GAMMA-BHC (LINDANE) | NA | NA | NA | NA | 0.00001 U |
| HEPTACHLOR | NA | NA | NA | NA | 0.00001 UJ |
| HEPTACHLOR EPOXIDE | NA | NA | NA | NA | 0.00001 U |
| METHOXYCHLOR | NA | NA | NA | NA | 0.00007 U |
| TOXAPHENE | NA | NA | NA | NA | 0.00077 U |
| **TCLP SEMIVOLATILES (MG/L)** | | | | | |
| 1,4-DICHLOROBENZENE | NA | NA | NA | NA | 0.00034 U |
| 2,4,5-TRICHLOROPHENOL | NA | NA | NA | NA | 0.0003 U |
| 2,4,6-TRICHLOROPHENOL | NA | NA | NA | NA | 0.0008 U |
| 2,4-DINITROTOLUENE | NA | NA | NA | NA | 0.00027 U |
| 2-METHYLPHENOL | NA | NA | NA | NA | 0.0008 U |
| 3&4-METHYLPHENOL | NA | NA | NA | NA | 0.00075 U |
| HEXACHLOROBENZENE | NA | NA | NA | NA | 0.0001 U |
| HEXACHLOROBUTADIENE | NA | NA | NA | NA | 0.00027 U |
| HEXACHLOROETHANE | NA | NA | NA | NA | 0.0008 U |

**Table H-1**

**Soil Sample Summary Table**
**Main Terminal, Martin State Airport, Middle River, Maryland**


| LOCATION | MT-SS20 | | MT-SS21 | | MT-TCLP |
|---|---|---|---|---|---|
| SAMPLE ID | MT-SS20-0-2 | MT-SS20-8-10 | MT-SS21-0-2 | MT-SS21-8-10 | MT-TCLP-8-10 |
| SAMPLE DATE | 20120709 | 20120709 | 20120709 | 20120709 | 20120710 |
| SAMPLE CODE | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL |
| MATRIX | SO | SO | SO | SO | SO |
| SAMPLE TYPE | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL |
| SUBMATRIX | SS | SB | SS | SB | SB |
| TOP DEPTH | 0 | 8 | 0 | 8 | 8 |
| BOTTOM DEPTH | 2 | 10 | 2 | 10 | 10 |
| NITROBENZENE | NA | NA | NA | NA | 0.00004 U |
| PENTACHLOROPHENOL | NA | NA | NA | NA | 0.0024 U |
| PYRIDINE | NA | NA | NA | NA | 0.00035 U |
| **TCLP VOLATILES (MG/L)** | | | | | |
| 1,1-DICHLOROETHENE | NA | NA | NA | NA | 0.0095 U |
| 1,2-DICHLOROETHANE | NA | NA | NA | NA | 0.011 U |
| 2-BUTANONE | NA | NA | NA | NA | 0.029 UR |
| BENZENE | NA | NA | NA | NA | 0.0065 U |
| CARBON TETRACHLORIDE | NA | NA | NA | NA | 0.0065 U |
| CHLOROBENZENE | NA | NA | NA | NA | 0.0075 U |
| CHLOROFORM | NA | NA | NA | NA | 0.008 U |
| TETRACHLOROETHENE | NA | NA | NA | NA | 0.015 U |
| TRICHLOROETHENE | NA | NA | NA | NA | 0.0085 U |
| VINYL CHLORIDE | NA | NA | NA | NA | 0.011 U |
| **VOLATILES (UG/KG)** | | | | | |
| 1,1,1,2-TETRACHLOROETHANE | 0.54 U | 0.56 U | 0.51 U | 0.61 U | NA |
| 1,1,1-TRICHLOROETHANE | 0.49 U | 0.51 U | 0.46 U | 0.55 U | NA |
| 1,1,2,2-TETRACHLOROETHANE | 0.3 U | 0.31 U | 0.28 U | 0.34 U | NA |
| 1,1,2-TRICHLOROTRIFLUOROETHANE | 1.1 U | 1.2 U | 1.1 U | 1.3 U | NA |
| 1,1,3-TRIMETHYLCYCLOHEXANE | NA | NA | NA | NA | NA |
| 1,1-DICHLOROETHANE | 0.32 U | 0.33 U | 0.29 U | 0.36 U | NA |
| 1,1-DICHLOROETHENE | 0.46 U | 0.47 U | 0.43 U | 0.51 U | NA |
| 1,1-DICHLOROPROPENE | 0.26 U | 0.27 U | 0.25 U | 0.3 U | NA |
| 1,2,3-TRICHLOROBENZENE | 0.33 U | 0.35 U | 0.31 U | 0.38 U | NA |
| 1,2,3-TRICHLOROPROPANE | 0.79 U | 0.82 U | 0.74 U | 0.89 U | NA |
| 1,2,3-TRIMETHYLBENZENE | 0.15 U | 0.15 U | 0.14 U | 0.17 U | NA |
| 1,2,4-TRICHLOROBENZENE | 0.24 U | 0.25 U | 0.22 U | 0.27 U | NA |
| 1,2,4-TRIMETHYLBENZENE | 0.57 U | 0.59 U | 0.53 U | 0.64 U | NA |
| 1,2-DIBROMO-3-CHLOROPROPANE | 1.1 U | 1.2 U | 1.1 U | 1.3 U | NA |
| 1,2-DIBROMOETHANE | 0.44 U | 0.45 U | 0.41 U | 0.49 U | NA |
| 1,2-DICHLOROBENZENE | 0.32 U | 0.33 U | 0.29 U | 0.36 U | NA |
| 1,2-DICHLOROETHANE | 0.3 U | 0.31 U | 0.28 U | 0.34 U | NA |
| 1,2-DICHLOROPROPANE | 0.6 U | 0.63 U | 0.56 U | 0.68 U | NA |

**Table H-1**

**Soil Sample Summary Table**
**Main Terminal, Martin State Airport, Middle River, Maryland**


| LOCATION | MT-SS20 | | MT-SS21 | | MT-TCLP |
|---|---|---|---|---|---|
| SAMPLE ID | MT-SS20-0-2 | MT-SS20-8-10 | MT-SS21-0-2 | MT-SS21-8-10 | MT-TCLP-8-10 |
| SAMPLE DATE | 20120709 | 20120709 | 20120709 | 20120709 | 20120710 |
| SAMPLE CODE | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL |
| MATRIX | SO | SO | SO | SO | SO |
| SAMPLE TYPE | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL |
| SUBMATRIX | SS | SB | SS | SB | SB |
| TOP DEPTH | 0 | 8 | 0 | 8 | 8 |
| BOTTOM DEPTH | 2 | 10 | 2 | 10 | 10 |
| 1,3,5-TRIMETHYLBENZENE | NA | NA | NA | NA | NA |
| 1,3-DICHLOROBENZENE | 0.31 U | 0.32 U | 0.29 U | 0.35 U | NA |
| 1,3-DICHLOROPROPANE | 0.3 U | 0.31 U | 0.28 U | 0.34 U | NA |
| 1,4-DICHLOROBENZENE | 0.58 U | 0.6 U | 0.54 U | 0.65 U | NA |
| 2,2-DICHLOROPROPANE | 0.82 U | 0.85 U | 0.77 U | 0.93 U | NA |
| 2,3,3-TRIMETHYLPENTANE | NA | NA | NA | NA | NA |
| 2,3,4-TRIMETHYLPENTANE | NA | NA | NA | NA | NA |
| 2,3-DIMETHYLPENTANE | NA | NA | NA | NA | NA |
| 2,4-DIMETHYLPENTANE | NA | NA | NA | NA | NA |
| 2-BUTANONE | 1.2 U | 1.3 U | 1.1 U | 1.4 U | NA |
| 2-CHLOROETHYL VINYL ETHER | 1.2 UR | 1.3 UR | 1.1 UR | 1.4 UR | NA |
| 2-CHLOROTOLUENE | 0.35 U | 0.36 U | 0.33 U | 0.4 U | NA |
| 2-HEXANONE | 0.55 U | 0.57 U | 0.52 U | 0.62 U | NA |
| 2-METHYLBUTANE | NA | NA | NA | NA | NA |
| 3-METHYLPENTANE | NA | NA | NA | NA | NA |
| 4-CHLOROTOLUENE | 0.36 U | 0.37 U | 0.34 U | 0.41 U | NA |
| 4-ISOPROPYLTOLUENE | 0.18 U | 0.19 U | 0.17 U | 0.21 U | NA |
| 4-METHYL-2-PENTANONE | 0.47 U | 0.49 U | 0.44 U | 0.53 U | NA |
| ACETONE | 5.5 U | 5.7 U | 5.2 U | 6.2 U | NA |
| BENZENE | 0.2 U | 0.21 U | 0.19 U | 0.23 U | NA |
| BENZENE, 1-ETHYL-2,3-DIMETHYL- | NA | NA | NA | NA | NA |
| BENZENE, 1-METHYL-2-(1-METHYLETHYL)- | NA | NA | NA | NA | NA |
| BENZENE, 1-METHYL-4-(1-METHYLETHYL)- | NA | NA | NA | NA | NA |
| BROMOBENZENE | 0.29 U | 0.3 U | 0.27 U | 0.33 U | NA |
| BROMOCHLOROMETHANE | 0.62 U | 0.64 U | 0.58 U | 0.7 U | NA |
| BROMODICHLOROMETHANE | 0.25 U | 0.25 U | 0.23 U | 0.28 U | NA |
| BROMOFORM | 0.29 U | 0.3 U | 0.27 U | 0.33 U | NA |
| BROMOMETHANE | 0.47 U | 0.49 U | 0.44 U | 0.53 U | NA |
| BUTANE, 2,2,3,3-TETRAMETHYL- | NA | NA | NA | NA | NA |
| CARBON DISULFIDE | 0.39 U | 0.4 U | 0.36 U | 0.43 U | NA |
| CARBON TETRACHLORIDE | 0.32 U | 0.34 U | 0.3 U | 4.4 J | NA |
| CHLOROBENZENE | 0.29 U | 0.3 U | 0.27 U | 0.33 U | NA |
| CHLORODIBROMOMETHANE | 0.48 U | 0.5 U | 0.45 U | 0.54 U | NA |

**Table H-1**

**Soil Sample Summary Table**
**Main Terminal, Martin State Airport, Middle River, Maryland**


| LOCATION | MT-SS20 | | MT-SS21 | | MT-TCLP |
|---|---|---|---|---|---|
| SAMPLE ID | MT-SS20-0-2 | MT-SS20-8-10 | MT-SS21-0-2 | MT-SS21-8-10 | MT-TCLP-8-10 |
| SAMPLE DATE | 20120709 | 20120709 | 20120709 | 20120709 | 20120710 |
| SAMPLE CODE | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL |
| MATRIX | SO | SO | SO | SO | SO |
| SAMPLE TYPE | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL |
| SUBMATRIX | SS | SB | SS | SB | SB |
| TOP DEPTH | 0 | 8 | 0 | 8 | 8 |
| BOTTOM DEPTH | 2 | 10 | 2 | 10 | 10 |
| CHLOROETHANE | 0.75 U | 0.78 U | 0.7 U | 0.85 U | NA |
| CHLOROFORM | 0.25 U | 0.26 U | 0.24 U | 0.29 U | NA |
| CHLOROMETHANE | 0.36 U | 0.37 U | 0.34 U | 0.41 U | NA |
| CIS-1,2-DICHLOROETHENE | 0.32 U | 0.33 U | 0.29 U | 0.36 U | NA |
| CIS-1,3-DICHLOROPROPENE | 0.3 U | 0.31 U | 0.28 U | 0.34 U | NA |
| CYCLOHEXANE | NA | NA | NA | NA | NA |
| CYCLOTETRASILOXANE, OCTAMETHYL- | 16 R | 7.6 R | 12 R | 7.4 R | NA |
| DIBROMOMETHANE | 0.55 U | 0.57 U | 0.52 U | 0.62 U | NA |
| DICHLORODIFLUOROMETHANE | 0.44 U | 0.45 U | 0.41 U | 0.49 U | NA |
| DIISOPROPYL ETHER | 1.3 U | 1.4 U | 1.2 U | 1.5 U | NA |
| ETHYL TERT-BUTYL ETHER | 0.19 U | 0.2 U | 0.18 U | 0.22 U | NA |
| ETHYLBENZENE | 0.23 U | 0.24 U | 0.21 U | 0.26 U | NA |
| HEXACHLOROBUTADIENE | 1.1 U | 1.1 U | 0.98 U | 1.2 U | NA |
| HEXANE | 1.7 J | 1.6 J | 2.1 J | 1.6 J | NA |
| HEXANE, 2,2,4-TRIMETHYL- | NA | NA | NA | NA | NA |
| ISOPROPYLBENZENE | 0.14 U | 0.15 U | 0.13 U | 0.16 U | NA |
| M+P-XYLENES | 1.1 U | 1.1 U | 0.98 U | 1.2 U | NA |
| METHYL CYCLOHEXANE | NA | NA | NA | NA | NA |
| METHYL TERT-BUTYL ETHER | 0.38 U | 0.39 U | 0.35 U | 0.42 U | NA |
| METHYLENE CHLORIDE | 1.7 B | 0.78 B | 1 B | 0.66 B | NA |
| NAPHTHALENE | 0.24 B | 0.17 U | 0.16 U | 0.19 U | NA |
| N-BUTYLBENZENE | 0.2 U | 0.21 U | 0.19 U | 0.23 U | NA |
| N-PROPYLBENZENE | 0.35 U | 0.36 U | 0.33 U | 0.4 U | NA |
| O-XYLENE | 0.31 U | 0.32 U | 0.29 U | 0.35 U | NA |
| SEC-BUTYLBENZENE | 0.16 U | 0.16 U | 0.15 U | 0.18 U | NA |
| STYRENE | 0.13 U | 0.14 U | 0.12 U | 0.15 U | NA |
| TERT-AMYL METHYL ETHER | 0.32 U | 0.34 U | 0.3 U | 0.37 U | NA |
| TERT-BUTYLBENZENE | 0.25 U | 0.26 U | 0.24 U | 0.29 U | NA |
| TERTIARY-BUTYL ALCOHOL | 6.7 UR | 6.9 UR | 6.2 UR | 7.5 UR | NA |
| TETRACHLOROETHENE | 0.46 U | 0.47 U | 0.43 U | 0.51 U | NA |
| TETRAHYDROFURAN | NA | NA | NA | NA | NA |
| TOLUENE | 0.24 U | 0.25 U | 0.22 U | 0.27 U | NA |
| TOTAL XYLENES | 0.59 U | 0.61 U | 0.55 U | 0.66 U | NA |

**Table H-1**

**Soil Sample Summary Table**
**Main Terminal, Martin State Airport, Middle River, Maryland**


| LOCATION | MT-SS20 | | MT-SS21 | | MT-TCLP |
|---|---|---|---|---|---|
| SAMPLE ID | MT-SS20-0-2 | MT-SS20-8-10 | MT-SS21-0-2 | MT-SS21-8-10 | MT-TCLP-8-10 |
| SAMPLE DATE | 20120709 | 20120709 | 20120709 | 20120709 | 20120710 |
| SAMPLE CODE | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL |
| MATRIX | SO | SO | SO | SO | SO |
| SAMPLE TYPE | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL |
| SUBMATRIX | SS | SB | SS | SB | SB |
| TOP DEPTH | 0 | 8 | 0 | 8 | 8 |
| BOTTOM DEPTH | 2 | 10 | 2 | 10 | 10 |
| TRANS-1,2-DICHLOROETHENE | 0.36 U | 0.37 U | 0.34 U | 0.41 U | NA |
| TRANS-1,3-DICHLOROPROPENE | 0.47 U | 0.49 U | 0.44 U | 0.53 U | NA |
| TRICHLOROETHENE | 0.37 U | 0.38 U | 0.34 U | 110 | NA |
| TRICHLOROFLUOROMETHANE | 0.3 U | 0.31 U | 0.28 U | 0.34 U | NA |
| UNKNOWN | NA | NA | NA | NA | NA |
| VINYL ACETATE | 0.22 UR | 0.23 UR | 0.2 UR | 0.25 UR | NA |
| VINYL CHLORIDE | 0.34 U | 0.35 U | 0.32 U | 0.39 U | NA |

B - qualified due to blank contamination. R - rejected positive result. UR - nondetected rejected.
J - estimated positive value. U - nondetected value.
L - positive value biased low. UJ - estimated nondetected value.
NJ - estimated postive TIC result. UL - nondetected value biased low.

**Table H-2**

**Groundwater Summary Table**
**Main Terminal, Martin State Airport, Middle River, Maryland**


| SAMPLE ID: | MT-MW01S-042512 | MT-MW02S-043012 | MT-MW03S-042512 | MT-MW04S-042412 |
|---|---|---|---|---|
| SAMPLE DATE: | 20120425 | 20120430 | 20120425 | 20120424 |
| LOCATION: | MT-MW01S | MT-MW02S | MT-MW03S | MT-MW04S |
| **VOLATILES (UG/L)** | | | | |
| 1,1,1,2-TETRACHLOROETHANE | 0.23 U | 1.2 U | 0.23 U | 0.23 U |
| 1,1,1-TRICHLOROETHANE | 0.22 U | 1.1 U | 0.22 U | 0.22 U |
| 1,1,2,2-TETRACHLOROETHANE | 0.18 U | 0.9 U | 0.18 U | 0.18 U |
| 1,1,2-TRICHLOROTRIFLUOROETHANE | 0.28 U | 1.4 U | 0.28 U | 0.28 U |
| 1,1-DICHLOROETHANE | 0.15 U | 0.75 U | 0.15 U | 0.15 U |
| 1,1-DICHLOROETHENE | 0.19 U | 0.95 U | 0.19 U | 0.19 U |
| 1,1-DICHLOROPROPENE | 0.13 U | 0.65 U | 0.13 U | 0.13 U |
| 1,2,3-TRICHLOROBENZENE | 0.17 U | 0.85 U | 0.17 U | 0.17 U |
| 1,2,3-TRICHLOROPROPANE | 0.43 U | 2.2 U | 0.43 U | 0.43 U |
| 1,2,3-TRIMETHYLBENZENE | 0.0059 U | 2.4 J | 0.0059 U | 0.0059 U |
| 1,2,4-TRICHLOROBENZENE | 0.15 U | 0.75 U | 0.15 U | 0.15 U |
| 1,2,4-TRIMETHYLBENZENE | 0.12 U | 9.2 | 0.12 U | 0.12 U |
| 1,2-DIBROMO-3-CHLOROPROPANE | 0.67 U | 3.4 U | 0.67 U | 0.67 U |
| 1,2-DIBROMOETHANE | 0.24 U | 1.2 U | 0.24 U | 0.24 U |
| 1,2-DICHLOROBENZENE | 0.13 U | 0.65 U | 0.13 U | 0.13 U |
| 1,2-DICHLOROETHANE | 0.22 U | 3.8 J | 0.22 U | 0.22 U |
| 1,2-DICHLOROPROPANE | 0.18 U | 0.9 U | 0.18 U | 0.18 U |
| 1,3-DICHLOROBENZENE | 0.14 U | 0.7 U | 0.14 U | 0.14 U |
| 1,3-DICHLOROPROPANE | 0.16 U | 0.8 U | 0.16 U | 0.16 U |
| 1,4-DICHLOROBENZENE | 0.13 U | 0.65 U | 0.13 U | 0.13 U |
| 2,2-DICHLOROPROPANE | 0.13 U | 0.65 U | 0.13 U | 0.13 U |
| 2-BUTANONE | 0.57 U | 2.9 U | 0.57 U | 0.57 U |
| 2-CHLOROETHYL VINYL ETHER | 0.99 U | 5 U | 0.99 U | 0.99 U |
| 2-CHLOROTOLUENE | 0.11 U | 0.55 U | 0.11 U | 0.11 U |
| 2-HEXANONE | 0.41 U | 2.1 U | 0.41 U | 0.41 U |
| 4-CHLOROTOLUENE | 0.18 U | 0.9 U | 0.18 U | 0.18 U |
| 4-ISOPROPYLTOLUENE | 0.12 U | 1.6 J | 0.12 U | 0.12 U |
| 4-METHYL-2-PENTANONE | 0.32 U | 2.5 J | 0.32 U | 0.32 U |
| ACETONE | 1.1 U | 90 | 1.1 U | 1.1 U |
| BENZENE | 0.13 J | 87 | 0.13 U | 0.13 U |
| BROMOBENZENE | 0.13 U | 0.65 U | 0.13 U | 0.13 U |
| BROMOCHLOROMETHANE | 0.29 U | 1.5 U | 0.29 U | 0.29 U |
| BROMODICHLOROMETHANE | 0.15 U | 0.75 U | 0.15 U | 0.15 U |
| BROMOFORM | 0.64 U | 3.2 U | 0.64 U | 0.64 U |
| BROMOMETHANE | 0.41 U | 2.1 U | 0.41 U | 0.41 U |
| CARBON DISULFIDE | 0.13 U | 0.65 U | 0.51 J | 0.13 U |
| CARBON TETRACHLORIDE | 0.13 U | 0.65 U | 0.13 U | 0.13 U |

**Table H-2**

**Groundwater Summary Table**
**Main Terminal, Martin State Airport, Middle River, Maryland**


| SAMPLE ID: | MT-MW01S-042512 | MT-MW02S-043012 | MT-MW03S-042512 | MT-MW04S-042412 |
|---|---|---|---|---|
| SAMPLE DATE: | 20120425 | 20120430 | 20120425 | 20120424 |
| LOCATION: | MT-MW01S | MT-MW02S | MT-MW03S | MT-MW04S |
| CHLOROBENZENE | 0.15 U | 0.75 U | 0.15 U | 0.15 U |
| CHLORODIBROMOMETHANE | 0.18 U | 0.9 U | 0.18 U | 0.18 U |
| CHLOROETHANE | 0.29 U | 1.5 U | 0.29 U | 0.29 U |
| CHLOROFORM | 0.16 U | 0.8 U | 0.16 U | 0.62 J |
| CHLOROMETHANE | 0.3 U | 1.5 U | 0.3 U | 0.3 U |
| CIS-1,2-DICHLOROETHENE | 0.17 U | 4.8 J | 0.17 U | 0.17 U |
| CIS-1,3-DICHLOROPROPENE | 0.14 U | 0.7 U | 0.14 U | 0.14 U |
| DIBROMOMETHANE | 0.28 U | 1.4 U | 0.28 U | 0.28 U |
| DICHLORODIFLUOROMETHANE | 0.31 U | 1.6 U | 0.31 U | 0.31 U |
| DIISOPROPYL ETHER | 1.5 U | 7.5 U | 1.5 U | 1.5 U |
| ETHYL TERT-BUTYL ETHER | 0.11 U | 0.55 U | 0.11 U | 0.11 U |
| ETHYL TERT-BUTYL ETHER | NA | NA | NA | NA |
| ETHYLBENZENE | 0.17 U | 180 | 0.17 U | 0.17 U |
| HEXACHLOROBUTADIENE | 0.3 U | 1.5 U | 0.3 U | 0.3 U |
| ISOPROPYLBENZENE | 0.13 U | 31 | 0.13 U | 0.13 U |
| M+P-XYLENES | 0.24 U | 50 | 0.24 U | 0.24 U |
| METHYL TERT-BUTYL ETHER | 0.17 U | 0.85 U | 0.17 U | 0.17 U |
| METHYLENE CHLORIDE | 0.33 U | 1.7 U | 0.33 U | 0.33 U |
| NAPHTHALENE | 0.24 U | 1.2 U | 0.24 U | 0.24 U |
| N-BUTYLBENZENE | 0.12 U | 0.6 U | 0.12 U | 0.12 U |
| N-PROPYLBENZENE | 0.14 U | 9.7 | 0.14 U | 0.14 U |
| O-XYLENE | 0.14 U | 22 | 0.14 U | 0.14 U |
| SEC-BUTYLBENZENE | 0.13 U | 0.75 J | 0.13 U | 0.13 U |
| STYRENE | 0.11 U | 0.55 U | 0.11 U | 0.11 U |
| TERT-AMYL METHYL ETHER | 0.067 U | 0.34 U | 0.067 U | 0.067 U |
| TERT-AMYL METHYL ETHER | NA | NA | NA | NA |
| TERT-BUTYLBENZENE | 0.13 U | 0.65 U | 0.13 U | 0.13 U |
| TERTIARY-BUTYL ALCOHOL | 3.9 UR | 20 UR | 3.9 UR | 3.9 UR |
| TETRACHLOROETHENE | 0.29 U | 1.5 U | 0.29 U | 0.29 U |
| TOLUENE | 0.29 J | 0.65 U | 0.13 U | 0.13 U |
| TOTAL XYLENES | 0.28 U | 72 | 0.28 U | 0.28 U |
| TRANS-1,2-DICHLOROETHENE | 0.19 U | 0.95 U | 0.19 U | 0.19 U |
| TRANS-1,3-DICHLOROPROPENE | 0.19 U | 0.95 U | 0.19 U | 0.19 U |
| TRICHLOROETHENE | 0.17 U | 0.85 U | 0.17 U | 0.17 U |
| TRICHLOROFLUOROMETHANE | 0.21 U | 1.1 U | 0.21 U | 0.21 U |
| VINYL ACETATE | 0.19 UR | 0.95 UR | 0.19 UR | 0.19 UR |
| VINYL CHLORIDE | 0.22 U | 1.1 U | 0.22 U | 0.22 U |

**Table H-2**

**Groundwater Summary Table**
**Main Terminal, Martin State Airport, Middle River, Maryland**


| SAMPLE ID: | MT-MW01S-042512 | MT-MW02S-043012 | MT-MW03S-042512 | MT-MW04S-042412 |
|---|---|---|---|---|
| SAMPLE DATE: | 20120425 | 20120430 | 20120425 | 20120424 |
| LOCATION: | MT-MW01S | MT-MW02S | MT-MW03S | MT-MW04S |
| **TIC VOLATILES (UG/L)** | | | | |
| 1,3,5-TRIMETHYLBENZENE | NA | 47 | NA | NA |
| 1-ETHYL-2-METHYL BENZENE | NA | 7.3 NJ | NA | NA |
| 2,4-PENTANEDIONE, 3-METHYL- | NA | 7.8 NJ | NA | NA |
| 3-PENTANOL, 2,2-DIMETHYL- | NA | 6.5 NJ | NA | NA |
| 3-PENTANONE, 2,4-DIMETHYL- | NA | 12 NJ | NA | NA |
| BENZENE, 1-ETHYL-3-METHYL- | NA | 10 NJ | NA | NA |
| BUTANE | 1.4 NJ | NA | NA | NA |
| BUTANE, 2-METHYL- | NA | NA | NA | NA |
| CYCLOBUTANE, METHYL- | NA | 9.8 NJ | NA | NA |
| CYCLOHEXANE | NA | 45 | NA | NA |
| INDANE | NA | 8.1 NJ | NA | NA |
| METHYL CYCLOHEXANE | NA | NA | NA | 0.13 B |
| METHYLCYCLOPENTANE | NA | 19 NJ | NA | NA |
| SILANE, FLUOROTRIMETHYL- | NA | NA | 2.8 R | NA |
| **SEMIVOLATILES (UG/L)** | | | | |
| 1,1-BIPHENYL | NA | NA | NA | NA |
| 1,4-DIOXANE | 0.49 U | 0.49 U | 0.51 U | 0.49 U |
| 2,2'-OXYBIS(1-CHLOROPROPANE) | NA | NA | NA | NA |
| 2,4,5-TRICHLOROPHENOL | NA | NA | NA | NA |
| 2,4,6-TRICHLOROPHENOL | NA | NA | NA | NA |
| 2,4-DICHLOROPHENOL | NA | NA | NA | NA |
| 2,4-DIMETHYLPHENOL | NA | NA | NA | NA |
| 2,4-DINITROPHENOL | NA | NA | NA | NA |
| 2,4-DINITROTOLUENE | NA | NA | NA | NA |
| 2,6-DINITROTOLUENE | NA | NA | NA | NA |
| 2-CHLORONAPHTHALENE | NA | NA | NA | NA |
| 2-CHLOROPHENOL | NA | NA | NA | NA |
| 2-METHYLNAPHTHALENE | NA | NA | NA | NA |
| 2-METHYLPHENOL | NA | NA | NA | NA |
| 2-NITROANILINE | NA | NA | NA | NA |
| 2-NITROPHENOL | NA | NA | NA | NA |
| 3&4-METHYLPHENOL | NA | NA | NA | NA |
| 3,3'-DICHLOROBENZIDINE | NA | NA | NA | NA |
| 3-NITROANILINE | NA | NA | NA | NA |
| 4,6-DINITRO-2-METHYLPHENOL | NA | NA | NA | NA |
| 4-BROMOPHENYL PHENYL ETHER | NA | NA | NA | NA |
| 4-CHLORO-3-METHYLPHENOL | NA | NA | NA | NA |

**Table H-2**

**Groundwater Summary Table**
**Main Terminal, Martin State Airport, Middle River, Maryland**


| SAMPLE ID: | MT-MW01S-042512 | MT-MW02S-043012 | MT-MW03S-042512 | MT-MW04S-042412 |
|---|---|---|---|---|
| SAMPLE DATE: | 20120425 | 20120430 | 20120425 | 20120424 |
| LOCATION: | MT-MW01S | MT-MW02S | MT-MW03S | MT-MW04S |
| 4-CHLOROANILINE | NA | NA | NA | NA |
| 4-CHLOROPHENYL PHENYL ETHER | NA | NA | NA | NA |
| 4-NITROANILINE | NA | NA | NA | NA |
| 4-NITROPHENOL | NA | NA | NA | NA |
| ACENAPHTHENE | NA | NA | NA | NA |
| ACENAPHTHYLENE | NA | NA | NA | NA |
| ACETOPHENONE | NA | NA | NA | NA |
| ANTHRACENE | NA | NA | NA | NA |
| ATRAZINE | NA | NA | NA | NA |
| BAP EQUIVALENT-HALFND | NA | NA | NA | NA |
| BAP EQUIVALENT-POS | NA | NA | NA | NA |
| BENZALDEHYDE | NA | NA | NA | NA |
| BENZO(A)ANTHRACENE | NA | NA | NA | NA |
| BENZO(A)PYRENE | NA | NA | NA | NA |
| BENZO(B)FLUORANTHENE | NA | NA | NA | NA |
| BENZO(G,H,I)PERYLENE | NA | NA | NA | NA |
| BENZO(K)FLUORANTHENE | NA | NA | NA | NA |
| BIS(2-CHLOROETHOXY)METHANE | NA | NA | NA | NA |
| BIS(2-CHLOROETHYL)ETHER | NA | NA | NA | NA |
| BIS(2-ETHYLHEXYL)PHTHALATE | NA | NA | NA | NA |
| BUTYL BENZYL PHTHALATE | NA | NA | NA | NA |
| CAPROLACTAM | NA | NA | NA | NA |
| CARBAZOLE | NA | NA | NA | NA |
| CHRYSENE | NA | NA | NA | NA |
| DIBENZO(A,H)ANTHRACENE | NA | NA | NA | NA |
| DIBENZOFURAN | NA | NA | NA | NA |
| DIETHYL PHTHALATE | NA | NA | NA | NA |
| DIMETHYL PHTHALATE | NA | NA | NA | NA |
| DI-N-BUTYL PHTHALATE | NA | NA | NA | NA |
| DI-N-OCTYL PHTHALATE | NA | NA | NA | NA |
| FLUORANTHENE | NA | NA | NA | NA |
| FLUORENE | NA | NA | NA | NA |
| HEXACHLOROBENZENE | NA | NA | NA | NA |
| HEXACHLOROBUTADIENE | NA | NA | NA | NA |
| HEXACHLOROCYCLOPENTADIENE | NA | NA | NA | NA |
| HEXACHLOROETHANE | NA | NA | NA | NA |
| INDENO(1,2,3-CD)PYRENE | NA | NA | NA | NA |
| ISOPHORONE | NA | NA | NA | NA |

**Table H-2**

**Groundwater Summary Table**
**Main Terminal, Martin State Airport, Middle River, Maryland**


| SAMPLE ID: | MT-MW01S-042512 | MT-MW02S-043012 | MT-MW03S-042512 | MT-MW04S-042412 |
|---|---|---|---|---|
| SAMPLE DATE: | 20120425 | 20120430 | 20120425 | 20120424 |
| LOCATION: | MT-MW01S | MT-MW02S | MT-MW03S | MT-MW04S |
| NAPHTHALENE | NA | NA | NA | NA |
| NITROBENZENE | NA | NA | NA | NA |
| N-NITROSODIMETHYLAMINE | NA | NA | NA | NA |
| N-NITROSO-DI-N-PROPYLAMINE | NA | NA | NA | NA |
| N-NITROSODIPHENYLAMINE | NA | NA | NA | NA |
| PENTACHLOROPHENOL | NA | NA | NA | NA |
| PHENANTHRENE | NA | NA | NA | NA |
| PHENOL | NA | NA | NA | NA |
| PYRENE | NA | NA | NA | NA |
| **METALS (UG/L)** | | | | |
| ANTIMONY | 0.13 U | 0.13 U | 0.21 J | 0.13 U |
| ARSENIC | 4.7 J | 2.3 J | 1.9 J | 0.71 J |
| BARIUM | 110 | 120 | 26 | 76 |
| BERYLLIUM | 0.59 J | 0.74 J | 0.41 J | 3.3 |
| CADMIUM | 0.13 U | 0.13 U | 0.13 U | 0.14 J |
| CHROMIUM | 0.71 U | 0.71 U | 5.3 | 0.71 U |
| COBALT | 140 | 30 | 2.3 | 210 |
| COPPER | 0.6 B | 1.4 B | 7.3 | 43 |
| LEAD | 0.26 B | 1.3 K | 2.6 | 0.71 B |
| MERCURY | 0.12 U | 0.12 U | 0.12 U | 0.12 U |
| MOLYBDENUM | 0.57 B | 0.093 U | 1.7 B | 0.093 U |
| NICKEL | 67 | 48 | 5.9 | 330 |
| SELENIUM | 0.57 U | 0.57 U | 0.57 U | 0.57 U |
| SILVER | 0.08 U | 0.08 U | 0.13 B | 0.08 U |
| THALLIUM | 0.14 U | 0.15 B | 0.14 U | 0.16 B |
| TUNGSTEN | 0.37 U | 0.37 U | 0.37 U | 0.37 U |
| VANADIUM | 0.94 J | 0.44 U | 6 J | 0.44 U |
| ZINC | 12 B | 100 | 640 | 340 |

**Table H-2**

**Groundwater Summary Table**
**Main Terminal, Martin State Airport, Middle River, Maryland**


| SAMPLE ID: | MT-MW01S-042512 | MT-MW02S-043012 | MT-MW03S-042512 | MT-MW04S-042412 |
|---|---|---|---|---|
| SAMPLE DATE: | 20120425 | 20120430 | 20120425 | 20120424 |
| LOCATION: | MT-MW01S | MT-MW02S | MT-MW03S | MT-MW04S |
| **FILTERED METALS (UG/L)** | | | | |
| ANTIMONY | 0.13 U | 0.13 U | 0.13 U | 0.21 B |
| ARSENIC | 5 K | 1.7 J | 0.86 J | 0.69 J |
| BARIUM | 120 | 110 | 20 | 76 |
| BERYLLIUM | 0.36 J | 0.68 J | 0.2 U | 3.1 |
| CADMIUM | 0.13 U | 0.13 U | 0.13 U | 0.23 J |
| CHROMIUM | 0.71 U | 0.71 U | 0.71 U | 0.71 U |
| COBALT | 120 | 23 | 1.1 | 200 |
| COPPER | 0.4 B | 0.62 B | 0.29 U | 44 |
| LEAD | 0.18 U | 1 K | 0.18 U | 0.64 B |
| MERCURY | 0.12 U | 0.12 U | 0.12 U | 0.12 U |
| MOLYBDENUM | 0.71 B | 0.093 U | 0.99 B | 0.55 B |
| NICKEL | 55 | 39 | 1.7 J | 320 |
| SELENIUM | 0.57 U | 0.57 U | 0.57 U | 0.57 U |
| SILVER | 0.08 U | 0.08 U | 0.08 U | 0.08 U |
| THALLIUM | 0.14 U | 0.14 U | 0.14 U | 1.3 B |
| TUNGSTEN | 0.37 U | 0.37 U | 0.37 U | 0.78 J |
| VANADIUM | 0.65 J | 0.44 U | 0.44 U | 0.44 U |
| ZINC | 8.3 B | 57 | 860 | 330 |
| **MISCELLANEOUS PARAMETERS (UG/L)** | | | | |
| HEXAVALENT CHROMIUM | 0.02 U | 0.02 U | 0.02 U | 0.02 UJ |
| PERCHLORATE | 0.082 U | 0.082 U | 0.082 U | 0.082 U |
| **PETROLEUM HYDROCARBONS (UG/L)** | | | | |
| TPH (C06-C10) | 64 B | 1400 | 49 B | 49 B |
| TPH (C10-C32) | 540 B | 3700 | 290 B | 440 B |

**Table H-2**

**Groundwater Summary Table**
**Main Terminal, Martin State Airport, Middle River, Maryland**


| SAMPLE ID: | MT-MW05S-042512 | MT-MW06S-042412 | MT-MW07S-082212 | MT-MW08S-082212 |
|---|---|---|---|---|
| SAMPLE DATE: | 20120425 | 20120424 | 20120822 | 20120822 |
| LOCATION: | MT-MW05S | MT-MW06S | MT-MW07S | MT-MW08S |
| **VOLATILES (UG/L)** | | | | |
| 1,1,1,2-TETRACHLOROETHANE | 0.23 U | 0.23 U | 0.23 U | 0.23 U |
| 1,1,1-TRICHLOROETHANE | 0.22 U | 0.22 U | 0.22 U | 0.22 U |
| 1,1,2,2-TETRACHLOROETHANE | 0.18 U | 0.18 U | 0.18 U | 0.18 U |
| 1,1,2-TRICHLOROTRIFLUOROETHANE | 0.28 U | 0.28 U | 0.28 U | 0.28 U |
| 1,1-DICHLOROETHANE | 0.15 U | 0.15 U | 0.15 U | 0.15 U |
| 1,1-DICHLOROETHENE | 0.19 U | 0.19 U | 0.19 U | 0.19 U |
| 1,1-DICHLOROPROPENE | 0.13 U | 0.13 U | 0.13 U | 0.13 U |
| 1,2,3-TRICHLOROBENZENE | 0.17 U | 0.17 U | 0.17 U | 0.17 U |
| 1,2,3-TRICHLOROPROPANE | 0.43 U | 0.43 U | 0.43 U | 0.43 U |
| 1,2,3-TRIMETHYLBENZENE | 0.0059 U | 0.0059 U | 0.0059 U | 0.0059 U |
| 1,2,4-TRICHLOROBENZENE | 0.15 U | 0.15 U | 0.15 U | 0.15 U |
| 1,2,4-TRIMETHYLBENZENE | 0.12 U | 0.12 U | 0.12 U | 0.12 U |
| 1,2-DIBROMO-3-CHLOROPROPANE | 0.67 U | 0.67 U | 0.67 U | 0.67 U |
| 1,2-DIBROMOETHANE | 0.24 U | 0.24 U | 0.24 U | 0.24 U |
| 1,2-DICHLOROBENZENE | 0.13 U | 0.13 U | 0.13 U | 0.13 U |
| 1,2-DICHLOROETHANE | 0.22 U | 0.22 U | 0.22 U | 0.22 U |
| 1,2-DICHLOROPROPANE | 0.18 U | 0.18 U | 0.18 U | 0.18 U |
| 1,3-DICHLOROBENZENE | 0.14 U | 0.14 U | 0.14 U | 0.14 U |
| 1,3-DICHLOROPROPANE | 0.16 U | 0.16 U | 0.16 U | 0.16 U |
| 1,4-DICHLOROBENZENE | 0.13 U | 0.13 U | 0.13 U | 0.13 U |
| 2,2-DICHLOROPROPANE | 0.13 U | 0.13 U | 0.13 U | 0.13 U |
| 2-BUTANONE | 0.57 U | 0.57 U | 0.57 U | 0.57 U |
| 2-CHLOROETHYL VINYL ETHER | 0.99 U | 0.99 U | 0.99 U | 0.99 U |
| 2-CHLOROTOLUENE | 0.11 U | 0.11 U | 0.11 U | 0.11 U |
| 2-HEXANONE | 0.41 U | 0.41 U | 0.41 U | 0.41 U |
| 4-CHLOROTOLUENE | 0.18 U | 0.18 U | 0.18 U | 0.18 U |
| 4-ISOPROPYLTOLUENE | 0.12 U | 0.12 U | 0.12 U | 0.12 U |
| 4-METHYL-2-PENTANONE | 0.32 U | 0.32 U | 0.32 U | 0.32 U |
| ACETONE | 1.1 U | 1.1 U | 1.1 U | 2.8 J |
| BENZENE | 0.13 U | 0.13 U | 0.13 U | 0.13 U |
| BROMOBENZENE | 0.13 U | 0.13 U | 0.13 U | 0.13 U |
| BROMOCHLOROMETHANE | 0.29 U | 0.29 U | 0.29 U | 0.29 U |
| BROMODICHLOROMETHANE | 0.15 U | 0.15 U | 0.15 U | 0.15 U |
| BROMOFORM | 0.64 U | 0.64 U | 0.64 U | 0.64 U |
| BROMOMETHANE | 0.41 U | 0.41 U | 0.41 U | 0.41 U |
| CARBON DISULFIDE | 0.13 U | 0.13 U | 0.16 J | 1.3 |
| CARBON TETRACHLORIDE | 0.13 U | 0.13 U | 0.13 U | 0.13 U |

**Table H-2**

**Groundwater Summary Table**
**Main Terminal, Martin State Airport, Middle River, Maryland**


| SAMPLE ID: | MT-MW05S-042512 | MT-MW06S-042412 | MT-MW07S-082212 | MT-MW08S-082212 |
|---|---|---|---|---|
| SAMPLE DATE: | 20120425 | 20120424 | 20120822 | 20120822 |
| LOCATION: | MT-MW05S | MT-MW06S | MT-MW07S | MT-MW08S |
| CHLOROBENZENE | 0.15 U | 0.15 U | 0.15 U | 0.15 U |
| CHLORODIBROMOMETHANE | 0.18 U | 0.18 U | 0.18 U | 0.18 U |
| CHLOROETHANE | 0.29 U | 0.29 U | 0.29 U | 0.29 U |
| CHLOROFORM | 0.16 U | 0.16 U | 0.16 U | 0.16 U |
| CHLOROMETHANE | 0.35 J | 0.47 J | 0.3 U | 0.37 J |
| CIS-1,2-DICHLOROETHENE | 0.17 U | 0.17 U | 0.17 U | 0.17 U |
| CIS-1,3-DICHLOROPROPENE | 0.14 U | 0.14 U | 0.14 U | 0.14 U |
| DIBROMOMETHANE | 0.28 U | 0.28 U | 0.28 U | 0.28 U |
| DICHLORODIFLUOROMETHANE | 0.31 U | 0.31 U | 0.31 U | 0.31 U |
| DIISOPROPYL ETHER | 1.5 U | 1.5 U | 1.5 U | 1.5 U |
| ETHYL TERT-BUTYL ETHER | 0.11 U | 0.11 U | NA | NA |
| ETHYL TERT-BUTYL ETHER | NA | NA | 0.11 U | 0.11 U |
| ETHYLBENZENE | 0.17 U | 0.17 U | 0.17 U | 0.17 U |
| HEXACHLOROBUTADIENE | 0.3 U | 0.3 U | 0.3 U | 0.3 U |
| ISOPROPYLBENZENE | 0.13 U | 0.13 U | 0.13 U | 0.13 U |
| M+P-XYLENES | 0.24 U | 0.24 U | 0.24 U | 0.24 U |
| METHYL TERT-BUTYL ETHER | 0.17 U | 0.17 U | 0.17 U | 0.17 U |
| METHYLENE CHLORIDE | 0.33 U | 0.33 U | 0.33 U | 0.33 U |
| NAPHTHALENE | 0.24 U | 0.24 U | 0.24 U | 0.24 U |
| N-BUTYLBENZENE | 0.12 U | 0.12 U | 0.12 U | 0.12 U |
| N-PROPYLBENZENE | 0.14 U | 0.14 U | 0.14 U | 0.14 U |
| O-XYLENE | 0.14 U | 0.14 U | 0.14 U | 0.14 U |
| SEC-BUTYLBENZENE | 0.13 U | 0.13 U | 0.13 U | 0.13 U |
| STYRENE | 0.11 U | 0.11 U | 0.11 U | 0.11 U |
| TERT-AMYL METHYL ETHER | 0.067 U | 0.067 U | NA | NA |
| TERT-AMYL METHYL ETHER | NA | NA | 0.067 U | 0.067 U |
| TERT-BUTYLBENZENE | 0.13 U | 0.13 U | 0.13 U | 0.13 U |
| TERTIARY-BUTYL ALCOHOL | 3.9 UR | 3.9 UR | 3.9 UR | 3.9 UR |
| TETRACHLOROETHENE | 0.29 U | 0.29 U | 0.29 U | 0.29 U |
| TOLUENE | 0.13 U | 0.13 U | 0.13 U | 0.16 J |
| TOTAL XYLENES | 0.28 U | 0.28 U | 0.28 U | 0.28 U |
| TRANS-1,2-DICHLOROETHENE | 0.19 U | 0.19 U | 0.19 U | 0.19 U |
| TRANS-1,3-DICHLOROPROPENE | 0.19 U | 0.19 U | 0.19 U | 0.19 U |
| TRICHLOROETHENE | 0.35 J | 0.17 U | 0.17 U | 0.17 U |
| TRICHLOROFLUOROMETHANE | 0.21 U | 0.21 U | 0.21 U | 0.21 U |
| VINYL ACETATE | 0.19 UR | 0.19 UR | 0.19 UR | 0.19 UR |
| VINYL CHLORIDE | 0.22 U | 0.22 U | 0.22 U | 0.22 U |

**Table H-2**

**Groundwater Summary Table**
**Main Terminal, Martin State Airport, Middle River, Maryland**


| SAMPLE ID: | MT-MW05S-042512 | MT-MW06S-042412 | MT-MW07S-082212 | MT-MW08S-082212 |
|---|---|---|---|---|
| SAMPLE DATE: | 20120425 | 20120424 | 20120822 | 20120822 |
| LOCATION: | MT-MW05S | MT-MW06S | MT-MW07S | MT-MW08S |
| **TIC VOLATILES (UG/L)** | | | | |
| 1,3,5-TRIMETHYLBENZENE | NA | NA | NA | NA |
| 1-ETHYL-2-METHYL BENZENE | NA | NA | NA | NA |
| 2,4-PENTANEDIONE, 3-METHYL- | NA | NA | NA | NA |
| 3-PENTANOL, 2,2-DIMETHYL- | NA | NA | NA | NA |
| 3-PENTANONE, 2,4-DIMETHYL- | NA | NA | NA | NA |
| BENZENE, 1-ETHYL-3-METHYL- | NA | NA | NA | NA |
| BUTANE | NA | NA | NA | NA |
| BUTANE, 2-METHYL- | 2.5 NJ | NA | NA | NA |
| CYCLOBUTANE, METHYL- | NA | NA | NA | NA |
| CYCLOHEXANE | NA | NA | NA | NA |
| INDANE | NA | NA | NA | NA |
| METHYL CYCLOHEXANE | NA | NA | NA | NA |
| METHYLCYCLOPENTANE | NA | NA | NA | NA |
| SILANE, FLUOROTRIMETHYL- | NA | NA | NA | NA |
| **SEMIVOLATILES (UG/L)** | | | | |
| 1,1-BIPHENYL | NA | NA | 0.78 U | 0.76 U |
| 1,4-DIOXANE | 0.51 U | 0.5 U | 0.48 U | 0.47 U |
| 2,2'-OXYBIS(1-CHLOROPROPANE) | NA | NA | 0.39 U | 0.38 U |
| 2,4,5-TRICHLOROPHENOL | NA | NA | 0.29 U | 0.29 U |
| 2,4,6-TRICHLOROPHENOL | NA | NA | 0.78 U | 0.76 U |
| 2,4-DICHLOROPHENOL | NA | NA | 0.78 U | 0.76 U |
| 2,4-DIMETHYLPHENOL | NA | NA | 0.78 U | 0.76 U |
| 2,4-DINITROPHENOL | NA | NA | 2.4 U | 2.3 U |
| 2,4-DINITROTOLUENE | NA | NA | 0.26 U | 0.26 U |
| 2,6-DINITROTOLUENE | NA | NA | 0.78 U | 0.76 U |
| 2-CHLORONAPHTHALENE | NA | NA | 0.098 U | 0.095 U |
| 2-CHLOROPHENOL | NA | NA | 0.28 U | 0.28 U |
| 2-METHYLNAPHTHALENE | NA | NA | 0.098 U | 0.095 U |
| 2-METHYLPHENOL | NA | NA | 0.78 U | 0.76 U |
| 2-NITROANILINE | NA | NA | 0.78 U | 0.76 U |
| 2-NITROPHENOL | NA | NA | 0.27 U | 0.27 U |
| 3&4-METHYLPHENOL | NA | NA | 0.74 U | 0.71 U |
| 3,3'-DICHLOROBENZIDINE | NA | NA | 0.36 U | 0.35 U |
| 3-NITROANILINE | NA | NA | 0.27 U | 0.27 U |
| 4,6-DINITRO-2-METHYLPHENOL | NA | NA | 2.4 U | 2.3 U |
| 4-BROMOPHENYL PHENYL ETHER | NA | NA | 0.78 U | 0.76 U |
| 4-CHLORO-3-METHYLPHENOL | NA | NA | 0.78 U | 0.76 U |

**Table H-2**

**Groundwater Summary Table**
**Main Terminal, Martin State Airport, Middle River, Maryland**


| SAMPLE ID: | MT-MW05S-042512 | MT-MW06S-042412 | MT-MW07S-082212 | MT-MW08S-082212 |
|---|---|---|---|---|
| SAMPLE DATE: | 20120425 | 20120424 | 20120822 | 20120822 |
| LOCATION: | MT-MW05S | MT-MW06S | MT-MW07S | MT-MW08S |
| 4-CHLOROANILINE | NA | NA | 0.78 U | 0.76 U |
| 4-CHLOROPHENYL PHENYL ETHER | NA | NA | 0.29 U | 0.29 U |
| 4-NITROANILINE | NA | NA | 0.78 U | 0.76 U |
| 4-NITROPHENOL | NA | NA | 2.4 U | 2.3 U |
| ACENAPHTHENE | NA | NA | 0.098 U | 0.095 U |
| ACENAPHTHYLENE | NA | NA | 0.098 U | 0.095 U |
| ACETOPHENONE | NA | NA | 0.33 U | 0.32 U |
| ANTHRACENE | NA | NA | 0.098 U | 0.095 U |
| ATRAZINE | NA | NA | 0.33 U | 0.32 U |
| BAP EQUIVALENT-HALFND | NA | NA | 0.098 U | 0.095 U |
| BAP EQUIVALENT-POS | NA | NA | 0.098 U | 0.095 U |
| BENZALDEHYDE | NA | NA | 0.38 U | 0.37 U |
| BENZO(A)ANTHRACENE | NA | NA | 0.098 U | 0.095 U |
| BENZO(A)PYRENE | NA | NA | 0.098 U | 0.095 U |
| BENZO(B)FLUORANTHENE | NA | NA | 0.098 U | 0.095 U |
| BENZO(G,H,I)PERYLENE | NA | NA | 0.098 U | 0.095 U |
| BENZO(K)FLUORANTHENE | NA | NA | 0.098 U | 0.095 U |
| BIS(2-CHLOROETHOXY)METHANE | NA | NA | 0.31 U | 0.3 U |
| BIS(2-CHLOROETHYL)ETHER | NA | NA | 0.098 U | 0.095 U |
| BIS(2-ETHYLHEXYL)PHTHALATE | NA | NA | 0.91 J | 0.79 J |
| BUTYL BENZYL PHTHALATE | NA | NA | 0.78 U | 0.76 U |
| CAPROLACTAM | NA | NA | 0.78 U | 0.78 J |
| CARBAZOLE | NA | NA | 0.27 U | 0.27 U |
| CHRYSENE | NA | NA | 0.098 U | 0.095 U |
| DIBENZO(A,H)ANTHRACENE | NA | NA | 0.098 U | 0.095 U |
| DIBENZOFURAN | NA | NA | 0.098 U | 0.095 U |
| DIETHYL PHTHALATE | NA | NA | 0.59 U | 0.57 U |
| DIMETHYL PHTHALATE | NA | NA | 0.28 U | 0.28 U |
| DI-N-BUTYL PHTHALATE | NA | NA | 0.66 U | 0.64 U |
| DI-N-OCTYL PHTHALATE | NA | NA | 0.78 U | 0.76 U |
| FLUORANTHENE | NA | NA | 0.098 U | 0.095 U |
| FLUORENE | NA | NA | 0.098 U | 0.095 U |
| HEXACHLOROBENZENE | NA | NA | 0.098 U | 0.095 U |
| HEXACHLOROBUTADIENE | NA | NA | 0.26 U | 0.26 U |
| HEXACHLOROCYCLOPENTADIENE | NA | NA | 0.78 U | 0.76 U |
| HEXACHLOROETHANE | NA | NA | 0.78 U | 0.76 U |
| INDENO(1,2,3-CD)PYRENE | NA | NA | 0.098 U | 0.095 U |
| ISOPHORONE | NA | NA | 0.26 U | 0.26 U |

**Table H-2**

**Groundwater Summary Table**
**Main Terminal, Martin State Airport, Middle River, Maryland**


| SAMPLE ID: | MT-MW05S-042512 | MT-MW06S-042412 | MT-MW07S-082212 | MT-MW08S-082212 |
|---|---|---|---|---|
| SAMPLE DATE: | 20120425 | 20120424 | 20120822 | 20120822 |
| LOCATION: | MT-MW05S | MT-MW06S | MT-MW07S | MT-MW08S |
| NAPHTHALENE | NA | NA | 0.098 U | 0.095 U |
| NITROBENZENE | NA | NA | 0.039 U | 0.038 U |
| N-NITROSODIMETHYLAMINE | NA | NA | 0.3 U | 0.3 U |
| N-NITROSO-DI-N-PROPYLAMINE | NA | NA | 0.78 U | 0.76 U |
| N-NITROSODIPHENYLAMINE | NA | NA | 0.3 U | 0.3 U |
| PENTACHLOROPHENOL | NA | NA | 2.4 U | 2.3 U |
| PHENANTHRENE | NA | NA | 0.098 U | 0.095 U |
| PHENOL | NA | NA | 0.59 U | 0.57 U |
| PYRENE | NA | NA | 0.098 U | 0.095 U |
| **METALS (UG/L)** | | | | |
| ANTIMONY | 0.13 U | 0.13 U | 0.17 J | 0.4 J |
| ARSENIC | 1 J | 1.5 J | 0.4 U | 0.4 U |
| BARIUM | 20 | 96 | 20 | 63 |
| BERYLLIUM | 36 | 81 | 3 | 0.2 U |
| CADMIUM | 0.85 J | 2 | 0.13 U | 0.13 U |
| CHROMIUM | 0.71 U | 0.71 U | 5.2 | 1.8 J |
| COBALT | 430 | 540 | 20 | 5.9 |
| COPPER | 32 | 46 | 3.4 K | 2.1 B |
| LEAD | 1.3 B | 2.3 | 0.55 J | 0.29 J |
| MERCURY | 0.12 U | 0.12 U | 0.39 | 0.12 U |
| MOLYBDENUM | 0.093 U | 0.15 B | 0.22 B | 0.67 B |
| NICKEL | 870 | 1200 | 31 | 11 |
| SELENIUM | 0.74 J | 1.2 J | 0.57 U | 0.57 U |
| SILVER | 0.08 U | 0.08 U | 0.08 U | 0.08 U |
| THALLIUM | 0.34 B | 0.77 B | 0.16 B | 0.14 U |
| TUNGSTEN | 0.37 U | 0.37 U | NA | NA |
| VANADIUM | 0.44 U | 0.44 U | 2.4 J | 0.61 J |
| ZINC | 2500 | 1900 | 53 | 12 B |

**Table H-2**

**Groundwater Summary Table**
**Main Terminal, Martin State Airport, Middle River, Maryland**


| SAMPLE ID: | MT-MW05S-042512 | MT-MW06S-042412 | MT-MW07S-082212 | MT-MW08S-082212 |
|---|---|---|---|---|
| SAMPLE DATE: | 20120425 | 20120424 | 20120822 | 20120822 |
| LOCATION: | MT-MW05S | MT-MW06S | MT-MW07S | MT-MW08S |
| **FILTERED METALS (UG/L)** | | | | |
| ANTIMONY | 0.13 U | 0.13 U | 0.13 J | 0.31 J |
| ARSENIC | 1.2 J | 1.3 J | 0.4 U | 0.4 U |
| BARIUM | 20 | 94 | 17 | 62 |
| BERYLLIUM | 36 | 80 | 2.9 | 0.2 U |
| CADMIUM | 0.9 J | 2.1 | 0.13 U | 0.13 U |
| CHROMIUM | 0.71 U | 0.71 U | 0.71 U | 0.71 U |
| COBALT | 430 | 530 | 21 | 5.5 |
| COPPER | 35 | 48 | 1.5 B | 1.4 B |
| LEAD | 1.3 B | 2.3 | 0.18 U | 0.18 U |
| MERCURY | 0.12 U | 0.12 U | 0.12 U | 0.12 U |
| MOLYBDENUM | 0.093 U | 0.093 U | 0.11 B | 0.69 B |
| NICKEL | 870 | 1200 | 31 | 11 |
| SELENIUM | 0.57 U | 0.63 J | 0.57 U | 0.57 U |
| SILVER | 0.08 U | 0.08 U | 0.08 U | 0.08 U |
| THALLIUM | 0.32 B | 0.57 B | 0.14 B | 0.14 U |
| TUNGSTEN | 0.37 U | 0.37 U | NA | NA |
| VANADIUM | 0.44 U | 0.44 U | 0.44 U | 0.44 U |
| ZINC | 2500 | 1900 | 51 | 12 B |
| **MISCELLANEOUS PARAMETERS (UG/L)** | | | | |
| HEXAVALENT CHROMIUM | 0.02 U | 0.02 UJ | NA | NA |
| PERCHLORATE | 0.082 U | 0.16 J | NA | NA |
| **PETROLEUM HYDROCARBONS (UG/L)** | | | | |
| TPH (C06-C10) | 52 B | 64 B | 36 B | 40 B |
| TPH (C10-C32) | 430 B | 480 B | 400 B | 240 U |

**Table H-2**

**Groundwater Summary Table**
**Main Terminal, Martin State Airport, Middle River, Maryland**


| SAMPLE ID: | MT-MW09S-082112 | MT-MW10S-082212 | MT-MW11S-082112 | MT-MW12S-082112 |
|---|---|---|---|---|
| SAMPLE DATE: | 20120821 | 20120822 | 20120821 | 20120821 |
| LOCATION: | MT-MW09S | MT-MW10S | MT-MW11S | MT-MW12S |
| **VOLATILES (UG/L)** | | | | |
| 1,1,1,2-TETRACHLOROETHANE | 0.23 U | 0.23 U | 0.23 U | 0.23 U |
| 1,1,1-TRICHLOROETHANE | 0.22 U | 0.22 U | 0.22 U | 0.22 U |
| 1,1,2,2-TETRACHLOROETHANE | 0.18 U | 0.18 U | 0.18 U | 0.18 U |
| 1,1,2-TRICHLOROTRIFLUOROETHANE | 0.28 U | 0.28 U | 0.28 U | 0.28 U |
| 1,1-DICHLOROETHANE | 0.15 U | 0.15 U | 0.15 U | 0.15 U |
| 1,1-DICHLOROETHENE | 0.19 U | 0.19 U | 0.19 U | 0.19 U |
| 1,1-DICHLOROPROPENE | 0.13 U | 0.13 U | 0.13 U | 0.13 U |
| 1,2,3-TRICHLOROBENZENE | 0.17 U | 0.17 U | 0.17 U | 0.17 U |
| 1,2,3-TRICHLOROPROPANE | 0.43 U | 0.43 U | 0.43 U | 0.43 U |
| 1,2,3-TRIMETHYLBENZENE | 0.0059 U | 0.0059 U | 0.0059 U | 0.0059 U |
| 1,2,4-TRICHLOROBENZENE | 0.15 U | 0.15 U | 0.15 U | 0.15 U |
| 1,2,4-TRIMETHYLBENZENE | 0.12 U | 0.12 U | 0.12 U | 0.12 U |
| 1,2-DIBROMO-3-CHLOROPROPANE | 0.67 U | 0.67 U | 0.67 U | 0.67 U |
| 1,2-DIBROMOETHANE | 0.24 U | 0.24 U | 0.24 U | 0.24 U |
| 1,2-DICHLOROBENZENE | 0.13 U | 0.13 U | 0.13 U | 0.13 U |
| 1,2-DICHLOROETHANE | 0.22 U | 0.22 U | 0.22 U | 0.22 U |
| 1,2-DICHLOROPROPANE | 0.18 U | 0.18 U | 0.18 U | 0.18 U |
| 1,3-DICHLOROBENZENE | 0.14 U | 0.14 U | 0.14 U | 0.14 U |
| 1,3-DICHLOROPROPANE | 0.16 U | 0.16 U | 0.16 U | 0.16 U |
| 1,4-DICHLOROBENZENE | 0.13 U | 0.13 U | 0.13 U | 0.13 U |
| 2,2-DICHLOROPROPANE | 0.13 U | 0.13 U | 0.13 U | 0.13 U |
| 2-BUTANONE | 0.57 U | 0.57 U | 0.57 U | 0.57 U |
| 2-CHLOROETHYL VINYL ETHER | 0.99 U | 0.99 U | 0.99 U | 0.99 U |
| 2-CHLOROTOLUENE | 0.11 U | 0.11 U | 0.11 U | 0.11 U |
| 2-HEXANONE | 0.41 U | 0.41 U | 0.41 U | 0.41 U |
| 4-CHLOROTOLUENE | 0.18 U | 0.18 U | 0.18 U | 0.18 U |
| 4-ISOPROPYLTOLUENE | 0.12 U | 0.12 U | 0.12 U | 0.12 U |
| 4-METHYL-2-PENTANONE | 0.32 U | 0.32 U | 0.32 U | 0.32 U |
| ACETONE | 1.9 J | 1.1 U | 2.8 J | 1.1 U |
| BENZENE | 0.13 U | 1.9 | 0.13 U | 0.13 U |
| BROMOBENZENE | 0.13 U | 0.13 U | 0.13 U | 0.13 U |
| BROMOCHLOROMETHANE | 0.29 U | 0.29 U | 0.29 U | 0.29 U |
| BROMODICHLOROMETHANE | 0.15 U | 0.15 U | 0.15 U | 0.15 U |
| BROMOFORM | 0.64 U | 0.64 U | 0.64 U | 0.64 U |
| BROMOMETHANE | 0.41 U | 0.41 U | 0.41 U | 0.41 U |
| CARBON DISULFIDE | 2.9 | 0.67 J | 0.46 J | 0.13 U |
| CARBON TETRACHLORIDE | 0.13 U | 0.13 U | 0.13 U | 0.34 J |

**Table H-2**

**Groundwater Summary Table**
**Main Terminal, Martin State Airport, Middle River, Maryland**


| SAMPLE ID: | MT-MW09S-082112 | MT-MW10S-082212 | MT-MW11S-082112 | MT-MW12S-082112 |
|---|---|---|---|---|
| SAMPLE DATE: | 20120821 | 20120822 | 20120821 | 20120821 |
| LOCATION: | MT-MW09S | MT-MW10S | MT-MW11S | MT-MW12S |
| CHLOROBENZENE | 0.15 U | 0.15 U | 0.15 U | 0.15 U |
| CHLORODIBROMOMETHANE | 0.18 U | 0.18 U | 0.18 U | 0.18 U |
| CHLOROETHANE | 0.29 U | 0.29 U | 0.29 U | 0.29 U |
| CHLOROFORM | 0.16 U | 0.16 U | 0.36 J | 11 |
| CHLOROMETHANE | 0.3 U | 0.3 U | 0.3 U | 0.3 U |
| CIS-1,2-DICHLOROETHENE | 0.17 U | 0.17 U | 0.17 U | 0.17 U |
| CIS-1,3-DICHLOROPROPENE | 0.14 U | 0.14 U | 0.14 U | 0.14 U |
| DIBROMOMETHANE | 0.28 U | 0.28 U | 0.28 U | 0.28 U |
| DICHLORODIFLUOROMETHANE | 0.31 U | 0.31 U | 0.31 U | 0.31 U |
| DIISOPROPYL ETHER | 1.5 U | 1.5 U | 1.5 U | 1.5 U |
| ETHYL TERT-BUTYL ETHER | NA | NA | NA | NA |
| ETHYL TERT-BUTYL ETHER | 0.11 U | 0.11 U | 0.11 U | 0.11 U |
| ETHYLBENZENE | 0.17 U | 0.17 U | 0.17 U | 0.17 U |
| HEXACHLOROBUTADIENE | 0.3 U | 0.3 U | 0.3 U | 0.3 U |
| ISOPROPYLBENZENE | 0.13 U | 0.13 U | 0.13 U | 0.13 U |
| M+P-XYLENES | 0.24 U | 0.24 U | 0.24 U | 0.24 U |
| METHYL TERT-BUTYL ETHER | 0.17 U | 0.17 U | 0.17 U | 0.17 U |
| METHYLENE CHLORIDE | 0.33 U | 0.33 U | 0.33 U | 0.33 U |
| NAPHTHALENE | 0.24 U | 0.24 U | 0.24 U | 0.54 J |
| N-BUTYLBENZENE | 0.12 U | 0.12 U | 0.12 U | 0.12 U |
| N-PROPYLBENZENE | 0.14 U | 0.14 U | 0.14 U | 0.14 U |
| O-XYLENE | 0.14 U | 0.14 U | 0.14 U | 0.14 U |
| SEC-BUTYLBENZENE | 0.13 U | 0.13 U | 0.13 U | 0.13 U |
| STYRENE | 0.11 U | 0.11 U | 0.11 U | 0.11 U |
| TERT-AMYL METHYL ETHER | NA | NA | NA | NA |
| TERT-AMYL METHYL ETHER | 0.067 U | 0.067 U | 0.067 U | 0.067 U |
| TERT-BUTYLBENZENE | 0.13 U | 0.13 U | 0.13 U | 0.13 U |
| TERTIARY-BUTYL ALCOHOL | 3.9 UR | 3.9 UR | 3.9 UR | 3.9 UR |
| TETRACHLOROETHENE | 0.29 U | 0.29 U | 0.29 U | 0.29 U |
| TOLUENE | 0.13 U | 0.27 J | 0.13 U | 0.13 U |
| TOTAL XYLENES | 0.28 U | 0.28 U | 0.28 U | 0.28 U |
| TRANS-1,2-DICHLOROETHENE | 0.19 U | 0.19 U | 0.19 U | 0.19 U |
| TRANS-1,3-DICHLOROPROPENE | 0.19 U | 0.19 U | 0.19 U | 0.19 U |
| TRICHLOROETHENE | 0.17 U | 0.17 U | 0.17 U | 0.17 U |
| TRICHLOROFLUOROMETHANE | 0.21 U | 0.21 U | 0.21 U | 0.21 U |
| VINYL ACETATE | 0.19 UR | 0.19 UR | 0.19 UR | 0.19 UR |
| VINYL CHLORIDE | 0.22 U | 0.22 U | 0.22 U | 0.22 U |

**Table H-2**

**Groundwater Summary Table**
**Main Terminal, Martin State Airport, Middle River, Maryland**


| SAMPLE ID: | MT-MW09S-082112 | MT-MW10S-082212 | MT-MW11S-082112 | MT-MW12S-082112 |
|---|---|---|---|---|
| SAMPLE DATE: | 20120821 | 20120822 | 20120821 | 20120821 |
| LOCATION: | MT-MW09S | MT-MW10S | MT-MW11S | MT-MW12S |
| **TIC VOLATILES (UG/L)** | | | | |
| 1,3,5-TRIMETHYLBENZENE | NA | NA | NA | NA |
| 1-ETHYL-2-METHYL BENZENE | NA | NA | NA | NA |
| 2,4-PENTANEDIONE, 3-METHYL- | NA | NA | NA | NA |
| 3-PENTANOL, 2,2-DIMETHYL- | NA | NA | NA | NA |
| 3-PENTANONE, 2,4-DIMETHYL- | NA | NA | NA | NA |
| BENZENE, 1-ETHYL-3-METHYL- | NA | NA | NA | NA |
| BUTANE | NA | NA | NA | NA |
| BUTANE, 2-METHYL- | NA | NA | NA | NA |
| CYCLOBUTANE, METHYL- | NA | NA | NA | NA |
| CYCLOHEXANE | NA | NA | NA | NA |
| INDANE | NA | NA | NA | NA |
| METHYL CYCLOHEXANE | NA | NA | NA | NA |
| METHYLCYCLOPENTANE | NA | NA | NA | NA |
| SILANE, FLUOROTRIMETHYL- | NA | NA | NA | NA |
| **SEMIVOLATILES (UG/L)** | | | | |
| 1,1-BIPHENYL | 0.76 U | 0.76 U | 0.76 U | 0.76 U |
| 1,4-DIOXANE | 0.47 U | 0.47 U | 0.47 U | 0.47 U |
| 2,2'-OXYBIS(1-CHLOROPROPANE) | 0.38 U | 0.38 U | 0.38 U | 0.38 U |
| 2,4,5-TRICHLOROPHENOL | 0.29 U | 0.29 U | 0.29 U | 0.29 U |
| 2,4,6-TRICHLOROPHENOL | 0.76 U | 0.76 U | 0.76 U | 0.76 U |
| 2,4-DICHLOROPHENOL | 0.76 U | 0.76 U | 0.76 U | 0.76 U |
| 2,4-DIMETHYLPHENOL | 0.76 U | 0.76 U | 0.76 U | 0.76 U |
| 2,4-DINITROPHENOL | 2.3 U | 2.3 U | 2.3 U | 2.3 U |
| 2,4-DINITROTOLUENE | 0.26 U | 0.26 U | 0.26 U | 0.26 U |
| 2,6-DINITROTOLUENE | 0.76 U | 0.76 U | 0.76 U | 0.76 U |
| 2-CHLORONAPHTHALENE | 0.095 U | 0.095 U | 0.095 U | 0.095 U |
| 2-CHLOROPHENOL | 0.28 U | 0.28 U | 0.28 U | 0.28 U |
| 2-METHYLNAPHTHALENE | 0.095 U | 0.095 U | 0.095 U | 0.095 U |
| 2-METHYLPHENOL | 0.76 U | 0.76 U | 0.76 U | 0.76 U |
| 2-NITROANILINE | 0.76 U | 0.76 U | 0.76 U | 0.76 U |
| 2-NITROPHENOL | 0.27 U | 0.27 U | 0.27 U | 0.27 U |
| 3&4-METHYLPHENOL | 0.71 U | 0.71 U | 0.71 U | 0.71 U |
| 3,3'-DICHLOROBENZIDINE | 0.35 U | 0.35 U | 0.35 U | 0.35 U |
| 3-NITROANILINE | 0.27 U | 0.27 U | 0.27 U | 0.27 U |
| 4,6-DINITRO-2-METHYLPHENOL | 2.3 U | 2.3 U | 2.3 U | 2.3 U |
| 4-BROMOPHENYL PHENYL ETHER | 0.76 U | 0.76 U | 0.76 U | 0.76 U |
| 4-CHLORO-3-METHYLPHENOL | 0.76 U | 0.76 U | 0.76 U | 0.76 U |

**Table H-2**

**Groundwater Summary Table**
**Main Terminal, Martin State Airport, Middle River, Maryland**


| SAMPLE ID: | MT-MW09S-082112 | MT-MW10S-082212 | MT-MW11S-082112 | MT-MW12S-082112 |
|---|---|---|---|---|
| SAMPLE DATE: | 20120821 | 20120822 | 20120821 | 20120821 |
| LOCATION: | MT-MW09S | MT-MW10S | MT-MW11S | MT-MW12S |
| 4-CHLOROANILINE | 0.76 U | 0.76 U | 0.76 U | 0.76 U |
| 4-CHLOROPHENYL PHENYL ETHER | 0.29 U | 0.29 U | 0.29 U | 0.29 U |
| 4-NITROANILINE | 0.76 U | 0.76 U | 0.76 U | 0.76 U |
| 4-NITROPHENOL | 2.3 U | 2.3 U | 2.3 U | 2.3 U |
| ACENAPHTHENE | 0.095 U | 0.095 U | 0.095 U | 0.095 U |
| ACENAPHTHYLENE | 0.095 U | 0.095 U | 0.095 U | 0.095 U |
| ACETOPHENONE | 0.32 U | 0.32 U | 0.32 U | 0.32 U |
| ANTHRACENE | 0.095 U | 0.095 U | 0.095 U | 0.095 U |
| ATRAZINE | 0.32 U | 0.32 U | 0.32 U | 0.32 U |
| BAP EQUIVALENT-HALFND | 0.095 U | 0.095 U | 0.095 U | 0.095 U |
| BAP EQUIVALENT-POS | 0.095 U | 0.095 U | 0.095 U | 0.095 U |
| BENZALDEHYDE | 0.37 U | 0.37 U | 0.37 U | 0.37 U |
| BENZO(A)ANTHRACENE | 0.095 U | 0.095 U | 0.095 U | 0.095 U |
| BENZO(A)PYRENE | 0.095 U | 0.095 U | 0.095 U | 0.095 U |
| BENZO(B)FLUORANTHENE | 0.095 U | 0.095 U | 0.095 U | 0.095 U |
| BENZO(G,H,I)PERYLENE | 0.095 U | 0.095 U | 0.095 U | 0.095 U |
| BENZO(K)FLUORANTHENE | 0.095 U | 0.095 U | 0.095 U | 0.095 U |
| BIS(2-CHLOROETHOXY)METHANE | 0.3 U | 0.3 U | 0.3 U | 0.3 U |
| BIS(2-CHLOROETHYL)ETHER | 0.095 U | 0.095 U | 0.095 U | 0.095 U |
| BIS(2-ETHYLHEXYL)PHTHALATE | 1.5 J | 0.76 U | 1.5 J | 1.1 J |
| BUTYL BENZYL PHTHALATE | 0.76 U | 0.76 U | 0.76 U | 0.76 U |
| CAPROLACTAM | 1.7 J | 0.76 U | 0.76 U | 0.76 U |
| CARBAZOLE | 0.27 U | 0.27 U | 0.27 U | 0.27 U |
| CHRYSENE | 0.095 U | 0.095 U | 0.095 U | 0.095 U |
| DIBENZO(A,H)ANTHRACENE | 0.095 U | 0.095 U | 0.095 U | 0.095 U |
| DIBENZOFURAN | 0.095 U | 0.095 U | 0.095 U | 0.095 U |
| DIETHYL PHTHALATE | 0.57 U | 0.57 U | 0.57 U | 0.57 U |
| DIMETHYL PHTHALATE | 0.28 U | 0.28 U | 0.28 U | 0.28 U |
| DI-N-BUTYL PHTHALATE | 0.64 U | 0.64 U | 0.64 U | 0.64 U |
| DI-N-OCTYL PHTHALATE | 0.76 U | 0.76 U | 0.76 U | 0.76 U |
| FLUORANTHENE | 0.095 U | 0.095 U | 0.095 U | 0.095 U |
| FLUORENE | 0.095 U | 0.095 U | 0.095 U | 0.095 U |
| HEXACHLOROBENZENE | 0.095 U | 0.095 U | 0.095 U | 0.095 U |
| HEXACHLOROBUTADIENE | 0.26 U | 0.26 U | 0.26 U | 0.26 U |
| HEXACHLOROCYCLOPENTADIENE | 0.76 U | 0.76 U | 0.76 U | 0.76 U |
| HEXACHLOROETHANE | 0.76 U | 0.76 U | 0.76 U | 0.76 U |
| INDENO(1,2,3-CD)PYRENE | 0.095 U | 0.095 U | 0.095 U | 0.095 U |
| ISOPHORONE | 0.26 U | 0.26 U | 0.26 U | 0.26 U |

**Table H-2**

**Groundwater Summary Table**
**Main Terminal, Martin State Airport, Middle River, Maryland**


| SAMPLE ID: | MT-MW09S-082112 | MT-MW10S-082212 | MT-MW11S-082112 | MT-MW12S-082112 |
|---|---|---|---|---|
| SAMPLE DATE: | 20120821 | 20120822 | 20120821 | 20120821 |
| LOCATION: | MT-MW09S | MT-MW10S | MT-MW11S | MT-MW12S |
| NAPHTHALENE | 0.095 U | 0.095 U | 0.095 U | 0.095 U |
| NITROBENZENE | 0.038 U | 0.038 U | 0.038 U | 0.038 U |
| N-NITROSODIMETHYLAMINE | 0.3 U | 0.3 U | 0.3 U | 0.3 U |
| N-NITROSO-DI-N-PROPYLAMINE | 0.76 U | 0.76 U | 0.76 U | 0.76 U |
| N-NITROSODIPHENYLAMINE | 0.3 U | 0.3 U | 0.3 U | 0.3 U |
| PENTACHLOROPHENOL | 2.3 U | 2.3 U | 2.3 U | 2.3 U |
| PHENANTHRENE | 0.095 U | 0.095 U | 0.095 U | 0.095 U |
| PHENOL | 0.57 U | 0.57 U | 0.57 U | 0.57 U |
| PYRENE | 0.095 U | 0.095 U | 0.095 U | 0.095 U |
| **METALS (UG/L)** | | | | |
| ANTIMONY | 1.9 J | 0.15 J | 1.3 J | 0.49 J |
| ARSENIC | 0.6 J | 0.56 J | 1.2 J | 0.75 J |
| BARIUM | 59 | 63 | 120 | 100 |
| BERYLLIUM | 1.8 | 23 | 0.44 J | 4.9 |
| CADMIUM | 0.13 U | 0.13 U | 0.13 U | 0.75 J |
| CHROMIUM | 1.8 J | 2.5 | 21 | 1.2 J |
| COBALT | 7.6 | 250 | 86 | 390 |
| COPPER | 2.2 B | 1.5 B | 2.8 K | 12 |
| LEAD | 0.79 J | 0.44 J | 0.76 J | 0.54 J |
| MERCURY | 0.12 U | 0.12 U | 0.12 U | 0.12 J |
| MOLYBDENUM | 1.9 B | 0.34 B | 3.9 B | 1.2 B |
| NICKEL | 12 | 380 | 140 | 690 |
| SELENIUM | 0.62 J | 0.57 U | 0.57 U | 0.79 J |
| SILVER | 0.08 U | 0.08 U | 0.08 U | 0.08 U |
| THALLIUM | 0.57 B | 0.2 B | 0.37 B | 0.38 B |
| TUNGSTEN | NA | NA | NA | NA |
| VANADIUM | 0.84 J | 0.53 J | 2.6 J | 0.87 J |
| ZINC | 43 | 370 | 160 | 670 |

**Table H-2**

**Groundwater Summary Table**
**Main Terminal, Martin State Airport, Middle River, Maryland**
**Page 18 of 18**

| SAMPLE ID: | MT-MW09S-082112 | MT-MW10S-082212 | MT-MW11S-082112 | MT-MW12S-082112 |
|---|---|---|---|---|
| SAMPLE DATE: | 20120821 | 20120822 | 20120821 | 20120821 |
| LOCATION: | MT-MW09S | MT-MW10S | MT-MW11S | MT-MW12S |
| **FILTERED METALS (UG/L)** | | | | |
| ANTIMONY | 3 | 0.14 J | 1.1 J | 0.28 J |
| ARSENIC | 0.52 J | 0.4 U | 0.74 J | 0.4 U |
| BARIUM | 47 | 62 | 110 | 110 |
| BERYLLIUM | 1.7 | 22 | 0.2 U | 1.9 |
| CADMIUM | 0.13 U | 0.13 U | 0.13 U | 0.42 J |
| CHROMIUM | 0.71 U | 0.71 U | 0.71 U | 0.71 U |
| COBALT | 7.5 | 250 | 54 | 400 |
| COPPER | 0.41 B | 0.29 B | 0.39 B | 0.31 B |
| LEAD | 0.18 U | 0.18 U | 0.18 U | 0.18 U |
| MERCURY | 0.12 U | 0.12 U | 0.12 U | 0.12 U |
| MOLYBDENUM | 2.5 B | 0.23 B | 4.2 B | 0.97 B |
| NICKEL | 12 | 370 | 83 | 680 |
| SELENIUM | 0.57 U | 0.57 U | 0.57 U | 0.57 U |
| SILVER | 0.08 U | 0.08 U | 0.08 U | 0.08 U |
| THALLIUM | 0.44 B | 0.19 B | 0.3 B | 0.33 B |
| TUNGSTEN | NA | NA | NA | NA |
| VANADIUM | 0.44 U | 0.44 U | 0.89 J | 0.44 U |
| ZINC | 43 | 360 | 11 B | 580 |
| **MISCELLANEOUS PARAMETERS (UG/L)** | | | | |
| HEXAVALENT CHROMIUM | NA | NA | NA | NA |
| PERCHLORATE | NA | NA | NA | NA |
| **PETROLEUM HYDROCARBONS (UG/L)** | | | | |
| TPH (C06-C10) | 56 B | 41 B | 61 B | 64 B |
| TPH (C10-C32) | 470 B | 330 B | 410 B | 240 B |

B - qualified due to blank contamination.
J - estimated positive value.
K - positive value biased high.
NJ - estimated postive TIC result.
R - rejected positive result.
U - nondetected value.
UJ - estimated nondetected value.
UR - nondetected value rejected.

**Table H-2**

**Statistical Analysis for Soil**
**Main Terminal, Martin State Airport, Middle River, Maryland**


| Chemical | Frequency of Detection | | Mininum Non Detected | Maximum Non Detected | Mininum Detected | | Maximum Detected | | Location of Maximum Detected | Sample of Maximum Detected | Mean of Positive Detects | Mean of All Samples | Standard Deviation |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number | Percent | | | | | | | | | | | |
| **VOLATILES (ug/kg)** | | | | | | | | | | | | | |
| 1,1,3-TRIMETHYLCYCLOHEXANE | 1/1 | 100 | | | 4.4 | NJ | 4.4 | NJ | MT-SS17 | MT-SS17-0-2 | 4.4 | 4.4 | |
| 1,3,5-TRIMETHYLBENZENE | 2/2 | 100 | | | 1.3 | NJ | 45 | NJ | MT-SS18 | MT-SS18-0-2 | 23.2 | 23.2 | 30.9 |
| 2,3,3-TRIMETHYLPENTANE | 1/1 | 100 | | | 13 | NJ | 13 | NJ | MT-SS18 | MT-SS18-8-10 | 13.0 | 13.0 | |
| 2,3,4-TRIMETHYLPENTANE | 1/1 | 100 | | | 9.7 | NJ | 9.7 | NJ | MT-SS18 | MT-SS18-8-10 | 9.7 | 9.7 | |
| 2,3-DIMETHYLPENTANE | 1/1 | 100 | | | 8.2 | NJ | 8.2 | NJ | MT-SS18 | MT-SS18-8-10 | 8.2 | 8.2 | |
| 2,4-DIMETHYLPENTANE | 1/1 | 100 | | | 8.8 | NJ | 8.8 | NJ | MT-SS18 | MT-SS18-8-10 | 8.8 | 8.8 | |
| 2-METHYLBUTANE | 1/1 | 100 | | | 30 | NJ | 30 | NJ | MT-SS18 | MT-SS18-8-10 | 30.0 | 30.0 | |
| 3-METHYLPENTANE | 1/1 | 100 | | | 11 | NJ | 11 | NJ | MT-SS18 | MT-SS18-8-10 | 11.0 | 11.0 | |
| BENZENE, 1-ETHYL-2,3-DIMETHYL- | 1/1 | 100 | | | 4.6 | NJ | 4.6 | NJ | MT-SS17 | MT-SS17-0-2 | 4.6 | 4.6 | |
| BENZENE, 1-METHYL-2-(1-METHYLETHYL)- | 1/1 | 100 | | | 8.2 | NJ | 8.2 | NJ | MT-SS17 | MT-SS17-0-2 | 8.2 | 8.2 | |
| BENZENE, 1-METHYL-4-(1-METHYLETHYL)- | 1/1 | 100 | | | 5.1 | NJ | 5.1 | NJ | MT-SS17 | MT-SS17-0-2 | 5.1 | 5.1 | |
| BUTANE, 2,2,3,3-TETRAMETHYL- | 1/1 | 100 | | | 26 | NJ | 26 | NJ | MT-SS18 | MT-SS18-8-10 | 26.0 | 26.0 | |
| CYCLOHEXANE | 3/3 | 100 | | | 0.32 | J | 140 | J | MT-SS18 | MT-SS18-0-2 | 52.1 | 52.1 | 76.5 |
| HEXANE | 7/7 | 100 | | | 1.2 | J | 2.6 | J | MT-SS19 | MT-SS19-0-2 | 1.9 | 1.9 | 0.5 |
| HEXANE | 7/7 | 100 | | | 1.2 | J | 2.6 | J | MT-SS19 | MT-SS19-8-10 | 1.9 | 1.9 | 0.5 |
| HEXANE, 2,2,4-TRIMETHYL- | 1/1 | 100 | | | 6.6 | NJ | 6.6 | NJ | MT-SS18 | MT-SS18-8-10 | 6.6 | 6.6 | |
| METHYL CYCLOHEXANE | 2/2 | 100 | | | 2.6 | J | 28 | J | MT-SS18 | MT-SS18-0-2 | 15.3 | 15.3 | 18.0 |
| TETRAHYDROFURAN | 1/1 | 100 | | | 80 | NJ | 80 | NJ | MT-SS18 | MT-SS18-0-2 | 80.0 | 80.0 | |
| UNKNOWN | 1/1 | 100 | | | 6.3 | NJ | 6.3 | NJ | MT-SS17 | MT-SS17-0-2 | 6.3 | 6.3 | |
| 1,2,3-TRIMETHYLBENZENE | 3/10 | 30 | 0.14 | 0.17 | 1.9 | J | 33 | J | MT-SS18 | MT-SS18-0-2 | 12.9 | 3.9 | 10.3 |
| CARBON TETRACHLORIDE | 3/10 | 30 | 0.3 | 0.36 | 4.4 | J | 490 | | MT-SS18 | MT-SS18-0-2 | 190.8 | 57.4 | 154.0 |
| ISOPROPYLBENZENE | 3/10 | 30 | 0.13 | 0.16 | 0.24 | J | 8.3 | J | MT-SS18 | MT-SS18-0-2 | 3.2 | 1.0 | 2.6 |
| O-XYLENE | 3/10 | 30 | 0.29 | 0.35 | 0.46 | J | 49 | J | MT-SS18 | MT-SS18-0-2 | 17.3 | 5.3 | 15.4 |
| TOLUENE | 3/10 | 30 | 0.22 | 19 | 0.28 | J | 0.49 | J | MT-SS17 | MT-SS17-0-2 | 0.4 | 1.1 | 2.9 |
| 1,2,4-TRIMETHYLBENZENE | 2/10 | 20 | 0.53 | 0.65 | 2.3 | J | 34 | J | MT-SS18 | MT-SS18-0-2 | 18.2 | 3.9 | 10.6 |
| 2-BUTANONE | 2/10 | 20 | 1.1 | 48 | 3 | J | 4.1 | J | MT-SS17 | MT-SS17-0-2 | 3.6 | 3.6 | 7.3 |
| 4-ISOPROPYLTOLUENE | 2/10 | 20 | 0.17 | 0.21 | 1.3 | J | 26 | J | MT-SS18 | MT-SS18-0-2 | 13.7 | 2.8 | 8.2 |
| ACETONE | 2/10 | 20 | 5.2 | 190 | 42 | | 65 | | MT-SS17 | MT-SS17-8-10 | 53.5 | 22.2 | 33.6 |
| CARBON DISULFIDE | 2/10 | 20 | 0.36 | 13 | 3 | J | 4.2 | J | MT-SS18 | MT-SS18-8-10 | 3.6 | 1.5 | 2.3 |
| CHLOROFORM | 2/10 | 20 | 0.24 | 0.29 | 32 | | 55 | J | MT-SS18 | MT-SS18-0-2 | 43.5 | 8.8 | 19.1 |
| ETHYLBENZENE | 2/10 | 20 | 0.21 | 0.26 | 0.34 | J | 27 | J | MT-SS18 | MT-SS18-0-2 | 13.7 | 2.8 | 8.5 |
| SEC-BUTYLBENZENE | 2/10 | 20 | 0.15 | 5.3 | 0.54 | J | 0.64 | J | MT-SS17 | MT-SS17-0-2 | 0.6 | 0.4 | 0.8 |
| TOTAL XYLENES | 2/10 | 20 | 0.55 | 0.66 | 2.5 | J | 120 | J | MT-SS18 | MT-SS18-0-2 | 61.3 | 12.5 | 37.8 |
| BENZENE | 1/10 | 10 | 0.19 | 13 | 5.4 | | 5.4 | | MT-SS18 | MT-SS18-8-10 | 5.4 | 1.3 | 2.5 |
| CIS-1,2-DICHLOROETHENE | 1/10 | 10 | 0.29 | 7.7 | 5.2 | | 5.2 | | MT-SS17 | MT-SS17-0-2 | 5.2 | 1.0 | 1.9 |
| M+P-XYLENES | 1/10 | 10 | 0.98 | 1.2 | 67 | J | 67 | J | MT-SS18 | MT-SS18-0-2 | 67.0 | 7.2 | 21.0 |
| METHYLENE CHLORIDE | 1/10 | 10 | 0.56 | 86 | 0.71 | J | 0.71 | J | MT-SS18 | MT-SS18-8-10 | 0.7 | 4.9 | 13.4 |
| NAPHTHALENE | 1/10 | 10 | 0.16 | 1.6 | 23 | J | 23 | J | MT-SS18 | MT-SS18-0-2 | 23.0 | 2.5 | 7.2 |
| TERT-BUTYLBENZENE | 1/10 | 10 | 0.24 | 7.3 | 0.45 | J | 0.45 | J | MT-SS18 | MT-SS18-8-10 | 0.5 | 0.5 | 1.1 |

**Table H-2**

**Statistical Analysis for Soil**
**Main Terminal, Martin State Airport, Middle River, Maryland**


| Chemical | Frequency of Detection | | Mininum Non Detected | Maximum Non Detected | Mininum Detected | | Maximum Detected | | Location of Maximum Detected | Sample of Maximum Detected | Mean of Positive Detects | Mean of All Samples | Standard Deviation |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number | Percent | | | | | | | | | | | |
| TRICHLOROETHENE | 1/10 | 10 | 0.34 | 11 | 110 | | 110 | | MT-SS21 | MT-SS21-8-10 | 110.0 | 11.7 | 34.6 |
| VINYL CHLORIDE | 1/10 | 10 | 0.32 | 20 | 2.5 | J | 2.5 | J | MT-SS17 | MT-SS17-0-2 | 2.5 | 1.4 | 3.1 |
| **SEMIVOLATILES (ug/kg)** | | | | | | | | | | | | | |
| FLUORANTHENE | 8/10 | 80 | 3.9 | 4 | 5.7 | J | 510 | | MT-SS17 | MT-SS17-8-10 | 95.9 | 77.1 | 162.5 |
| PYRENE | 7/10 | 70 | 3.9 | 4 | 4.8 | J | 450 | | MT-SS17 | MT-SS17-8-10 | 104.5 | 73.8 | 146.6 |
| BAP EQUIVALENT-HALFND | 6/10 | 60 | 3.9 | 4 | 8.2315 | | 465.65 | | MT-SS17 | MT-SS17-8-10 | 122.7 | 74.4 | 152.8 |
| BAP EQUIVALENT-POS | 6/10 | 60 | 3.9 | 4 | 6.067 | | 465.65 | | MT-SS17 | MT-SS17-8-10 | 121.3 | 73.5 | 153.2 |
| BENZO(A)PYRENE | 6/10 | 60 | 3.9 | 4 | 4.9 | J | 310 | | MT-SS17 | MT-SS17-8-10 | 82.6 | 50.4 | 102.0 |
| BENZO(B)FLUORANTHENE | 6/10 | 60 | 3.9 | 4 | 5.6 | J | 440 | | MT-SS17 | MT-SS17-8-10 | 110.9 | 67.3 | 143.3 |
| BENZO(A)ANTHRACENE | 5/10 | 50 | 3.8 | 4 | 6 | J | 240 | | MT-SS17 | MT-SS17-8-10 | 75.3 | 38.6 | 78.2 |
| CHRYSENE | 5/10 | 50 | 1.3 | 1.3 | 7 | J | 350 | | MT-SS17 | MT-SS17-8-10 | 107.3 | 54.0 | 115.1 |
| DI-N-BUTYL PHTHALATE | 5/10 | 50 | 18 | 18 | 20 | J | 35 | J | MT-SS17 | MT-SS17-0-2 | 28.4 | 18.7 | 11.1 |
| PHENANTHRENE | 5/10 | 50 | 3.8 | 4 | 6.9 | J | 150 | | MT-SS17 | MT-SS17-8-10 | 48.5 | 25.2 | 47.9 |
| BENZO(G,H,I)PERYLENE | 4/10 | 40 | 3.8 | 4 | 5.4 | J | 280 | | MT-SS17 | MT-SS17-8-10 | 107.6 | 44.2 | 91.9 |
| BENZO(K)FLUORANTHENE | 4/10 | 40 | 3.9 | 4 | 4.9 | J | 230 | | MT-SS17 | MT-SS17-8-10 | 85.3 | 35.3 | 74.8 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 4/10 | 40 | 22 | 34 | 25 | J | 58 | J | MT-SS17 | MT-SS17-8-10 | 38.8 | 23.4 | 15.6 |
| INDENO(1,2,3-CD)PYRENE | 3/10 | 30 | 3.8 | 4 | 10 | | 230 | | MT-SS17 | MT-SS17-8-10 | 112.7 | 35.2 | 74.7 |
| ACENAPHTHYLENE | 2/10 | 20 | 3.8 | 4 | 15 | | 17 | | MT-SS17 | MT-SS17-8-10 | 16.0 | 4.8 | 5.9 |
| ANTHRACENE | 2/10 | 20 | 3.8 | 4 | 25 | | 39 | | MT-SS17 | MT-SS17-8-10 | 32.0 | 8.0 | 13.1 |
| DIBENZO(A,H)ANTHRACENE | 2/10 | 20 | 3.8 | 4 | 28 | | 62 | | MT-SS17 | MT-SS17-8-10 | 45.0 | 10.6 | 19.8 |
| 2,4-DIMETHYLPHENOL | 1/10 | 10 | 23 | 24 | 25 | J | 25 | J | MT-SS17 | MT-SS17-0-2 | 25.0 | 13.1 | 4.2 |
| 2-METHYLNAPHTHALENE | 1/10 | 10 | 3.8 | 4 | 18 | | 18 | | MT-SS17 | MT-SS17-0-2 | 18.0 | 3.6 | 5.1 |
| ACETOPHENONE | 1/10 | 10 | 11 | 11 | 25 | J | 25 | J | MT-SS17 | MT-SS17-0-2 | 25.0 | 7.5 | 6.2 |
| FLUORENE | 1/10 | 10 | 3.8 | 4 | 10 | | 10 | | MT-SS17 | MT-SS17-8-10 | 10.0 | 2.8 | 2.5 |
| NAPHTHALENE | 1/10 | 10 | 3.8 | 4 | 30 | | 30 | | MT-SS17 | MT-SS17-0-2 | 30.0 | 4.8 | 8.9 |
| PHENOL | 1/10 | 10 | 31 | 33 | 37 | J | 37 | J | MT-SS17 | MT-SS17-0-2 | 37.0 | 18.2 | 6.6 |
| **PETROLEUM HYDROCARBONS** | | | | | | | | | | | | | |
| TPH (C06-C10) (ug/kg) | 2/10 | 20 | 54 | 56 | 130 | | 380 | | MT-SS18 | MT-SS18-0-2 | 255.0 | 72.9 | 112.6 |
| TPH (C10-C32) (mg/kg) | 2/10 | 20 | 11 | 11 | 28 | | 240 | | MT-SS17 | MT-SS17-0-2 | 134.0 | 31.2 | 73.7 |
| **METALS (mg/kg)** | | | | | | | | | | | | | |
| ARSENIC | 10/10 | 100 | | | 1 | J | 6.7 | | MT-SS18 | MT-SS18-0-2 | 4.6 | 4.6 | 1.8 |
| BARIUM | 10/10 | 100 | | | 9.3 | J | 20 | J | MT-SS17 | MT-SS17-0-2 | 14.3 | 14.3 | 3.7 |
| CHROMIUM | 10/10 | 100 | | | 19 | | 29 | | MT-SS18 | MT-SS18-0-2 | 22.9 | 22.9 | 3.0 |
| COBALT | 10/10 | 100 | | | 1.8 | L | 14 | | MT-SS21 | MT-SS21-8-10 | 9.6 | 9.6 | 4.3 |
| COBALT | 10/10 | 100 | | | 1.8 | L | 14 | | MT-SS20 | MT-SS20-0-2 | 9.6 | 9.6 | 4.3 |
| COBALT | 10/10 | 100 | | | 1.8 | L | 14 | | MT-SS19 | MT-SS19-8-10 | 9.6 | 9.6 | 4.3 |
| COPPER | 10/10 | 100 | | | 4.7 | | 38 | | MT-SS20 | MT-SS20-8-10 | 22.5 | 22.5 | 10.8 |
| LEAD | 10/10 | 100 | | | 1 | J | 7.8 | | MT-SS17 | MT-SS17-0-2 | 4.6 | 4.6 | 2.1 |
| NICKEL | 10/10 | 100 | | | 3.3 | J | 52 | J | MT-SS19 | MT-SS19-8-10 | 31.2 | 31.2 | 16.4 |
| VANADIUM | 10/10 | 100 | | | 14 | | 80 | | MT-SS18 | MT-SS18-0-2 | 38.1 | 38.1 | 17.2 |

## Table H-2

## Statistical Analysis for Soil
## Main Terminal, Martin State Airport, Middle River, Maryland
## Page 3 of 3

| Chemical | Frequency of Detection | | Mininum Non Detected | Maximum Non Detected | Mininum Detected | | Maximum Detected | | Location of Maximum Detected | Sample of Maximum Detected | Mean of Positive Detects | Mean of All Samples | Standard Deviation |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number | Percent | | | | | | | | | | | |
| ZINC | 10/10 | 100 | | | 4.9 | J | 79 | | MT-SS17 | MT-SS17-0-2 | 50.0 | 50.0 | 28.2 |
| BERYLLIUM | 9/10 | 90 | 0.44 | 0.44 | 1.6 | | 5.8 | | MT-SS21 | MT-SS21-8-10 | 3.0 | 2.8 | 1.5 |
| SELENIUM | 1/10 | 10 | 0.42 | 0.5 | 0.98 | J | 0.98 | J | MT-SS18 | MT-SS18-0-2 | 1.0 | 0.3 | 0.2 |
| **TCLP METALS (mg/l)** | | | | | | | | | | | | | |
| BARIUM | 1/1 | 100 | | | 0.17 | J | 0.17 | J | MT-TCLP | MT-TCLP-8-10 | 0.2 | 0.2 | |
| CADMIUM | 1/1 | 100 | | | 0.0013 | J | 0.0013 | J | MT-TCLP | MT-TCLP-8-10 | 0.0 | 0.0 | |
| CHROMIUM | 1/1 | 100 | | | 0.0047 | J | 0.0047 | J | MT-TCLP | MT-TCLP-8-10 | 0.0 | 0.0 | |
| LEAD | 1/1 | 100 | | | 0.05 | J | 0.05 | J | MT-TCLP | MT-TCLP-8-10 | 0.1 | 0.1 | |

Footnotes:
For non-detects, 1/2 sample quantitation limit was used as a proxy concentration.
1/2 the detection limit was used for B qualified data.
NA - Not applicable, there are an insufficient number of samples to calculate statistics.

Associated Samples

| | | |
|---|---|---|
| MT-SS17-0-2 | MT-SS19-8-10 | MT-TCLP-8-10 |
| MT-SS17-8-10 | MT-SS20-0-2 | |
| MT-SS18-0-2 | MT-SS20-8-10 | |
| MT-SS18-8-10 | MT-SS21-0-2 | |
| MT-SS19-0-2 | MT-SS21-8-10 | |

**Table H-4**

**Statistical Analysis for Groundwater**
**Main Terminal, Martin State Airport, Middle River, Maryland**


| Chemical | Frequency of Detection | | Mininum Non Detected | Maximum Non Detected | Mininum Detected | | Maximum Detected | | Location of Maximum Detected |
|---|---|---|---|---|---|---|---|---|---|
| | Number | Percent | | | | | | | |
| **VOLATILES (UG/L)** | | | | | | | | | |
| CARBON DISULFIDE | 6/12 | 50 | 0.13 | 0.65 | 0.16 | J | 2.9 | | MT-MW09S |
| ACETONE | 4/12 | 33 | 1.1 | 1.1 | 1.9 | J | 90 | | MT-MW02S |
| BENZENE | 3/12 | 25 | 0.13 | 0.13 | 0.13 | J | 87 | | MT-MW02S |
| CHLOROFORM | 3/12 | 25 | 0.16 | 0.8 | 0.36 | J | 11 | | MT-MW12S |
| CHLOROMETHANE | 3/12 | 25 | 0.3 | 1.5 | 0.35 | J | 0.47 | J | MT-MW06S |
| TOLUENE | 3/12 | 25 | 0.13 | 0.65 | 0.16 | J | 0.29 | J | MT-MW01S |
| 1,2,3-TRIMETHYLBENZENE | 1/12 | 8 | 0.0059 | 0.0059 | 2.4 | J | 2.4 | J | MT-MW02S |
| 1,2,4-TRIMETHYLBENZENE | 1/12 | 8 | 0.12 | 0.12 | 9.2 | | 9.2 | | MT-MW02S |
| 1,2-DICHLOROETHANE | 1/12 | 8 | 0.22 | 0.22 | 3.8 | J | 3.8 | J | MT-MW02S |
| 4-ISOPROPYLTOLUENE | 1/12 | 8 | 0.12 | 0.12 | 1.6 | J | 1.6 | J | MT-MW02S |
| 4-METHYL-2-PENTANONE | 1/12 | 8 | 0.32 | 0.32 | 2.5 | J | 2.5 | J | MT-MW02S |
| CARBON TETRACHLORIDE | 1/12 | 8 | 0.13 | 0.65 | 0.34 | J | 0.34 | J | MT-MW12S |
| CIS-1,2-DICHLOROETHENE | 1/12 | 8 | 0.17 | 0.17 | 4.8 | J | 4.8 | J | MT-MW02S |
| ETHYLBENZENE | 1/12 | 8 | 0.17 | 0.17 | 180 | | 180 | | MT-MW02S |
| ISOPROPYLBENZENE | 1/12 | 8 | 0.13 | 0.13 | 31 | | 31 | | MT-MW02S |
| M+P-XYLENES | 1/12 | 8 | 0.24 | 0.24 | 50 | | 50 | | MT-MW02S |
| N-PROPYLBENZENE | 1/12 | 8 | 0.14 | 0.14 | 9.7 | | 9.7 | | MT-MW02S |
| NAPHTHALENE | 1/12 | 8 | 0.24 | 1.2 | 0.54 | J | 0.54 | J | MT-MW12S |
| O-XYLENE | 1/12 | 8 | 0.14 | 0.14 | 22 | | 22 | | MT-MW02S |
| SEC-BUTYLBENZENE | 1/12 | 8 | 0.13 | 0.13 | 0.75 | J | 0.75 | J | MT-MW02S |
| TOTAL XYLENES | 1/12 | 8 | 0.28 | 0.28 | 72 | | 72 | | MT-MW02S |
| TRICHLOROETHENE | 1/12 | 8 | 0.17 | 0.85 | 0.35 | J | 0.35 | J | MT-MW05S |
| **TIC VOLATILES (UG/L)** | | | | | | | | | |
| 1,3,5-TRIMETHYLBENZENE | 1/1 | 100 | | | 47 | | 47 | | MT-MW02S |
| 1-ETHYL-2-METHYL BENZENE | 1/1 | 100 | | | 7.3 | NJ | 7.3 | NJ | MT-MW02S |
| 2,4-PENTANEDIONE, 3-METHYL- | 1/1 | 100 | | | 7.8 | NJ | 7.8 | NJ | MT-MW02S |
| 3-PENTANOL, 2,2-DIMETHYL- | 1/1 | 100 | | | 6.5 | NJ | 6.5 | NJ | MT-MW02S |
| 3-PENTANONE, 2,4-DIMETHYL- | 1/1 | 100 | | | 12 | NJ | 12 | NJ | MT-MW02S |
| BENZENE, 1-ETHYL-3-METHYL- | 1/1 | 100 | | | 10 | NJ | 10 | NJ | MT-MW02S |
| BUTANE | 1/1 | 100 | | | 1.4 | NJ | 1.4 | NJ | MT-MW01S |
| BUTANE, 2-METHYL- | 1/1 | 100 | | | 2.5 | NJ | 2.5 | NJ | MT-MW05S |
| CYCLOBUTANE, METHYL- | 1/1 | 100 | | | 9.8 | NJ | 9.8 | NJ | MT-MW02S |
| CYCLOHEXANE | 1/1 | 100 | | | 45 | | 45 | | MT-MW02S |
| INDANE | 1/1 | 100 | | | 8.1 | NJ | 8.1 | NJ | MT-MW02S |
| METHYLCYCLOPENTANE | 1/1 | 100 | | | 19 | NJ | 19 | NJ | MT-MW02S |
| **SEMIVOLATILES (UG/L)** | | | | | | | | | |
| BIS(2-ETHYLHEXYL)PHTHALATE | 5/6 | 83 | 0.76 | 0.76 | 0.79 | J | 1.5 | J | MT-MW11S/MT-MW09S |
| CAPROLACTAM | 2/6 | 33 | 0.76 | 0.78 | 0.78 | J | 1.7 | J | MT-MW09S |

**Table H-4**

**Statistical Analysis for Groundwater**
**Main Terminal, Martin State Airport, Middle River, Maryland**


| Chemical | Frequency of Detection | | Mininum Non Detected | Maximum Non Detected | Mininum Detected | | Maximum Detected | | Location of Maximum Detected |
|---|---|---|---|---|---|---|---|---|---|
| | Number | Percent | | | | | | | |
| **METALS (UG/L)** | | | | | | | | | |
| BARIUM | 12/12 | 100 | | | 20 | | 120 | | MT-MW11S/MT-MW02S |
| COBALT | 12/12 | 100 | | | 2.3 | | 540 | | MT-MW06S |
| NICKEL | 12/12 | 100 | | | 5.9 | | 1200 | | MT-MW06S |
| BERYLLIUM | 11/12 | 92 | 0.2 | 0.2 | 0.41 | J | 81 | | MT-MW06S |
| ARSENIC | 10/12 | 83 | 0.4 | 0.4 | 0.56 | J | 4.7 | J | MT-MW01S |
| ZINC | 10/12 | 83 | 12 | 12 | 43 | | 2500 | | MT-MW05S |
| LEAD | 9/12 | 75 | 0.26 | 1.3 | 0.29 | J | 2.6 | | MT-MW03S |
| VANADIUM | 8/12 | 67 | 0.44 | 0.44 | 0.53 | J | 6 | J | MT-MW03S |
| ANTIMONY | 7/12 | 58 | 0.13 | 0.13 | 0.15 | J | 1.9 | J | MT-MW09S |
| CHROMIUM | 7/12 | 58 | 0.71 | 0.71 | 1.2 | J | 21 | | MT-MW11S |
| COPPER | 7/12 | 58 | 0.6 | 2.2 | 2.8 | K | 46 | | MT-MW06S |
| CADMIUM | 4/12 | 33 | 0.13 | 0.13 | 0.14 | J | 2 | | MT-MW06S |
| SELENIUM | 4/12 | 33 | 0.57 | 0.57 | 0.62 | J | 1.2 | J | MT-MW06S |
| MERCURY | 2/12 | 17 | 0.12 | 0.12 | 0.12 | J | 0.39 | | MT-MW07S |
| **FILTERED METALS (UG/L)** | | | | | | | | | |
| BARIUM | 12/12 | 100 | | | 17 | | 120 | | MT-MW01S |
| COBALT | 12/12 | 100 | | | 1.1 | | 530 | | MT-MW06S |
| NICKEL | 12/12 | 100 | | | 1.7 | J | 1200 | | MT-MW06S |
| BERYLLIUM | 9/12 | 75 | 0.2 | 0.2 | 0.36 | J | 80 | | MT-MW06S |
| ZINC | 9/12 | 75 | 8.3 | 12 | 43 | | 2500 | | MT-MW05S |
| ARSENIC | 8/12 | 67 | 0.4 | 0.4 | 0.52 | J | 5 | K | MT-MW01S |
| ANTIMONY | 6/12 | 50 | 0.13 | 0.21 | 0.13 | J | 3 | | MT-MW09S |
| CADMIUM | 4/12 | 33 | 0.13 | 0.13 | 0.23 | J | 2.1 | | MT-MW06S |
| COPPER | 3/12 | 25 | 0.29 | 1.5 | 35 | | 48 | | MT-MW06S |
| LEAD | 2/12 | 17 | 0.18 | 1.3 | 1 | K | 2.3 | | MT-MW06S |
| TUNGSTEN | 1/6 | 17 | 0.37 | 0.37 | 0.78 | J | 0.78 | J | MT-MW04S |
| VANADIUM | 2/12 | 17 | 0.44 | 0.44 | 0.65 | J | 0.89 | J | MT-MW11S |
| SELENIUM | 1/12 | 8 | 0.57 | 0.57 | 0.63 | J | 0.63 | J | MT-MW06S |
| **MISCELLANEOUS PARAMETERS (UG/L)** | | | | | | | | | |
| PERCHLORATE | 1/6 | 17 | 0.082 | 0.082 | 0.16 | J | 0.16 | J | MT-MW06S |
| **PETROLEUM HYDROCARBONS (UG/L)** | | | | | | | | | |
| TPH (C06-C10) | 1/12 | 8 | 36 | 64 | 1400 | | 1400 | | MT-MW02S |
| TPH (C10-C32) | 1/12 | 8 | 240 | 540 | 3700 | | 3700 | | MT-MW02S |

**Table H-4**

**Statistical Analysis for Groundwater**
**Main Terminal, Martin State Airport, Middle River, Maryland**


| Chemical | Sample of Maximum Detected | Mean of Positive Detects | Mean of All Samples | Standard Deviation |
|---|---|---|---|---|
| **VOLATILES (UG/L)** | | | | |
| CARBON DISULFIDE | MT-MW09S-082112 | 1.000 | 0.554 | 0.825 |
| ACETONE | MT-MW02S-043012 | 24.375 | 8.492 | 25.684 |
| BENZENE | MT-MW02S-043012 | 29.677 | 7.468 | 25.052 |
| CHLOROFORM | MT-MW12S-082112 | 3.993 | 1.085 | 3.128 |
| CHLOROMETHANE | MT-MW06S-042412 | 0.397 | 0.262 | 0.191 |
| TOLUENE | MT-MW01S-042512 | 0.240 | 0.130 | 0.104 |
| 1,2,3-TRIMETHYLBENZENE | MT-MW02S-043012 | 2.400 | 0.203 | 0.692 |
| 1,2,4-TRIMETHYLBENZENE | MT-MW02S-043012 | 9.200 | 0.822 | 2.638 |
| 1,2-DICHLOROETHANE | MT-MW02S-043012 | 3.800 | 0.418 | 1.065 |
| 4-ISOPROPYLTOLUENE | MT-MW02S-043012 | 1.600 | 0.188 | 0.445 |
| 4-METHYL-2-PENTANONE | MT-MW02S-043012 | 2.500 | 0.355 | 0.675 |
| CARBON TETRACHLORIDE | MT-MW12S-082112 | 0.340 | 0.110 | 0.104 |
| CIS-1,2-DICHLOROETHENE | MT-MW02S-043012 | 4.800 | 0.478 | 1.361 |
| ETHYLBENZENE | MT-MW02S-043012 | 180.000 | 15.078 | 51.937 |
| ISOPROPYLBENZENE | MT-MW02S-043012 | 31.000 | 2.643 | 8.930 |
| M+P-XYLENES | MT-MW02S-043012 | 50.000 | 4.277 | 14.399 |
| N-PROPYLBENZENE | MT-MW02S-043012 | 9.700 | 0.873 | 2.780 |
| NAPHTHALENE | MT-MW12S-082112 | 0.540 | 0.195 | 0.176 |
| O-XYLENE | MT-MW02S-043012 | 22.000 | 1.898 | 6.331 |
| SEC-BUTYLBENZENE | MT-MW02S-043012 | 0.750 | 0.122 | 0.198 |
| TOTAL XYLENES | MT-MW02S-043012 | 72.000 | 6.128 | 20.744 |
| TRICHLOROETHENE | MT-MW05S-042512 | 0.350 | 0.135 | 0.119 |
| **TIC VOLATILES (UG/L)** | | | | |
| 1,3,5-TRIMETHYLBENZENE | MT-MW02S-043012 | 47.000 | 47.000 | |
| 1-ETHYL-2-METHYL BENZENE | MT-MW02S-043012 | 7.300 | 7.300 | |
| 2,4-PENTANEDIONE, 3-METHYL- | MT-MW02S-043012 | 7.800 | 7.800 | |
| 3-PENTANOL, 2,2-DIMETHYL- | MT-MW02S-043012 | 6.500 | 6.500 | |
| 3-PENTANONE, 2,4-DIMETHYL- | MT-MW02S-043012 | 12.000 | 12.000 | |
| BENZENE, 1-ETHYL-3-METHYL- | MT-MW02S-043012 | 10.000 | 10.000 | |
| BUTANE | MT-MW01S-042512 | 1.400 | 1.400 | |
| BUTANE, 2-METHYL- | MT-MW05S-042512 | 2.500 | 2.500 | |
| CYCLOBUTANE, METHYL- | MT-MW02S-043012 | 9.800 | 9.800 | |
| CYCLOHEXANE | MT-MW02S-043012 | 45.000 | 45.000 | |
| INDANE | MT-MW02S-043012 | 8.100 | 8.100 | |
| METHYLCYCLOPENTANE | MT-MW02S-043012 | 19.000 | 19.000 | |
| **SEMIVOLATILES (UG/L)** | | | | |
| BIS(2-ETHYLHEXYL)PHTHALATE | MT-MW11S-082112/MT-MW09S-082112 | 1.160 | 1.030 | 0.434 |
| CAPROLACTAM | MT-MW09S-082112 | 1.240 | 0.668 | 0.530 |

## Table H-4

## Statistical Analysis for Groundwater
## Main Terminal, Martin State Airport, Middle River, Maryland
## Page 4 of 4

| Chemical | Sample of Maximum Detected | Mean of Positive Detects | Mean of All Samples | Standard Deviation |
|---|---|---|---|---|
| **METALS (UG/L)** | | | | |
| BARIUM | MT-MW11S-082112/MT-MW02S-043012 | 72.750 | 72.750 | 37.266 |
| COBALT | MT-MW06S-042412 | 175.983 | 175.983 | 188.764 |
| NICKEL | MT-MW06S-042412 | 315.408 | 315.408 | 400.019 |
| BERYLLIUM | MT-MW06S-042412 | 14.107 | 12.940 | 24.168 |
| ARSENIC | MT-MW01S-042512 | 1.522 | 1.302 | 1.249 |
| ZINC | MT-MW05S-042512 | 677.600 | 565.667 | 807.442 |
| LEAD | MT-MW03S-042512 | 1.063 | 0.892 | 0.788 |
| VANADIUM | MT-MW03S-042512 | 1.849 | 1.306 | 1.686 |
| ANTIMONY | MT-MW09S-082112 | 0.660 | 0.412 | 0.586 |
| CHROMIUM | MT-MW11S-082112 | 5.543 | 3.381 | 5.829 |
| COPPER | MT-MW06S-042412 | 20.929 | 12.533 | 17.384 |
| CADMIUM | MT-MW06S-042412 | 0.935 | 0.355 | 0.590 |
| SELENIUM | MT-MW06S-042412 | 0.838 | 0.469 | 0.302 |
| MERCURY | MT-MW07S-082212 | 0.255 | 0.093 | 0.095 |
| **FILTERED METALS (UG/L)** | | | | |
| BARIUM | MT-MW01S-042512 | 70.667 | 70.667 | 38.580 |
| COBALT | MT-MW06S-042412 | 170.175 | 170.175 | 190.492 |
| NICKEL | MT-MW06S-042412 | 306.058 | 306.058 | 403.079 |
| BERYLLIUM | MT-MW06S-042412 | 16.516 | 12.412 | 24.039 |
| ZINC | MT-MW05S-042512 | 742.333 | 558.054 | 822.700 |
| ARSENIC | MT-MW01S-042512 | 1.501 | 1.068 | 1.333 |
| ANTIMONY | MT-MW09S-082112 | 0.827 | 0.449 | 0.855 |
| CADMIUM | MT-MW06S-042412 | 0.913 | 0.348 | 0.606 |
| COPPER | MT-MW06S-042412 | 42.333 | 10.817 | 19.217 |
| LEAD | MT-MW06S-042412 | 1.650 | 0.416 | 0.661 |
| TUNGSTEN | MT-MW04S-042412 | 0.780 | 0.284 | 0.243 |
| VANADIUM | MT-MW11S-082112 | 0.770 | 0.312 | 0.220 |
| SELENIUM | MT-MW06S-042412 | 0.630 | 0.314 | 0.100 |
| **MISCELLANEOUS PARAMETERS (UG/L)** | | | | |
| PERCHLORATE | MT-MW06S-042412 | 0.160 | 0.061 | 0.049 |
| **PETROLEUM HYDROCARBONS (UG/L)** | | | | |
| TPH (C06-C10) | MT-MW02S-043012 | 1400.000 | 140.667 | 396.618 |
| TPH (C10-C32) | MT-MW02S-043012 | 3700.000 | 486.250 | 1013.193 |

Footnotes:
For non-detects, 1/2 sample quantitation limit was used as a proxy concentration.
1/2 the detection limit was used for B qualified data.

Associated Samples

| | | |
|---|---|---|
| MT-MW01S-042512 | MT-MW10S-082212 | 20120822 |
| MT-MW02S-043012 | MT-MW11S-082112 | 20120822 |
| MT-MW03S-042512 | MT-MW12S-082112 | 20120821 |
| MT-MW04S-042412 | 20120425 | 20120822 |
| MT-MW05S-042512 | 20120430 | 20120821 |
| MT-MW06S-042412 | 20120425 | 20120821 |
| MT-MW07S-082212 | 20120424 | |
| MT-MW08S-082212 | 20120425 | |
| MT-MW09S-082112 | 20120424 | |