Technical Memorandum: July 2013 Surface Water Sampling Results for Frog Mortar Creek Martin State Airport 701 Wilson Point Road Middle River, Maryland

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APPENDICES

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ACRONYMS

AWQC	ambient water quality criteria
BTAG	Biological Technical Advisory Group
BTEX	benzene, toluene, ethylbenzene, and xylenes
cis-1,2-DCE	*cis*-1,2-dichloroethene
COC	chain(s) of custody
cVOC	chlorinated volatile organic compound
DRA	Dump Road Area
GIS	geographic information system
IDW	investigation-derived waste
Lockheed Martin	Lockheed Martin Corporation
MDE	Maryland Department of the Environment
mg/L	milligram(s) per liter
MSA	Martin State Airport
µg/L	microgram(s) per liter
NRWQC	National Recommended Water Quality Criteria
PDF	portable document format
PPE	personal protective equipment
RI	remedial investigation
SVOC	semivolatile organic compound
TCE	trichloroethene (also known as trichloroethylene)
TB	trip blank
Tetra Tech	Tetra Tech, Inc.
USEPA	United States Environmental Protection Agency
VC	vinyl chloride
VOC	volatile organic compound

Section 1
Introduction

On behalf of Lockheed Martin Corporation (Lockheed Martin), Tetra Tech, Inc. (Tetra Tech) has prepared this technical memorandum to detail work conducted according to the *2013 Surface Water Sampling Work Plan* (Tetra Tech, 2013*a*) for the Dump Road Area (DRA) at Martin State Airport (MSA) in Middle River, Maryland (see Figure 1-1). This technical memorandum presents the analytical results for surface water samples collected from Frog Mortar Creek on July 18, 2013. The sampling objectives were to:

- provide additional data for surface water quality to determine the concentrations and spatial distributions of volatile organic compounds (VOCs) and other chemicals of potential concern in Frog Mortar Creek that may emanate from a groundwater plume at the Dump Road Area of Martin State Airport
- evaluate the interaction between Dump Road Area shallow groundwater and Frog Mortar Creek
- provide information to assess human health risks for recreational users of Frog Mortar Creek
- provide information to update modeling for shallow groundwater flow patterns and discharge to Frog Mortar Creek

This technical memorandum is organized as follows:

<u>Section 2—Site Background and Previous Investigations</u>: Briefly describes the site and references where summaries of previous Frog Mortar Creek investigations are available for review.

<u>Section 3—Investigation Approach and Methodology</u>: Presents the technical approach of surface water sampling and describes the field methodology.

<u>Section 4—Results</u>: Presents the investigation findings.

<u>Section 5—Summary</u>: Summarizes the investigation approach and findings.

<u>Section 6—References</u>: Cites references used to compile this memorandum.

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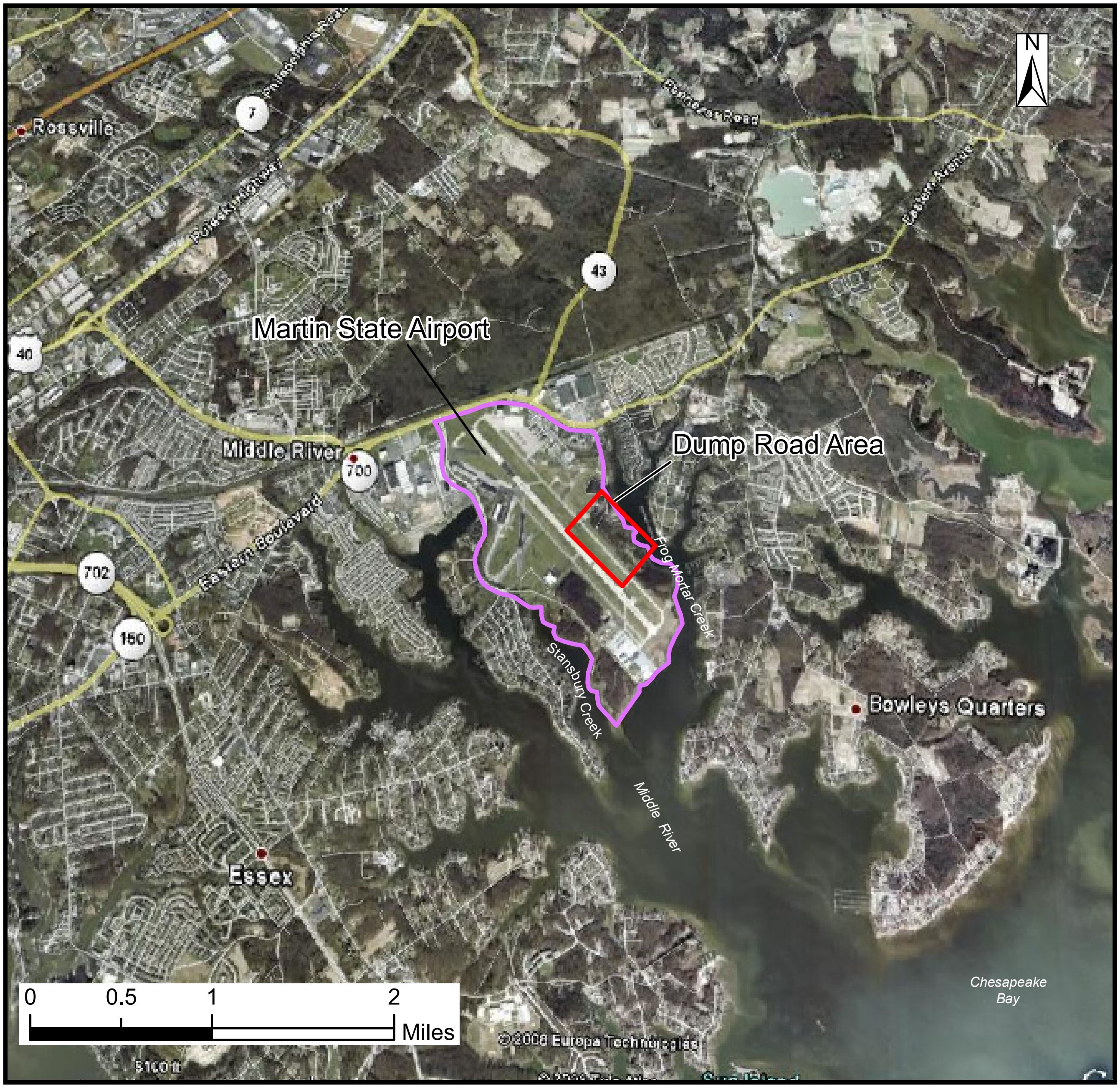

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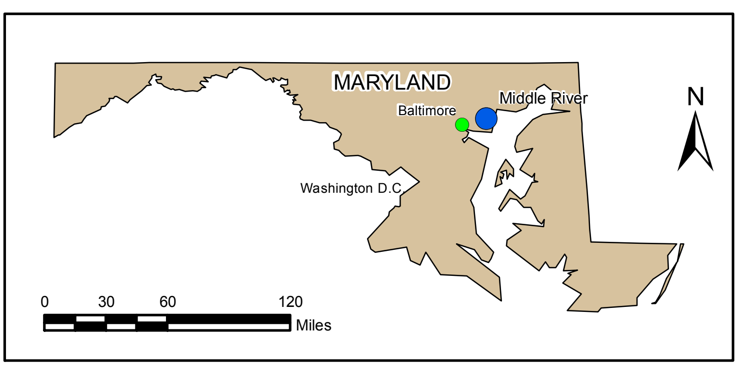

FIGURE 1-1

MARTIN STATE AIRPORT, DUMP ROAD AREA, AND FROG MORTAR CREEK LOCATION MAP

Frog Mortar Creek
Lockheed Martin, Martin State Airport
Middle River, Maryland

DATE MODIFIED: 1/9/12	CREATED BY: MP

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Section 2
Site Background and Previous Investigations

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 (Figure 2-1), both of which are tidal tributaries of Chesapeake Bay. The area under investigation is Frog Mortar Creek, which is east of and adjacent to the Dump Road Area (DRA) site at MSA (Figures 2-1 and 2-2). Frog Mortar Creek is hydraulically downgradient of the DRA and directly receives groundwater discharging from the DRA.

Detailed environmental studies have been conducted at the DRA since the early 1990s, when the Maryland Aviation Administration removed drums discovered near Taxiway Tango in 1991 (Figure 2-2). The DRA currently consists mostly of open meadows, mowed grass, and heavily wooded areas; however, the DRA also includes a portion of Taxiway Tango and extends to the airport runway. Taxiway Tango is a concrete and asphalt taxiway currently used by the Maryland Air National Guard for military aircraft operations. The airport runway is also used by the Maryland Air National Guard, as well as state-owned and private aircraft. Previous environmental studies at MSA demonstrate that soil, pond sediment, and groundwater at the DRA have been impacted by volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), and metals resulting from prior dumping and backfilling.

The primary constituents detected in DRA groundwater at concentrations exceeding state groundwater standards are the chlorinated VOCs (cVOCs) trichloroethene (TCE; also known as trichloroethylene), *cis*-1,2-dichloroethene (*cis*-1,2-DCE), and vinyl chloride (VC), as well as several metals. TCE, *cis*-1,2-DCE, VC, and several metals have also been detected in surface water samples from Frog Mortar Creek. Surface water samples have been collected from Frog Mortar Creek since 1997, and multiple rounds of samples have been collected annually since 2010. Summaries of Frog Mortar Creek studies conducted from 1997–2012, and details of the area's physical setting, land use, physiography, and surface and subsurface conditions (i.e., soils, hydrology, and geology) are in the *2012 Surface Water Sampling Report for Frog Mortar Creek* (Tetra Tech, 2013*b*), and are not repeated herein.

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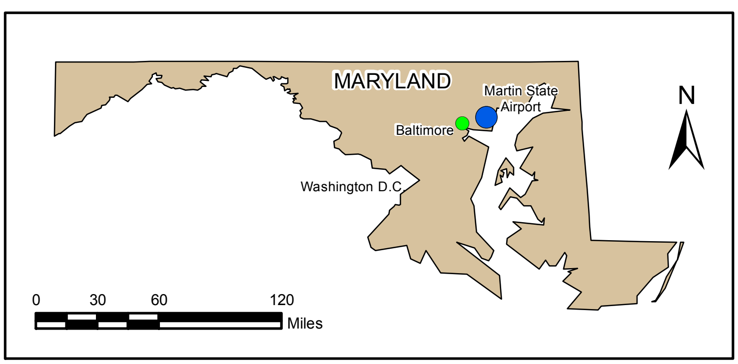

FIGURE 2-1

MARTIN STATE AIRPORT AND SURROUNDING FEATURES

Frog Mortar Creek
Lockheed Martin, Martin State Airport
Middle River, Maryland

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FIGURE 2-2

AREAS OF CONCERN
DUMP ROAD AND RUNWAY AREA

LEGEND

POND

MARYLAND AIR NATIONAL GUARD BOUNDARY

Frog Mortar Creek
Lockheed Martin, Martin State Airport
Middle River, Maryland

0 60 120 240 Feet

N

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Section 3
Investigation Approach and Methodology

Previous surface water sampling data for Frog Mortar Creek support the need for additional investigations to assess the extent to which surface water is affected by groundwater discharged from the Dump Road Area (DRA). Data obtained were used to evaluate chemical concentrations with respect to United States Environmental Protection Agency (USEPA) or Maryland screening levels. Screening criteria included USEPA ambient water quality criteria (AWQC) and site-specific screening levels. The volatile organic compounds (VOCs) trichloroethene (TCE), *cis*-1,2-dichloroethene (*cis*-1,2-DCE), and vinyl chloride (VC) have previously been detected in Frog Mortar Creek surface water samples at concentrations exceeding ecological and/or human health screening criteria; these analytes have also been detected in groundwater at the DRA.

The July 2013 sampling event is the third of six rounds of surface water sampling to be conducted in 2013. The July sampling round was to assess water quality in midsummer, when increased water recreation in Frog Mortar Creek is expected. The next sampling round is scheduled for August 2013.

3.1 SURFACE WATER SAMPLING

3.1.1 Surface Water Sampling and Chemical Analyses

Forty surface water samples were collected from Frog Mortar Creek near the DRA site on July 18, 2013. Sampling locations are shown in Figure 3-1. Four samples were collected along each of nine transects spaced approximately 350 feet apart along the western shoreline of Frog Mortar Creek. These transects are designated MSA-SW37, MSA-SW38, MSA-SW39, MSA-SW40, MSA-SW41, MSA-SW42, MSA-SW43, MSA-SW44, and MSA-SW45. Four samples were also collected along a transect extending out from the eastern shoreline of the creek at 3301 Edwards Lane; this transect is designated EL-SW01 (see Figure 3-1).

Along each transect, one sample was collected near the shoreline ("A" sample), one was collected approximately 50 feet from the shoreline ("B" sample), one was collected approximately 100 feet from the shoreline ("C" sample), and one was collected approximately 200 feet from the shoreline ("D" sample). Each was collected approximately one foot below the water surface. All surface water sampling locations were surveyed (in feet) according to the Maryland State Plane North American Datum 1983 using a handheld global positioning system receiver.

Frog Mortar Creek western shoreline transect samples (MSA-SW37 through MSA-SW45) were analyzed for VOCs by SW846 Method 8260B, for metals (filtered in the field) by SW846 Methods 6020A/7470A, for hardness by Standard Method SM 2340B, and for hexavalent chromium by USEPA Method 218.6. The eastern shoreline transect samples (i.e., EL-SW01) were analyzed for VOCs only. Analytical parameters for the Frog Mortar Creek samples are in Table 3-1.

Water quality parameters (including temperature, pH, specific conductance, salinity, turbidity, dissolved oxygen, and oxidation reduction potential) were measured and recorded, along with the depth of water at all surface water sampling locations, at the time of sampling. Tidal gauge water measurements were also obtained from the staff gauge at 3301 Edwards Lane before and at the completion of the sampling event. All information was documented on the sample log sheets in Appendix A.

Surface water samples were collected as grab samples using direct fill sampling techniques. All samples were collected from approximately one foot below the water surface. The VOC samples were collected using a stainless steel discrete interval sampler (also known as a bacon bomb sampler). The sampler was lowered to approximately one foot below the water surface, the check valve was engaged to allow the sampler to fill, the sampler was then brought to the surface, and the water was removed through a valve to fill three laboratory cleaned, hydrochloric acid preserved, 40-milliliter sample vials. The discrete interval sampler was cleaned after each use by rinsing with potable water. Equipment was cleaned after each sample was collected. No decontamination fluids were collected during this sampling event.

Using a different method, hexavalent chromium samples were collected in pre-cleaned bottles containing no sample preservatives (e.g., no nitric acid for preserving metal samples, etc.). Each bottle was submerged approximately one foot below the water surface and allowed to fill. Hexavalent chromium samples must be analyzed within 24 hours of collection; therefore, these samples were expedited to the laboratory so they could be analyzed within the prescribed holding time.

Field filtered metals samples (i.e., samples for metals other than hexavalent chromium) were collected using a peristaltic pump and preserved in the field with nitric acid to the appropriate pH level. No duplicates were collected during the July 2013 sampling round. A trip blank (one per cooler containing VOC samples) was submitted for VOC analysis for quality assurance/quality control purposes.

3.1.2 Documentation

A master site logbook was maintained as an overall record of field activities for the site. Sample documentation includes completed chain of custody (COC) forms and surface water specific sample log sheets. COC forms are standardized to summarize and document pertinent sample information, such as sample identification and type, matrix, date and time of collection, preservation, and the analysis requested. Sample custody procedures document sample acquisition and integrity. Surface water sample log sheets are in Appendix A. COC forms are provided along with the data validation reports in Appendix B.

3.1.3 Sample Nomenclature and Handling

Surface water samples collected from transects SW37 through SW45 were identified with a unique sample identification tag. Surface water samples were labeled with an “MSA-SW” prefix, followed by the sample number, the profile location (“A,” “B,” “C,” or “D”), and the six digit sampling date. Similarly, surface water samples collected from the Edwards Lane transect were identified with an “EL-SW” prefix, the profile location (“A,” “B,” “C,” or “D”), and the six digit sampling date. For example, the surface water sample collected on July 18, 2013 from MSA-SW37A was labeled MSA-SW37A-071813. The trip blank was labeled with a “TB” prefix followed by the sample’s six digit submittal date (e.g., TB-071813).

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. COC protocols were used throughout sample handling to assure the evidentiary integrity of sample containers. These protocols demonstrate that the samples were handled and transferred in a manner that would prevent or detect possible tampering.

Sample containers were released under signature from the laboratory and were accepted under signature by the sampler(s), or other individual(s) responsible for maintaining custody, until the sample containers are transferred to the sampler(s). Transport containers returning to the laboratory were sealed with strapping tape and a tamper resistant custody seal. The custody seal contains the signature of the individual releasing the transport container, along with the date and time.

3.1.4 Equipment Decontamination

This project required minimal equipment decontamination. Both dedicated and disposable equipment were used for surface water sampling to reduce decontamination activities and eliminate possible sample cross contamination. The discrete interval sampler was cleaned after each use by rinsing with potable water. Equipment was cleaned over the (creek) water after each sample had been collected. No decontamination fluids were collected during this sampling event.

3.1.5 Waste Management

Investigation-derived waste (IDW) consisted of personal protective equipment (PPE) and disposable equipment (filters, tubing, etc.) generated during field sampling. PPE IDW was brushed off, placed in trash bags along with the disposable equipment, and disposed of in a facility trash receptacle designated by facility personnel.

3.2 DATA MANAGEMENT

Laboratory data handling procedures met the requirements of the laboratory subcontract. All analytical and field data are maintained in project files, including copies of COC forms, sample log forms, sampling location maps, and documentation of quality assurance and data corrections.

3.2.1 Data Tracking and Control

A cradle to grave sample tracking system was used from the beginning to the end of the sampling event. The field operations leader began and coordinated sample tracking before mobilizing the sampling team to the field. Preprinted sample container labels generated before fieldwork began were reviewed to ensure that they were accurate and adhered to work plan requirements. The project manager coordinated with the analytical laboratory to ensure that the laboratory was aware of the number and type of samples and analyses that would be submitted that day.

During field sampling, the field operations leader forwarded the COC to a designated project assistant and to the laboratory. The project assistant confirmed that the COC provided the information required by the work plan. This allowed early detection of errors made in the field so that adjustments could be made before sample analyses. After successful completion of all requested analyses, the laboratory submitted an electronic deliverable for each sample delivery group. When all electronic deliverables had been received from the laboratory, the project assistant checked the laboratory submittal to determine whether the laboratory had performed all analyses requested. All analyses requested for this project were performed.

3.2.2 Sample Information

Data from field measurements were recorded using appropriate sample log sheets and then summarized in tabular form, as were the raw instrument data from the laboratory. The field operations leader verified field data daily; laboratory data were verified by the group supervisor and then by the laboratory's quality control/documentation department. Sample log sheets are in Appendix A.

3.2.3 Project Data Compilation

The analytical laboratory generated an Adobe *Acrobat*® portable document format (PDF) file of the analytical data package, as well as an electronic database deliverable. 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. All data, such as units of measure and chemical nomenclature, were corrected as necessary to be consistent with the project database.

3.2.4 Geographic Information System

Data management systems for this investigation consist of a relational database and geographic information system (GIS) to manage environmental information pertaining to Martin State Airport (MSA). The relational database stores chemical, geological, hydrogeological, and other environmental data collected during environmental investigations. The GIS is created from the relational database and contains subsets of the larger data pool. The GIS allows environmental data to be posted onto base maps to graphically represent project information. Compiled sampling, chemical, and positional data were then incorporated into the GIS.

3.3 DATA REVIEW

Data from the laboratory were entered into a sample database and evaluated against risk based criteria. Data validation (to evaluate data completeness, holding times, calibrations, precision, accuracy, laboratory and field blank contamination, and detection limits) was completed concurrent with the data evaluation. These reviews were based on the *USEPA Region III Modifications to the National Functional Guidelines for Data Review* (USEPA, 1993 and 1994) and the specifics of the analytical methods used. Data from this sampling event consist of surface water sample chemical results. Data validation reports and COC are in Appendix B (on compact disc) as PDF files. Appendix C includes a table of all July 2013 Frog Mortar Creek surface water sample analytical data, including non-detects.

Collectively, these data are acceptable for their intended uses (site characterization and risk assessment), except for data qualified as unreliable (UR flag). For this validation, the data qualifiers (i.e., flags) below were applied to the chemical results presented in this report. The first two flags appear on the chemical results tables in Section 4, and all flags appear in Appendices B and C:

B Sample concentration is less than five times the blank concentration.

J The analyte is considered present in the sample. However, the value is estimated and may not be accurate or precise.

U Not detected; the analyte is considered not detected at the reported value.

UR The result is considered qualitatively or quantitatively unreliable.

UJ The analyte is not detected. However, the quantitation or detection limit may be inaccurate or imprecise.

Common laboratory or field contaminants may occasionally be detected in samples. Analysis of quality control blanks and other internal laboratory blanks (e.g., method blanks, etc.) determines the significance of the analytical results versus possible laboratory or field contaminants. Common laboratory contaminants associated with VOC analyses include acetone, methylene chloride, and 2-butanone. The *National Functional Guidelines* for contract laboratories

(USEPA, 1993 and 1994) require that any compound (other than common laboratory contaminants) detected in both the sample and an associated blank must be qualified as such (i.e., with a "*B*" flag) when the sample concentration is less than five times the blank concentration. For the common laboratory contaminants listed above, results must be qualified with a "*B*" flag when the sample concentration is less than 10 times the blank concentration. Data flagged with "*B*" qualifiers include samples for cadmium, chromium, cobalt, copper, lead, nickel, vanadium, and zinc.

TABLE 3-1

LIST OF SAMPLES AND CHEMICAL ANALYSES PERFORMED FOR SURFACE WATER SAMPLING-JULY 2013 FROG MORTAR CREEK LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

Sample ID	Analyses Performed (Method)			
	Volatile Organic Compounds (USEPA 8260B)	Dissolved Metals (USEPA 6020A/7470A)	Hexavalent Chromium (USEPA 218.6)	Hardness (SM 2340B)
MSA-SW37A	X	X	X	X
MSA-SW37B	X	X	X	X
MSA-SW37C	X	X	X	X
MSA-SW37D	X	X	X	X
MSA-SW38A	X	X	X	X
MSA-SW38B	X	X	X	X
MSA-SW38C	X	X	X	X
MSA-SW38D	X	X	X	X
MSA-SW39A	X	X	X	X
MSA-SW39B	X	X	X	X
MSA-SW39C	X	X	X	X
MSA-SW39D	X	X	X	X
MSA-SW40A	X	X	X	X
MSA-SW40B	X	X	X	X
MSA-SW40C	X	X	X	X
MSA-SW40D	X	X	X	X
MSA-SW41A	X	X	X	X
MSA-SW41B	X	X	X	X
MSA-SW41C	X	X	X	X
MSA-SW41D	X	X	X	X
MSA-SW42A	X	X	X	X
MSA-SW42B	X	X	X	X
MSA-SW42C	X	X	X	X
MSA-SW42D	X	X	X	X
MSA-SW43A	X	X	X	X
MSA-SW43B	X	X	X	X
MSA-SW43C	X	X	X	X
MSA-SW43D	X	X	X	X
MSA-SW44A	X	X	X	X
MSA-SW44B	X	X	X	X
MSA-SW44C	X	X	X	X
MSA-SW44D	X	X	X	X
MSA-SW45A	X	X	X	X
MSA-SW45B	X	X	X	X
MSA-SW45C	X	X	X	X
MSA-SW45D	X	X	X	X
EL-SW01A	X			
EL-SW01B	X			
EL-SW01C	X			
EL-SW01D	X			

SM - standard method
USEPA - United States Environmental Protection Agency

Map Document: (K:\GProject\MartinStateAirport-LMC\MapDocs\MXD\Maps\MSA Surface Water Samples July 2013.mxd)
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FIGURE 3-1

JULY 2013 SURFACE WATER SAMPLING LOCATIONS FROG MORTAR CREEK

LEGEND

- JULY 2013 SURFACE WATER SAMPLE LOCATION (1 FOOT BELOW WATER SURFACE)
- GROUNDWATER MONITORING WELL
- ABANDONED WELL
- MARYLAND AIR NATIONAL GUARD BOUNDARY
- POND

Frog Mortar Creek
Lockheed Martin, Martin State Airport
Middle River, Maryland

0 75 150 300 Feet

N

DATE MODIFIED: 8/15/13

CREATED BY: MP

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Section 4
Results

4.1 SURFACE WATER DATA AND SCREENING CRITERIA

Validated chemical data from the Frog Mortar Creek surface water samples collected in July 2013 were used to generate a statistical summary table (Table 4-1) and a table summarizing positive detections of chemical analytes (Table 4-2). Samples were analyzed for volatile organic compounds (VOCs), dissolved (i.e., filtered) metals, hexavalent chromium, and hardness. Table 4-2, compares surface water sampling results to several applicable screening criteria, including:

- United States Environmental Protection Agency (USEPA) Region 3 Biological Technical Advisory Group (BTAG) freshwater screening benchmarks (USEPA, 2006)
- USEPA National Recommended Water Quality Criteria (NRWQC) for acute and chronic aquatic organism exposures, and NRWQC for human health aquatic organism consumption (USEPA, 2009)
- Maryland Ambient Water Quality Criteria (AWQC) for acute and chronic aquatic organism exposures, and AWQC for human health aquatic organism consumption (*Code of Maryland Regulations*, 2012)
- site-specific screening levels for swimming developed for trichloroethene (TCE; also known as trichloroethylene), *cis*-1,2-dichloroethene (*cis*-1,2-DCE), and vinyl chloride (VC) only. The swimming criteria are 10 micrograms per liter (µg/L) for TCE, 300 µg/L for *cis*-1,2-DCE, and 0.7 µg/L for VC.

The NRWQC, AWQC, and most BTAG screening levels for metals represent concentrations of dissolved metals in the water column; therefore, these criteria are used to screen against filtered (dissolved) metals results. However, the BTAG screening levels for arsenic, mercury, molybdenum, selenium, and thallium are based on the total metals concentration in the water column. During the current surface water sampling round, only dissolved metals in surface water were analyzed; therefore, the dissolved results for these five metals are not directly comparable to BTAG criteria (which are developed for total metals). The NRWQC screening values for select dissolved metals (cadmium, chromium, copper, lead, nickel, silver, and zinc) were adjusted for hardness using a site-specific hardness value of 370 milligrams per liter (mg/L) (the lowest and most protective site value for the July results) using the methodology in *National Recommended Water Quality Criteria: 2002* (USEPA 2002).

Site-specific screening levels were developed by Lockheed Martin Corporation (Lockheed Martin) for TCE, *cis*-1,2-DCE, and VC to assess Frog Mortar Creek water quality with respect to recreational activities, and to protect the health of swimmers near the Dump Road Area (DRA) shoreline. The results from the July sampling are compared to these swimming criteria, in addition to comparison to the USEPA and Maryland criteria in Table 4-2, because they provide the most conservative (i.e., most protective) screening levels for Frog Mortar Creek.

Gray shading in Table 4-2 indicates a result that exceeds one or more of its surface water screening criteria. Figures 4-1 through 4-3 show the respective concentrations of TCE, *cis*-1,2-DCE, and VC detected in July 2013 Frog Mortar Creek samples. Appendix C presents the July 2013 analytical data, including non-detect results.

4.2 SURFACE WATER SAMPLING RESULTS

As shown in Tables 4-1 and 4-2, several VOCs and metals were detected in the July surface water samples. All data discussed herein share the “MSA” prefix; therefore, in this discussion and to increase readability, this prefix is dropped when referring to transects or samples (e.g., instance, “SW39” refers to transect MSA-SW39).

4.2.1 Volatile Organic Compounds

The chlorinated VOCs (cVOCs) most frequently detected in the samples are TCE, *cis*-1,2-DCE, and VC; these three VOCs are also the primary cVOCs detected in the DRA groundwater plume. Benzene, toluene, and xylenes (VOCs that are also in DRA groundwater) were detected in 10, 5, and 1 sample(s), respectively, at low concentrations in the current sampling event. Acetone was also detected in 12 of 40 samples. However, because acetone is a common laboratory contaminant and is not considered a contaminant of concern in DRA groundwater, its presence is considered an artifact of laboratory analysis, even though acetone was not reported as detected in laboratory blanks.

Of the three primary cVOCs, TCE was detected in 38 of 40 samples at concentrations ranging from 0.24*J* µg/L to 3.6 µg/L (Figure 4-1, and Tables 4-1 and 4-2). *cis*-1,2-DCE was detected in 30 of 40 samples (Figure 4-2, and Tables 4-1 and 4-2) at concentrations ranging from 0.32*J* µg/L to 5.4 µg/L. VC was detected less frequently (in 25 of 40 samples), at concentrations ranging from 0.22*J* µg/L to 1 µg/L (Figure 4-3, and Tables 4-1 and 4-2). In July 2013, all surface water cVOCs were detected at concentrations less than their respective AWQC, and less than their BTAG freshwater screening levels (Table 4-2). VC (1 µg/L) exceeded its site-specific screening level for swimming (0.7 µg/L) at only one location (SW37A).

Benzene, toluene, ethylbenzene, and xylenes (BTEX) (common volatile components of petroleum fuel) are also site groundwater chemicals of concern. Ethylbenzene was not detected in any sample collected during this sampling event. Benzene was detected at low concentrations (0.13*J* µg/L to 0.19*J* µg/L) at 10 locations. These concentrations are more than two orders of magnitude less than benzene's lowest screening criterion (51 µg/L, NRWQC for human health consumption of organism only). Toluene was detected at five locations, also at low concentrations, ranging from 0.13*J* µg/L to 0.63*J* µg/L. These concentrations are approximately one order of magnitude less than toluene's lowest screening criterion (2 µg/L) established by BTAG. Total xylenes (0.63*J* µg/L) were detected at just one location (SW41D), at a low concentration more than one order of magnitude below the lowest BTAG criterion for xylenes (13 µg/L).

In prior sampling episodes, surface water samples from transects east of the DRA (SW38, SW40, and SW41) have had the highest TCE concentrations. In July 2013, TCE concentrations were highest at transect locations along the main portion of the DRA VOC plume: SW43A (3.6 µg/L), SW41A (1.7 µg/L), SW38D (1.5 µg/L), and SW43B (1.4 µg/L). These concentrations are lower compared to the June 2013 results, when the highest detected TCE concentrations were at SW40A (18 µg/L) and SW40B (7.2 µg/L).

July 2013 TCE concentrations detected on the western shore of Frog Mortar Creek vary over the sampling area by approximately one order of magnitude (Figure 4-1), ranging from 0.24*J* µg/L (SW39D) to 3.6 µg/L (SW43A). Samples from the southernmost transects (SW39, SW45, and SW44) and from EL-SW01 (adjacent to Edwards Lane) had the lowest TCE concentrations overall; detected concentrations in these transects were all less than 1 µg/L. TCE concentrations were highest in samples collected near the western shoreline at transects SW43 and SW41, with concentrations decreasing with distance from the western shore of Frog Mortar Creek. No distribution pattern is apparent for TCE along the northernmost transects (SW37, SW42, SW40, and SW38). TCE concentrations in these transects range from 0.5*J* µg/L to 1.5 µg/L. Gradual and consistent decreases in TCE concentrations from transect to transect are evident south of SW43, where TCE concentrations range from not detected to 0.88*J* µg/L.

July 2013 detections of *cis*-1,2-DCE were widespread, with the highest concentrations detected in samples collected from transects SW43 and SW41 (Figure 4-2). The highest concentrations were detected at SW43A (5.4 µg/L), SW43B (1.3 µg/L), and SW41A (1.1 µg/L); the remaining detected concentrations were less than 1 µg/L. Similar to the distribution of TCE, concentrations of *cis*-1,2-DCE along the western shore typically decrease with increasing distance from the shoreline in transects SW43 and SW41. No distribution pattern is apparent for *cis*-1,2-DCE along the northernmost transects (SW37, SW42, SW40, and SW38); *cis*-1,2-DCE concentrations in these transects range from 0.38*J* µg/L to 0.65*J* µg/L. Concentrations of *cis*-1,2-DCE gradually and consistently decrease southward from transect SW43. Similar to TCE, July 2013 concentrations of *cis*-1,2-DCE are less than the concentrations detected in June 2013. In the June 2013 sampling event, the highest concentrations of *cis*-1,2-DCE were collected near the western shoreline at locations SW38A (11 µg/L) and SW40A (5.5 µg/L).

VC was detected in 25 of 40 samples collected in July 2013 (Table 4-1 and Figure 4-3), with the highest concentration at SW37A (1 µg/L). This concentration exceeds the VC site-specific screening level for swimming (0.7 µg/L). In general, VC concentrations in July 2013 were less than those detected in the June 2013 sampling round; the highest detected VC concentration during that round is 17 µg/L (at SW38A).

4.2.2 Metals

All July 2013 dissolved arsenic concentrations are above the human health consumption of organism screening criterion, but less than the ecological and AWQC criteria, with concentrations ranging from 1.7*J* µg/L to 2.7*J* µg/L. The range of dissolved arsenic concentrations detected during this sampling episode is similar to the range for June 2013 results (1.3 µg/L to 2.2 µg/L). Dissolved barium concentrations (21*J* µg/L to 24*J* µg/L) exceed the BTAG ecological screening level (4 µg/L) in all samples. These concentrations are approximately the same as those detected in June 2013 (range: 21 µg/L to 25 µg/L).

4.2.3 Hexavalent Chromium

Hexavalent chromium was detected in 22 of 36 samples at low concentrations (0.011*J* µg/L to 0.124 µg/L), nearly 100 times below its lowest NRWQC screening level (11 µg/L).

4.3 UPCOMING 2013 SAMPLING ROUNDS

Lockheed Martin Corporation will next monitor surface water for these same 40 locations on Frog Mortar Creek in August 2013.

TABLE 4-1

STATISTICAL SUMMARY OF ANALYTES DETECTED IN SURFACE WATER SAMPLES-JULY 2013
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

Chemical	Frequency of detection		Mininum non-detect concentration	Maximum non-detect concentration	Mininum detected concentration	Maximum detected concentration	Sample location(s) with maximum detected concentration[1]	Mean of all samples[2]	Mean of positive detects[3]	Standard deviation
	Number	Percent								
Voltaile organic compounds (µg/L)										
TRICHLOROETHENE	38/40	95	0.17	0.17	0.24 J	3.6	MSA-SW43A	0.86	0.90	0.58
CIS-1,2-DICHLOROETHENE	30/40	75	0.17	0.17	0.32 J	5.4	MSA-SW43A	0.54	0.70	0.83
VINYL CHLORIDE	25/40	63	0.22	0.22	0.22 J	1	MSA-SW37A	0.24	0.32	0.16
ACETONE	12/40	30	1.1	1.1	1.1 J	2.9 J	EL-SW01C	0.97	1.96	0.73
BENZENE	10/40	25	0.13	0.13	0.13 J	0.19 J	MSA-SW41D	0.08	0.14	0.04
TOLUENE	5/40	13	0.13	0.13	0.13 J	0.63 J	MSA-SW41D	0.10	0.35	0.11
CARBON DISULFIDE	3/40	8	0.13	0.13	0.14 J	0.2 J	EL-SW01A	0.07	0.16	0.03
1,2,4-TRIMETHYLBENZENE	1/40	3	0.12	0.12	0.17 J	0.17 J	MSA-SW41D	0.06	0.17	0.02
M+P-XYLENES	1/40	3	0.24	0.24	0.42 J	0.42 J	MSA-SW41D	0.13	0.42	0.05
O-XYLENE	1/40	3	0.14	0.14	0.21 J	0.21 J	MSA-SW41D	0.07	0.21	0.02
TOTAL XYLENES	1/40	3	0.28	0.28	0.63 J	0.63 J	MSA-SW41D	0.15	0.63	0.08
Dissolved (filtered) metals (µg/L)										
ARSENIC	36/36	100			1.7 J	2.7 J	MSA-SW37B	2.21	2.21	0.22
BARIUM	36/36	100			21	24	MSA-SW37C,41A,37B,42C,40B,38D	22.69	22.69	0.82
MOLYBDENUM	36/36	100			1.6 J	1.8 J	MSA-SW-40B,37B,42C,44D,37C	1.70	1.70	0.05
CHROMIUM	20/36	56	0.24	1.7	0.23 J	0.69 J	MSA-SW37B	0.28	0.34	0.16
NICKEL	20/36	56	1.2	2.2	1.2 J	2	MSA-SW37B	1.11	1.42	0.39
ZINC	20/36	56	3.1	8.1	2.7 J	8.8 J	MSA-SW37C	3.76	4.74	1.66
VANADIUM	16/36	44	2.9	3.8	2.6 J	4 J	MSA-SW44D	2.49	3.49	0.95
COPPER	11/36	31	3.1	8.1	0.41 J	4.8	MSA-SW45D	2.97	3.50	1.05
CADMIUM	2/36	6	0.026	0.14	0.34 J	0.46 J	MSA-SW37B	0.04	0.40	0.09
COBALT	2/36	6	0.062	0.24	0.39 J	0.52 J	MSA-SW37B	0.08	0.46	0.10
LEAD	2/36	6	0.14	0.72	0.86 J	0.92 J	MSA-SW42B	0.14	0.89	0.19
MERCURY	1/36	3	0.12	0.12	0.12 J	0.12 J	MSA-SW42D	0.06	0.12	0.01
Miscellaneous metals (µg/L)										
HEXAVALENT CHROMIUM	22/36	61	0.02	0.02	0.011 J	0.124	MSA-SW45D	0.03	0.05	0.03
Miscellaneous parameters (mg/L)										
CALCIUM HARDNESS as $CaCO_3$	36/36	100			95	110	MSA-SW40B	99	99	2
HARDNESS as $CaCO_3$	36/36	100			370	410	MSA-SW40B	389	389	8
MAGNESIUM HARDNESS as $CaCO_3$	36/36	100			280	310	MSA-SW40B	290	290	7

Footnotes:

1 - All surface water samples were collected on July 18, 2013.
2 - One-half the sample quantitation limit was used as proxy for non-detects.
3 - One-half the detection limit was used for B qualified data.
$CaCO_3$ - calcium carbonate
EL - Edwards Lane
J - Positive result is estimated
µg/L - micrograms per liter
mg/L - milligrams per liter
SW - surface water

Associated Samples:

EL-SW01A-071813	MSA-SW38A-071813	MSA-SW40A-071813	MSA-SW42A-071813	MSA-SW44A-071813
EL-SW01B-071813	MSA-SW38B-071813	MSA-SW40B-071813	MSA-SW42B-071813	MSA-SW44B-071813
EL-SW01C-071813	MSA-SW38C-071813	MSA-SW40C-071813	MSA-SW42C-071813	MSA-SW44C-071813
EL-SW01D-071813	MSA-SW38D-071813	MSA-SW40D-071813	MSA-SW42D-071813	MSA-SW44D-071813
MSA-SW37A-071813	MSA-SW39A-071813	MSA-SW41A-071813	MSA-SW43A-071813	MSA-SW45A-071813
MSA-SW37B-071813	MSA-SW39B-071813	MSA-SW41B-071813	MSA-SW43B-071813	MSA-SW45B-071813
MSA-SW37C-071813	MSA-SW39C-071813	MSA-SW41C-071813	MSA-SW43C-071813	MSA-SW45C-071813
MSA-SW37D-071813	MSA-SW39D-071813	MSA-SW41D-071813	MSA-SW43D-071813	MSA-SW45D-071813

TABLE 4-2

DETECTED ANALYTES AND SCREENING CRITERIA FOR SURFACE WATER SAMPLES - JULY 2013
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

LOCATION SAMPLE ID SAMPLE DATE	National Recommended Ambient Water Quality Criteria(1) Freshwater		Ecological surface water screening level(2)	Human Health Consumption of Organism Only(1, 4)	Site-specific swimming screening levels(6)	EL-SW01A EL-SW01A-071813 20130718	EL-SW01B EL-SW01B-071813 20130718	EL-SW01C EL-SW01C-071813 20130718	EL-SW01D EL-SW01D-071813 20130718	MSA-SW-37A MSA-SW37A-071813 20130718	MSA-SW-37B MSA-SW37B-071813 20130718	MSA-SW-37C MSA-SW37C-071813 20130718	MSA-SW-37D MSA-SW37D-071813 20130718
	Acute	Chronic											
Volatile organic compounds (µg/L)													
1,2,4-TRIMETHYLBENZENE	NA	NA	33	NA	NA	--	--	--	--	--	--	--	--
ACETONE	NA	NA	1500	NA	NA	1.4 J	1.1 J	2.9 J	1.8 J	--	--	--	--
BENZENE	NA	NA	370	51	NA	--	--	--	--	--	--	--	--
CARBON DISULFIDE	NA	NA	0.92	NA	NA	0.2 J	0.15 J	--	--	--	--	--	--
CIS-1,2-DICHLOROETHENE	NA	NA	NA	NA	300	--	--	0.38 J	0.35 J	0.65 J	0.44 J	0.53 J	0.51 J
M+P-XYLENES	NA	NA	NA	NA	NA	--	--	--	--	--	--	--	--
O-XYLENE	NA	NA	NA	NA	NA	--	--	--	--	--	--	--	--
TOLUENE	NA	NA	2	15000	NA	--	--	--	--	--	--	--	--
TOTAL XYLENES	NA	NA	13	NA	NA	--	--	--	--	--	--	--	--
TRICHLOROETHENE	NA	NA	21	30(4)	10	0.59 J	0.64 J	0.66 J	0.64 J	0.5 J	0.64 J	1.1	0.83 J
VINYL CHLORIDE	NA	NA	930	530(4)	0.7	--	--	--	--	1	0.29 J	0.23 J	0.29 J
Dissolved (filtered) metals (µg/L)													
ARSENIC	340	150	NA(3)	1.4(4)	NA	NA	NA	NA	NA	2.4 J	2.7 J	2.5 J	2.3 J
BARIUM	NA	NA	4	NA	NA	NA	NA	NA	NA	23	24	24	23
CADMIUM	6.89(5)	0.61(5)	0.61(5)	NA	NA	NA	NA	NA	NA	0.14 B	0.46 J	0.094 B	0.037 B
CHROMIUM	1663.6(5)	216.4(5)	216.4(5)	NA	NA	NA	NA	NA	NA	0.38 J	0.69 J	0.47 J	0.27 J
COBALT	NA	NA	23	NA	NA	NA	NA	NA	NA	0.24 B	0.52 J	0.18 B	0.1 B
COPPER	46.1(5)	27.4(5)	27.4(5)	NA	NA	NA	NA	NA	NA	6.4 B	7.1 B	7.2 B	7 B
LEAD	259.2(5)	10.1(5)	10.1(5)	NA	NA	NA	NA	NA	NA	0.47 B	0.86 J	0.33 B	0.19 B
MERCURY	1.4	0.77	NA(3)	NA	NA	NA	NA	NA	NA	--	--	--	--
MOLYBDENUM	NA	NA	NA(3)	NA	NA	NA	NA	NA	NA	1.7 J	1.8 J	1.8 J	1.7 J
NICKEL	1416.3(5)	157.3(5)	157.3(5)	4600	NA	NA	NA	NA	NA	1.5 J	2	1.8 J	1.4 J
VANADIUM	NA	NA	20	NA	NA	NA	NA	NA	NA	3 B	3.2 B	3.2 B	3.1 B
ZINC	355.0(5)	358.0(5)	358.0(5)	26000	NA	NA	NA	NA	NA	3 J	4.4 J	8.8 J	4.2 J
Miscellaneous metals (µg/L)													
HEXAVALENT CHROMIUM	16	11	11	NA	NA	NA	NA	NA	NA	0.013 J	0.076	0.037	0.046
Miscellaneous parameters (mg/L)													
CALCIUM HARDNESS as $CaCO_3$	NA	NA	NA	NA	NA	NA	NA	NA	NA	98	98	100	99
HARDNESS as $CaCO_3$	NA	NA	NA	NA	NA	NA	NA	NA	NA	380	380	400	390
MAGNESIUM HARDNESS as $CaCO_3$	NA	NA	NA	NA	NA	NA	NA	NA	NA	290	280	290	290

TABLE 4-2

DETECTED ANALYTES AND SCREENING CRITERIA FOR SURFACE WATER SAMPLES - JULY 2013
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

LOCATION SAMPLE ID SAMPLE DATE	National Recommended Ambient Water Quality Criteria[1] Freshwater Acute	National Recommended Ambient Water Quality Criteria[1] Freshwater Chronic	Ecological surface water screening level[2]	Human Health Consumption of Organism Only[1, 4]	Site-specific swimming screening levels[6]	MSA-SW-38A MSA-SW38A-071813 20130718	MSA-SW-38B MSA-SW38B-071813 20130718	MSA-SW-38C MSA-SW38C-071813 20130718	MSA-SW-38D MSA-SW38D-071813 20130718	MSA-SW-39A MSA-SW39A-071813 20130718	MSA-SW-39B MSA-SW39B-071813 20130718	MSA-SW-39C MSA-SW39C-071813 20130718	MSA-SW-39D MSA-SW39D-071813 20130718
Volatile organic compounds (µg/L)													
1,2,4-TRIMETHYLBENZENE	NA	NA	33	NA	NA	--	--	--	--	--	--	--	--
ACETONE	NA	NA	1500	NA	NA	--	--	--	--	--	--	--	--
BENZENE	NA	NA	370	51	NA	--	--	--	--	--	--	--	--
CARBON DISULFIDE	NA	NA	0.92	NA	NA	--	--	--	--	--	--	--	--
CIS-1,2-DICHLOROETHENE	NA	NA	NA	NA	300	0.48 J	0.58 J	0.56 J	0.56 J	--	--	--	--
M+P-XYLENES	NA	NA	NA	NA	NA	--	--	--	--	--	--	--	--
O-XYLENE	NA	NA	NA	NA	NA	--	--	--	--	--	--	--	--
TOLUENE	NA	NA	2	15000	NA	--	--	--	--	--	--	--	--
TOTAL XYLENES	NA	NA	13	NA	NA	--	--	--	--	--	--	--	--
TRICHLOROETHENE	NA	NA	21	30[4]	10	0.84 J	0.94 J	1.1	1.5	--	--	0.26 J	0.24 J
VINYL CHLORIDE	NA	NA	930	530[4]	0.7	0.38 J	0.27 J	0.24 J	0.23 J	--	--	--	--
Dissolved (filtered) metals (µg/L)													
ARSENIC	340	150	NA[3]	1.4[4]	NA	2.2 J	2.2 J	2.2 J	2.3 J	1.7 J	1.7 J	1.8 J	1.8 J
BARIUM	NA	NA	4	NA	NA	23	23	23	24	21	21	22	22
CADMIUM	6.89[5]	0.61[5]	0.61[5]	NA	NA	0.067 B	0.066 B	--	0.034 B	--	--	0.028 B	0.028 B
CHROMIUM	1663.6[5]	216.4[5]	216.4[5]	NA	NA	0.24 J	0.27 J	0.23 J	0.38 J	0.35 J	0.23 J	0.23 J	0.28 J
COBALT	NA	NA	23	NA	NA	0.14 B	0.11 B	0.094 B	0.14 B	0.15 B	0.091 B	0.075 B	0.062 B
COPPER	46.1[5]	27.4[5]	27.4[5]	NA	NA	7.2 B	7.4 B	7.6 B	7.9 B	3.3 B	3.1 B	3.3 B	3.2 B
LEAD	259.2[5]	10.1[5]	10.1[5]	NA	NA	0.15 B	0.15 B	--	0.21 B	0.25 B	--	--	--
MERCURY	1.4	0.77	NA[3]	NA	NA	--	--	--	--	--	--	--	--
MOLYBDENUM	NA	NA	NA[3]	NA	NA	1.6 J	1.7 J	1.7 J	1.7 J	1.6 J	1.7 J	1.7 J	1.7 J
NICKEL	1416.3[5]	157.3[5]	157.3[5]	4600	NA	1.8 J	1.5 J	1.3 J	1.3 J	1.3 J	1.4 J	1.3 J	1.3 J
VANADIUM	NA	NA	20	NA	NA	3 B	3.2 B	3.3 B	3.3 B	2.9 B	3.2 B	3.3 B	3.3 B
ZINC	355.0[5]	358.0[5]	358.0[5]	26000	NA	4.2 J	5.8 J	3.2 J	6.1 J	7.4 J	3.3 J	4.7 J	2.7 J
Miscellaneous metals (µg/L)													
HEXAVALENT CHROMIUM	16	11	11	NA	NA	--	0.017 J	--	0.025	0.032	0.028	0.045	0.028
Miscellaneous parameters (mg/L)													
CALCIUM HARDNESS as $CaCO_3$	NA	NA	NA	NA	NA	97	100	99	100	95	99	99	100
HARDNESS as $CaCO_3$	NA	NA	NA	NA	NA	380	390	390	390	370	390	390	390
MAGNESIUM HARDNESS as $CaCO_3$	NA	NA	NA	NA	NA	280	290	290	290	280	290	290	290

TABLE 4-2

DETECTED ANALYTES AND SCREENING CRITERIA FOR SURFACE WATER SAMPLES - JULY 2013
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

LOCATION SAMPLE ID SAMPLE DATE	National Recommended Ambient Water Quality Criteria[1] Freshwater Acute	 Chronic	Ecological surface water screening level[2]	Human Health Consumption of Organism Only[1, 4]	Site-specific swimming screening levels[6]	MSA-SW-40A MSA-SW40A-071813 20130718	MSA-SW-40B MSA-SW40B-071813 20130718	MSA-SW-40C MSA-SW40C-071813 20130718	MSA-SW-40D MSA-SW40D-071813 20130718	MSA-SW-41A MSA-SW41A-071813 20130718	MSA-SW-41B MSA-SW41B-071813 20130718	MSA-SW-41C MSA-SW41C-071813 20130718	MSA-SW-41D MSA-SW41D-071813 20130718
Volatile organic compounds (µg/L)													
1,2,4-TRIMETHYLBENZENE	NA	NA	33	NA	NA	--	--	--	--	--	--	--	0.17 J
ACETONE	NA	NA	1500	NA	NA	--	--	--	--	--	--	--	--
BENZENE	NA	NA	370	51	NA	--	--	--	--	--	--	--	0.19 J
CARBON DISULFIDE	NA	NA	0.92	NA	NA	--	--	--	--	--	--	--	--
CIS-1,2-DICHLOROETHENE	NA	NA	NA	NA	300	0.5 J	0.55 J	0.38 J	0.38 J	1.1	0.51 J	0.53 J	0.49 J
M+P-XYLENES	NA	NA	NA	NA	NA	--	--	--	--	--	--	--	0.42 J
O-XYLENE	NA	NA	NA	NA	NA	--	--	--	--	--	--	--	0.21 J
TOLUENE	NA	NA	2	15000	NA	--	--	--	0.28 J	--	--	--	0.63 J
TOTAL XYLENES	NA	NA	13	NA	NA	--	--	--	--	--	--	--	0.63 J
TRICHLOROETHENE	NA	NA	21	30[4]	10	0.63 J	1.2	1.1	0.56 J	1.7	1.1	0.93 J	0.85 J
VINYL CHLORIDE	NA	NA	930	530[4]	0.7	0.33 J	0.32 J	0.24 J	--	0.37 J	0.33 J	0.22 J	0.24 J
Dissolved (filtered) metals (µg/L)													
ARSENIC	340	150	NA[3]	1.4[4]	NA	2.4 J	2.5 J	2.2 J	2.2 J	2.4 J	2.2 J	2.2 J	2.3 J
BARIUM	NA	NA	4	NA	NA	23	24	22	23	24	22	22	23
CADMIUM	6.89[5]	0.61[5]	0.61[5]	NA	NA	0.06 B	0.047 B	--	--	0.045 B	0.037 B	--	--
CHROMIUM	1663.6[5]	216.4[5]	216.4[5]	NA	NA	0.44 J	0.36 J	0.34 J	0.34 J	0.48 J	0.29 J	0.25 J	0.27 J
COBALT	NA	NA	23	NA	NA	0.15 B	0.093 B	0.076 B	0.09 B	0.21 B	0.087 B	0.071 B	0.091 B
COPPER	46.1[5]	27.4[5]	27.4[5]	NA	NA	3.8 B	3.5 B	3.7 B	3.8 B	4.4 B	3.6 B	3.8 B	3.9 B
LEAD	259.2[5]	10.1[5]	10.1[5]	NA	NA	0.2 B	--	--	--	0.28 B	--	--	--
MERCURY	1.4	0.77	NA[3]	NA	NA	--	--	--	--	--	--	--	--
MOLYBDENUM	NA	NA	NA[3]	NA	NA	1.7 J	1.8 J	1.6 J	1.7 J	1.7 J	1.7 J	1.7 J	1.7 J
NICKEL	1416.3[5]	157.3[5]	157.3[5]	4600	NA	1.3 J	1.3 J	1.3 J	1.4 J	1.4 J	1.3 J	1.3 J	1.2 J
VANADIUM	NA	NA	20	NA	NA	3.5 B	3.8 B	3.4 B	3.5 B	3.8 B	3.7 B	3.7 B	3.8 B
ZINC	355.0[5]	358.0[5]	358.0[5]	26000	NA	3.7 J	6.1 J	4.7 J	4.3 J	5.4 J	5.2 J	3.9 J	3.6 J
Miscellaneous metals (µg/L)													
HEXAVALENT CHROMIUM	16	11	11	NA	NA	--	--	--	0.059	0.041	--	--	0.034
Miscellaneous parameters (mg/L)													
CALCIUM HARDNESS as $CaCO_3$	NA	NA	NA	NA	NA	98	110	98	99	100	99	100	98
HARDNESS as $CaCO_3$	NA	NA	NA	NA	NA	380	410	380	390	390	390	390	380
MAGNESIUM HARDNESS as $CaCO_3$	NA	NA	NA	NA	NA	290	310	280	290	290	290	290	290

TABLE 4-2

DETECTED ANALYTES AND SCREENING CRITERIA FOR SURFACE WATER SAMPLES - JULY 2013
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

LOCATION SAMPLE ID SAMPLE DATE	National Recommended Ambient Water Quality Criteria[1] Freshwater		Ecological surface water screening level[2]	Human Health Consumption of Organism Only[1, 4]	Site-specific swimming screening levels[6]	MSA-SW-42A MSA-SW42A-071813 20130718	MSA-SW-42B MSA-SW42B-071813 20130718	MSA-SW-42C MSA-SW42C-071813 20130718	MSA-SW-42D MSA-SW42D-071813 20130718	MSA-SW-43A MSA-SW43A-071813 20130718	MSA-SW-43B MSA-SW43B-071813 20130718	MSA-SW-43C MSA-SW43C-071813 20130718	MSA-SW-43D MSA-SW43D-071813 20130718
	Acute	Chronic											
Volatile organic compounds (µg/L)													
1,2,4-TRIMETHYLBENZENE	NA	NA	33	NA	NA	--	--	--	--	--	--	--	--
ACETONE	NA	NA	1500	NA	NA	--	2.8 J	2.5 J	--	2.6 J	--	1.5 J	--
BENZENE	NA	NA	370	51	NA	--	0.13 J	--	--	0.13 J	--	0.13 J	0.13 J
CARBON DISULFIDE	NA	NA	0.92	NA	NA	--	--	--	--	--	--	--	--
CIS-1,2-DICHLOROETHENE	NA	NA	NA	NA	300	0.46 J	0.51 J	0.59 J	0.52 J	5.4	1.3	0.65 J	0.39 J
M+P-XYLENES	NA	NA	NA	NA	NA	--	--	--	--	--	--	--	--
O-XYLENE	NA	NA	NA	NA	NA	--	--	--	--	--	--	--	--
TOLUENE	NA	NA	2	15000	NA	--	--	--	--	--	--	--	--
TOTAL XYLENES	NA	NA	13	NA	NA	--	--	--	--	--	--	--	--
TRICHLOROETHENE	NA	NA	21	30[4]	10	0.68 J	0.91 J	1.3	1	3.6	1.4	1.1	0.72 J
VINYL CHLORIDE	NA	NA	930	530[4]	0.7	0.36 J	0.3 J	0.31 J	0.27 J	0.43 J	0.36 J	0.22 J	--
Dissolved (filtered) metals (µg/L)													
ARSENIC	340	150	NA[3]	1.4[4]	NA	2.4 J	2.5 J	2.4 J	2.2 J	2.2 J	2.1 J	2.3 J	2.3 J
BARIUM	NA	NA	4	NA	NA	23	23	24	22	23	22	22	23
CADMIUM	6.89[5]	0.61[5]	0.61[5]	NA	NA	0.12 B	0.34 J	0.072 B	0.046 B	0.065 B	0.04 B	0.037 B	0.026 B
CHROMIUM	1663.6[5]	216.4[5]	216.4[5]	NA	NA	1.7 B	0.61 B	0.37 B	0.31 B	0.32 B	0.28 B	0.27 B	0.29 B
COBALT	NA	NA	23	NA	NA	0.24 B	0.39 J	0.13 B	0.11 B	0.14 B	0.11 B	0.091 B	0.096 B
COPPER	46.1[5]	27.4[5]	27.4[5]	NA	NA	5.2 B	7 B	7.7 B	7.7 B	8.1 B	3.9	0.41 J	4
LEAD	259.2[5]	10.1[5]	10.1[5]	NA	NA	0.72 B	0.92 J	0.36 B	0.26 B	0.18 B	0.18 B	--	0.14 B
MERCURY	1.4	0.77	NA[3]	NA	NA	--	--	--	0.12 J	--	--	--	--
MOLYBDENUM	NA	NA	NA[3]	NA	NA	1.7 J	1.7 J	1.8 J	1.7 J	1.7 J	1.7 J	1.7 J	1.7 J
NICKEL	1416.3[5]	157.3[5]	157.3[5]	4600	NA	2.2 B	1.7 B	1.4 B	1.3 B	1.5 B	1.3 B	1.3 B	1.4 B
VANADIUM	NA	NA	20	NA	NA	2.6 J	3.1 J	3.3 J	3.3 J	3.5 J	3 J	3.5 J	3.7 J
ZINC	355.0[5]	358.0[5]	358.0[5]	26000	NA	7 B	4.2 B	6.1 B	8.1 B	5.8 B	5.4 B	4.6 B	3.5 B
Miscellaneous metals (µg/L)													
HEXAVALENT CHROMIUM	16	11	11	NA	NA	0.121	0.08	--	--	0.074	--	0.038	--
Miscellaneous parameters (mg/L)													
CALCIUM HARDNESS as $CaCO_3$	NA	NA	NA	NA	NA	95	96	100	98	97	98	100	100
HARDNESS as $CaCO_3$	NA	NA	NA	NA	NA	380	380	400	380	390	380	400	400
MAGNESIUM HARDNESS as $CaCO_3$	NA	NA	NA	NA	NA	280	280	300	290	290	290	300	300

TABLE 4-2

DETECTED ANALYTES AND SCREENING CRITERIA FOR SURFACE WATER SAMPLES - JULY 2013
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

LOCATION SAMPLE ID SAMPLE DATE	National Recommended Ambient Water Quality Criteria[1] Freshwater		Ecological surface water screening level[2]	Human Health Consumption of Organism Only[1, 4]	Site-specific swimming screening levels[6]	MSA-SW-44A MSA-SW44A-071813 20130718	MSA-SW-44B MSA-SW44B-071813 20130718	MSA-SW-44C MSA-SW44C-071813 20130718	MSA-SW-44D MSA-SW44D-071813 20130718	MSA-SW-45A MSA-SW45A-071813 20130718	MSA-SW-45B MSA-SW45B-071813 20130718	MSA-SW-45C MSA-SW45C-071813 20130718	MSA-SW-45D MSA-SW45D-071813 20130718
	Acute	Chronic											
Volatile organic compounds (µg/L)													
1,2,4-TRIMETHYLBENZENE	NA	NA	33	NA	NA	--	--	--	--	--	--	--	--
ACETONE	NA	NA	1500	NA	NA	--	--	--	2 J	2 J	1.2 J	1.7 J	--
BENZENE	NA	NA	370	51	NA	--	0.14 J	--	0.13 J	--	0.15 J	0.17 J	0.13 J
CARBON DISULFIDE	NA	NA	0.92	NA	NA	--	--	--	--	0.14 J	--	--	--
CIS-1,2-DICHLOROETHENE	NA	NA	NA	NA	300	0.45 J	0.41 J	0.46 J	--	0.32 J	--	--	--
M+P-XYLENES	NA	NA	NA	NA	NA	--	--	--	--	--	--	--	--
O-XYLENE	NA	NA	NA	NA	NA	--	--	--	--	--	--	--	--
TOLUENE	NA	NA	2	15000	NA	--	0.27 J	--	--	--	--	0.43 J	0.13 J
TOTAL XYLENES	NA	NA	13	NA	NA	--	--	--	--	--	--	--	--
TRICHLOROETHENE	NA	NA	21	30[4]	10	0.78 J	0.88 J	0.82 J	0.75 J	0.6 J	0.33 J	0.26 J	0.37 J
VINYL CHLORIDE	NA	NA	930	530[4]	0.7	--	0.23 J	0.23 J	0.22 J	--	--	--	--
Dissolved (filtered) metals (µg/L)													
ARSENIC	340	150	NA[3]	1.4[4]	NA	2.1 J	2.1 J	2.1 J	2.2 J	2.1 J	2.1 J	2.1 J	2.1 J
BARIUM	NA	NA	4	NA	NA	23	22	22	23	22	22	22	23
CADMIUM	6.89[5]	0.61[5]	0.61[5]	NA	NA	0.033 B	0.044 B	0.043 B	0.032 B	0.028 B	--	0.037 B	0.04 B
CHROMIUM	1663.6[5]	216.4[5]	216.4[5]	NA	NA	0.24 B	0.3 B	0.37 B	0.49 B	0.28 B	0.25 B	0.26 B	0.55 B
COBALT	NA	NA	23	NA	NA	0.092 B	0.082 B	0.075 B	0.15 B	0.083 B	0.068 B	0.063 B	0.074 B
COPPER	46.1[5]	27.4[5]	27.4[5]	NA	NA	3.6	3.6	3.4	3.8	3.3	3.8	3.9	4.8
LEAD	259.2[5]	10.1[5]	10.1[5]	NA	NA	--	--	--	0.26 B	--	--	--	--
MERCURY	1.4	0.77	NA[3]	NA	NA	--	--	--	--	--	--	--	--
MOLYBDENUM	NA	NA	NA[3]	NA	NA	1.7 J	1.7 J	1.6 J	1.8 J	1.7 J	1.7 J	1.7 J	1.6 J
NICKEL	1416.3[5]	157.3[5]	157.3[5]	4600	NA	1.3 B	1.3 B	1.2 B	1.5 B	1.4 B	1.3 B	1.5 B	1.4 B
VANADIUM	NA	NA	20	NA	NA	3.7 J	3.8 J	3.6 J	4 J	3.8 J	3.8 J	3.7 J	3.5 J
ZINC	355.0[5]	358.0[5]	358.0[5]	26000	NA	3.1 B	4.7 B	4.3 B	6.4 B	3.3 B	5 B	3.2 B	6.4 B
Miscellaneous metals (µg/L)													
HEXAVALENT CHROMIUM	16	11	11	NA	NA	--	--	0.071	--	0.011 J	0.012 J	0.061	0.124
Miscellaneous parameters (mg/L)													
CALCIUM HARDNESS as $CaCO_3$	NA	NA	NA	NA	NA	100	100	97	100	98	99	97	98
HARDNESS as $CaCO_3$	NA	NA	NA	NA	NA	400	390	390	400	390	390	390	390
MAGNESIUM HARDNESS as $CaCO_3$	NA	NA	NA	NA	NA	300	290	290	300	290	290	290	290

TABLE 4-2

DETECTED ANALYTES AND SCREENING CRITERIA FOR SURFACE WATER SAMPLES - JULY 2013
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

1 National Recommended Water Quality Criteria, http://water.epa.gov/scitech/swguidance/standards/current/index.cfm;
and Maryland Numerical Criteria for Toxic Substances in Surface Waters, Code of Maryland Regulations (COMAR) 26.08.02.03,
http://www.dsd.state.md.us./comar/comarhtml/26/26.08.02.03-2.htm

2 United State Environmental Protection Agency (USEPA) Region 3 Biological Technical Advisory Group (BTAG) Freshwater Screening Benchmarks

3 The BTAG screening benchmark is based on total metal concentration for this analyte. Therefore, dissolved metals results for this metal are not screened against the BTAG screening benchmark.

4 For carcinogens, criterion is for incremental cancer risk of $1x10^{-5}$.

5 Screening criteria are adjusted using a site-specific hardness value of 370 mg/L (lowest and most protective site value for July results), rather than the standard 100 mg/L. Criteria for trivalent chromium are used as surrogate values for total chromium sample concentrations because trivalent chromium criteria are lower and therefore more protective to the environment, and hexavalent chomium was analyzed/screened separately.

6 Site-specific swimming screening levels were developed for trichloroethene, *cis* -1,2-dichloroethene, and vinyl chloride only.

Gray shading indicates a result that exceeds screening criteria.

-- not detected

B - Detected concentration is not substantially above to laboratory blank contamination.

J - Positive result is considered estimated.

$CaCO_3$ - calcium carbonate

EL - Edwards Lane

µg/L - micrograms per liter

mg/L - milligrams per liter

NA - not analyzed or not available

SW - surface water

Map Document: (K:\GProject\MartinStateAirport-LMC\MapDocs\MXD\Maps\MSA Surface Water Samples TCE concentration July 2013.mxd)
8/15/2013 -- 9:53:10 AM

FIGURE 4-1

CONCENTRATIONS OF TRICHLOROETHENE IN SURFACE WATER SAMPLES, JULY 2013 FROG MORTAR CREEK

LEGEND

- JULY 2013 SURFACE WATER SAMPLE LOCATION
- GROUNDWATER MONITORING WELL
- ABANDONED WELL
- MARYLAND AIR NATIONAL GUARD BOUNDARY
- POND

(0.6) = TRICHLOROETHENE CONCENTRATION
J = ESTIMATED VALUE
- - = NOT DETECTED

CONCENTRATION IN MICROGRAMS PER LITER (UG/L)

Frog Mortar Creek
Lockheed Martin, Martin State Airport
Middle River, Maryland

0 75 150 300 Feet

N

DATE MODIFIED: 8/15/13

CREATED BY: MP

TETRA TECH

Map Document: (K:\GProject\MartinStateAirport-LMC\MapDocs\MXD\Maps\MSA Surface Water Samples CIS 1-2 Dichloroethene July2013.mxd)
8/15/2013 -- 10:41:42 AM

FIGURE 4-2

CONCENTRATIONS OF CIS-1,2-DICHLOROETHENE IN SURFACE WATER SAMPLES, JULY 2013 FROG MORTAR CREEK

LEGEND

- JULY 2013 SURFACE WATER SAMPLE LOCATION
- GROUNDWATER MONITORING WELL
- ABANDONED WELL
- MARYLAND AIR NATIONAL GUARD BOUNDARY
- POND

(1.7) = CIS-1,2-DICHLOROETHENE CONCENTRATION
J = ESTIMATED VALUE
- - = NOT DETECTED

CONCENTRATION IN MICROGRAMS PER LITER (UG/L)

Frog Mortar Creek
Lockheed Martin, Martin State Airport
Middle River, Maryland

0 75 150 300 Feet

N

DATE MODIFIED: 8/15/13

CREATED BY: MP

TETRA TECH

Map Document: (K:\GProject\MartinStateAirport-LMC\MapDocs\MXD\Maps\MSA Surface Water Samples Vinyl Chloride concentration July2013.mxd)
8/15/2013 -- 11:04:13 AM

FIGURE 4-3

CONCENTRATIONS OF VINYL CHLORIDE IN SURFACE WATER SAMPLES, JULY 2013 FROG MORTAR CREEK

LEGEND

- JULY 2013 SURFACE WATER SAMPLE LOCATION
- GROUNDWATER MONITORING WELL
- ABANDONED WELL
- MARYLAND AIR NATIONAL GUARD BOUNDARY
- POND

(1.7) = VINYL CHLORIDE CONCENTRATION
J = ESTIMATED VALUE
- - = NOT DETECTED

CONCENTRATION IN MICROGRAMS PER LITER (UG/L)

Frog Mortar Creek
Lockheed Martin, Martin State Airport
Middle River, Maryland

0 75 150 300 Feet

N

DATE MODIFIED: 8/15/13

CREATED BY: MP

TETRA TECH

Section 5
Summary

The following summarizes Lockheed Martin Corporation's (Lockheed Martin's) July 2013 Frog Mortar Creek surface water investigation and findings:

- Forty surface water samples were collected from Frog Mortar Creek on July 18, 2013 and chemically analyzed to assess concentrations of chemical constituents previously detected in Frog Mortar Creek, and to assess creek surface water quality near the Dump Road Area (DRA).

- Four samples were collected along each of nine transects (transects spaced approximately 350 feet apart) along the western shoreline of Frog Mortar Creek. The transects are designated MSA-SW37, MSA-SW38, MSA-SW39, MSA-SW40, MSA-SW41, MSA-SW42, MSA-SW43, MSA-SW44, and MSA-SW45. An additional four samples were collected on the eastern shoreline along a transect (EL-SW01) extending out across Frog Mortar Creek from 3301 Edwards Lane. Along each transect, one sample was collected near the shoreline ("A" sample), one was collected approximately 50 feet from the shoreline ("B" sample), one was collected approximately 100 feet from the shoreline ("C" sample), and one was collected approximately 200 feet from the shoreline ("D" sample). Each sample was collected approximately one foot below the water surface.

- All western shoreline samples from Frog Mortar Creek were analyzed for volatile organic compounds (VOCs), filtered metals, filtered hexavalent chromium, and hardness. The four surface water samples from the Edwards Lane transect were analyzed for volatile organic compounds only.

- The data were validated in accordance with the *United States Environmental Protection Agency (USEPA) Region III Modifications to the National Functional Guidelines for Data Review* (United States Environmental Protection Agency, 1993 and 1994) and the specific requirements of the analytical methods used.

- Sampling results were screened against United States Environmental Protection Agency Region 3 Biological Technical Advisory Group (BTAG) ecological freshwater screening benchmarks; United States Environmental Protection Agency National Recommended Water Quality Criteria (NRWQC) for acute and chronic aquatic organism exposures and for human health aquatic organism consumption; Maryland Ambient Water Quality Criteria (AWQC) for acute and chronic aquatic organism exposures and for human health aquatic organism consumption; and site-specific screening levels developed to evaluate risks to recreational swimmers from exposure to three volatile organic compounds (trichloroethene [TCE], *cis*-1,2-dichloroethene [*cis*-1,2-DCE], and vinyl chloride [VC]) in surface water.

- Volatile organic compounds (primarily trichloroethene, *cis*-1,2-dichloroethene, and vinyl chloride) and metals were detected in the July 2013 surface water samples.

- Detected concentrations of volatile organic compounds were highest at sampling locations SW43A, SW41A, and SW43B, which are east of the Dump Road Area monitoring wells that contain some of the highest concentrations of site related constituents in groundwater.

- Volatile organic compound concentrations detected in July 2013 are generally less than concentrations detected in June 2013. In July 2013, the highest trichloroethene concentration (3.6 micrograms per liter [µg/L]) was detected at location SW43A, while in June 2013, the highest trichloroethene concentration (18 µg/L) was detected at SW40A, located three transects north of SW43. In July 2013, the highest *cis*-1,2-dichloroethene concentrations were detected at SW43A (5.4 µg/L) and SW43B (1.3 µg/L); in June 2013, the two highest *cis*-1,2-dichloroethene concentrations (11 and 5.5 µg/L) were detected at locations SW38A and SW40A, respectively. The highest July 2013 vinyl chloride concentration was detected at SW37A (1 µg/L); in June 2013, the highest vinyl chloride concentration (17 µg/L) was at SW38A.

- At sampling transects with the highest July 2013 concentrations of volatile organic compounds (transect SW43 for trichloroethene and *cis*-1,2-dichloroethene and transect SW37 for vinyl chloride), trichloroethene, *cis*-1,2-dichloroethene, and vinyl chloride concentrations are highest near the shoreline, and decrease progressively in samples collected farther from the shoreline. Detected concentrations of volatile organic compounds in July 2013 samples do not exceed state and United States Environmental Protection Agency Region 3 surface water screening criteria. Vinyl chloride exceeded its swimming criterion (0.7 µg/L) at one location (SW37A). The site-specific swimming criteria for trichloroethene (10 µg/L) and *cis*-1,2-dichloroethene (300 µg/L) were not exceeded in any samples.

- Volatile organic compound concentrations detected in samples collected from the eastern shore of Frog Mortar Creek (locations EL-SW01A–D) during the July 2013 sampling round are all less than screening levels.

- Metals exceeding screening criteria include dissolved barium and dissolved arsenic in all samples. Overall, the July 2013 concentration ranges for metals are consistent with those detected in previous rounds.

- Dissolved hexavalent chromium was detected in 22 of 36 samples at trace concentrations ranging from 0.011 µg/L to 0.124 µg/L. These concentrations are well below its lowest screening criterion (11 µg/L).

Section 6
References

1. *Code of Maryland Regulations* (COMAR), 2012. "Numerical Criteria for Toxic Substances in Surface Waters." COMAR Title 26, Subtitle 08, Chapter 02, Regulation 03. http://www.dsd.state.md.us/comar/comarhtml/26/26.08.02.03-2.htm.

2. Tetra Tech (Tetra Tech, Inc.), 2010. *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.

3. Tetra Tech (Tetra Tech, Inc.), 2011. *Dump Road Supplemental Design Characterization Report, Martin State Airport, Middle River, Maryland*. Report prepared by Tetra Tech, Inc., Germantown, Maryland for Lockheed Martin Corporation, Bethesda, Maryland. April.

4. Tetra Tech (Tetra Tech, Inc.), 2013*a*. *2013 Surface Water Sampling Work Plan, Martin State Airport, 701 Wilson Point Road, Middle River, Maryland*. Report prepared by Tetra Tech, Inc., Germantown, Maryland for Lockheed Martin Corporation, Bethesda, Maryland. January.

5. Tetra Tech (Tetra Tech, Inc.), 2013*b*. *2012 Surface Water Sampling Report for Frog Mortar Creek, Martin State Airport, 701 Wilson Point Road, Middle River, Maryland*. Report prepared by Tetra Tech, Inc., Germantown, Maryland for Lockheed Martin Corporation, Bethesda, Maryland. May.

6. USEPA (U.S. Environmental Protection Agency), Region 3, 1993. *Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganics Analyses*. April.

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

8. USEPA (U.S. Environmental Protection Agency), 2002. *National Recommended Water Quality Criteria: 2002*. U.S. Environmental Protection Agency, Office of Water, Office of Science and Technology. November.

9. USEPA (U.S. Environmental Protection Agency) 2006. *Region III Biological Technical Advisory Group Freshwater Screening Benchmarks*. July.

10. USEPA (U.S. Environmental Protection Agency) 2009. *National Recommended Water Quality Criteria*. U.S. Environmental Protection Agency, Office of Water, Office of Science and Technology.
http://water.epa.gov/scitech/swguidance/standards/current/index.cfm
or http://water.epa.gov/scitech/swguidance/standards/current/upload/nrwqc-2009.p.

APPENDIX A—SURFACE WATER SAMPLE LOG SHEETS

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC04021-07

Sample ID No.: MSA-SW-01A
Sample Location: FMC SW
Sampled By: JAM
C.O.C. No.:

[] Stream
[] Spring
[] Pond
[] Lake
[x] Other: Tidal creek- estuarine
[] QA Sample Type:

Type of Sample:
[x] 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: 7/18/2013								
Time: 0926								
Depth: 1 foot	Clear	7.34	3.68	31.68	7.24	4.77	146	1.4
Method: Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCL pH<2	3- 40mL glass vials	yes

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Josh Mullis

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC04021-07

Sample ID No.: MSA-SW-01B
Sample Location: FMC SW
Sampled By: JAM
C.O.C. No.:

[] Stream
[] Spring
[] Pond
[] Lake
[x] Other: Tidal creek- estuarine
[] QA Sample Type:

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

SAMPLING DATA:

Date: 7/18/2013
Time: 0942
Depth: 1 foot
Method: Grab

Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
clear	7.39	7.67	31.59	8.55	4.04	1.4	119

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCL pH<2	3- 40mL glass vials	yes

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Josh Mullis

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC04021-07

Sample ID No.: MSA-SW-01C
Sample Location: FMC SW
Sampled By: JAM
C.O.C. No.:

[] Stream
[] Spring
[] Pond
[] Lake
[x] Other: Tidal creek- estuarine
[] QA Sample Type:

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

SAMPLING DATA:

		Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Date:	7/18/2013	clear ~~7.36~~	7.36	3.67	31.61	7.52	4.32	1.4	131
Time:	0947								
Depth:	1 foot								
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCL pH<2	3- 40mL glass vials	yes

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Josh Mullis

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC04021-07

[] Stream
[] Spring
[] Pond
[] Lake
[x] Other: Tidal creek- estuarine
[] QA Sample Type:

Sample ID No.: MSA-SW-01D
Sample Location: FMC SW
Sampled By: JAM
C.O.C. No.:

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

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Date: 7/18/2013 Time: 0951 Depth: 1 foot Method: Grab	clear	7.46	3.68	31.66	7.43	4.16	1.4	124

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCL pH<2	3- 40mL glass vials	yes

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Josh Mullis

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC04021-07

Sample ID No.: MSA-SW-37A
Sample Location: FMC SW
Sampled By: JAM
C.O.C. No.:

[] Stream
[] Spring
[] Pond
[] Lake
[x] Other: Tidal creek- estuarine
[] QA Sample Type:

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

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^0C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Date: 7/18/2013 Time: 1400 Depth: 1 foot Method: Grab	Clear	7.64	3.67	37.43	8.00	5.08	1.4	152

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCL pH<2	3- 40mL glass vials	yes
Dissolved Metals	HNO3 pH<2	1-500 mL plastic bottle	yes
Hexavalent Chromium	<4°C	1-250mL plastic bottle	yes

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Josh Mullis

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC04021-07

Sample ID No.: MSA-SW-37B
Sample Location: FMC SW
Sampled By: JAM
C.O.C. No.:

[] Stream
[] Spring
[] Pond
[] Lake
[x] Other: Tidal creek- estuarine
[] QA Sample Type:

Type of Sample:
[x] 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: 7/18/2013 Time: 1403 Depth: 1 foot Method: Grab	clear	7.81	3.67	37.32	7.26	5.28	1.4	153

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCL pH<2	3- 40mL glass vials	yes
Dissolved Metals	HNO3 pH<2	1-500 mL plastic bottle	yes
Hexavalent Chromium	<4°C	1-250mL plastic bottle	yes

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Josh Mullis

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC04021-07

Sample ID No.: MSA-SW-37C
Sample Location: FMC SW
Sampled By: JAM
C.O.C. No.:

[] Stream
[] Spring
[] Pond
[] Lake
[x] Other: Tidal creek- estuarine
[] QA Sample Type:

Type of Sample:
[x] 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: 7/18/2013 Time: 1408 Depth: 1 foot Method: Grab	Clear	7.84	3.67	33.29	6.98	5.71	1.4	153

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCL pH<2	3- 40mL glass vials	yes
Dissolved Metals	HNO3 pH<2	1-500 mL plastic bottle	yes
Hexavalent Chromium	<4°C	1-250mL plastic bottle	yes

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s): Josh Mullis

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name:	Frog Mortar Creek, Martin State Airport
Project No.:	112IC04021-07
Sample ID No.:	MSA-SW-370
Sample Location:	FMC SW
Sampled By:	JAM
C.O.C. No.:	

[] Stream
[] Spring
[] Pond
[] Lake
[x] Other: Tidal creek- estuarine
[] QA Sample Type:

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

SAMPLING DATA:

Date: 7/18/2013	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Time: 1415								
Depth: 1 foot	Clear	7.84	3.67	33.21	7.6	5.32	1.4	155
Method: Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCL pH<2	3- 40mL glass vials	yes
Dissolved Metals	HNO3 pH<2	1-500 mL plastic bottle	yes
Hexavalent Chromium	<4°C	1-250mL plastic bottle	yes

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Josh Mullis

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC04021-07

Sample ID No.: MSA-SW-38A
Sample Location: FMC SW
Sampled By: JAM
C.O.C. No.:

[] Stream
[] Spring
[] Pond
[] Lake
[x] Other: Tidal creek- estuarine
[] QA Sample Type:

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

SAMPLING DATA:

		Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Date:	7/18/2013	Clear	7.72	3.67	33.74	6.86	5.29	1.4	135
Time:	1258								
Depth:	1 foot								
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCL pH<2	3- 40mL glass vials	yes
Dissolved Metals	HNO3 pH<2	1-500 mL plastic bottle	yes
Hexavalent Chromium	<4°C	1-250mL plastic bottle	yes

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Josh Mullis

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC04021-07

Sample ID No.: MSA-SW-38B
Sample Location: FMC SW
Sampled By: JAM
C.O.C. No.:

[] Stream
[] Spring
[] Pond
[] Lake
[x] Other: Tidal creek- estuarine
[] QA Sample Type:

Type of Sample:
[x] 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:	7/18/2013								
Time:	1302								
Depth:	1 foot	Clear	7.74	3.68	33.85	7.79	5.25	1.4	141
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCL pH<2	3- 40mL glass vials	yes
Dissolved Metals	HNO3 pH<2	1-500 mL plastic bottle	yes
Hexavalent Chromium	<4°C	1-250mL plastic bottle	yes

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Josh Mullis

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SURFACE WATER SAMPLE LOG SHEET

Page 1 of 1

Project Site Name:	Frog Mortar Creek, Martin State Airport	Sample ID No.:	MSA-SW- 38C
Project No.:	112IC04021-07	Sample Location:	FMC SW
		Sampled By:	JAM
		C.O.C. No.:	

[] Stream
[] Spring
[] Pond
[] Lake
[x] Other: Tidal creek- estuarine
[] QA Sample Type:

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

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^0C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Date: 7/18/2013 Time: 1306 Depth: 1 foot Method: Grab	Clear	7.76	3.68	33.18	7.50	5.25	1.4	143

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCL pH<2	3- 40mL glass vials	yes
Dissolved Metals	HNO3 pH<2	1-500 mL plastic bottle	yes
Hexavalent Chromium	<4°C	1-250mL plastic bottle	yes

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Josh Mullis

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC04021-07

Sample ID No.: MSA-SW-380
Sample Location: FMC SW
Sampled By: JAM
C.O.C. No.:

[] Stream
[] Spring
[] Pond
[] Lake
[x] Other: Tidal creek- estuarine
[] QA Sample Type:

Type of Sample:
[x] 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:	7/18/2013	Clear	7.73	3.68	32.94	7.63	5.29	1.4	145
Time:	1310								
Depth:	1 foot								
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCL pH<2	3- 40mL glass vials	yes
Dissolved Metals	HNO3 pH<2	1-500 mL plastic bottle	yes
Hexavalent Chromium	<4°C	1-250mL plastic bottle	yes

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Josh Mullis

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC04021-07

Sample ID No.: MSA-SW-39A
Sample Location: FMC SW
Sampled By: JAM
C.O.C. No.:

[] Stream
[] Spring
[] Pond
[] Lake
[x] Other: Tidal creek- estuarine
[] QA Sample Type:

Type of Sample:
[x] 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:	7/18/2013	Clear	7.67	3.65	32.10	8.86	4.76	1.3	127
Time:	1015								
Depth:	1 foot								
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCL pH<2	3- 40mL glass vials	yes
Dissolved Metals	HNO3 pH<2	1-500 mL plastic bottle	yes
Hexavalent Chromium	<4°C	1-250mL plastic bottle	yes

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Josh Mullis

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SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC04021-07

Sample ID No.: MSA-SW-34B
Sample Location: FMC SW
Sampled By: JAM
C.O.C. No.:

[] Stream
[] Spring
[] Pond
[] Lake
[x] Other: Tidal creek- estuarine
[] QA Sample Type:

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

SAMPLING DATA:

Date: 7/18/2013	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^0C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Time: 1021	Clear	7.57	3.65	31.89	8.58	4.81	1.3	133
Depth: 1 foot								
Method: Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCL pH<2	3- 40mL glass vials	yes
Dissolved Metals	HNO3 pH<2	1-500 mL plastic bottle	yes
Hexavalent Chromium	<4°C	1-250mL plastic bottle	yes

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Josh Mullis

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC04021-07

Sample ID No.: MSA-SW-39C
Sample Location: FMC SW
Sampled By: JAM
C.O.C. No.:

[] Stream
[] Spring
[] Pond
[] Lake
[x] Other: Tidal creek- estuarine
[] QA Sample Type:

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

SAMPLING DATA:

Date: 7/18/2013
Time: 1029
Depth: 1 foot
Method: Grab

Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Clear	7.58	3.67	32.65	8.91	4.88	1.3	136

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCL pH<2	3- 40mL glass vials	yes
Dissolved Metals	HNO3 pH<2	1-500 mL plastic bottle	yes
Hexavalent Chromium	<4°C	1-250mL plastic bottle	yes

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

Josh Mullis

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC04021-07

Sample ID No.: MSA-SW-39D
Sample Location: FMC SW
Sampled By: JAM
C.O.C. No.:

[] Stream
[] Spring
[] Pond
[] Lake
[x] Other: Tidal creek- estuarine
[] QA Sample Type:

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

SAMPLING DATA:

		Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Date:	7/18/2013								
Time:	1034								
Depth:	1 foot	clear	7.56	7.66	31.90	9.65	4.75	1.3	136
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCL pH<2	3- 40mL glass vials	yes
Dissolved Metals	HNO3 pH<2	1-500 mL plastic bottle	yes
Hexavalent Chromium	<4°C	1-250mL plastic bottle	yes

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Josh Mullis

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC04021-07

Sample ID No.: MSA-SW-4DA
Sample Location: FMC SW
Sampled By: JAM
C.O.C. No.:

[] Stream
[] Spring
[] Pond
[] Lake
[x] Other: Tidal creek- estuarine
[] QA Sample Type:

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

SAMPLING DATA:

Date: 7/18/2013	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Time: 1316	clear	7.77	3.68	34.24	8.19	5.14	1.4	139
Depth: 1 foot								
Method: Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCL pH<2	3- 40mL glass vials	yes
Dissolved Metals	HNO3 pH<2	1-500 mL plastic bottle	yes
Hexavalent Chromium	<4°C	1-250mL plastic bottle	yes

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Josh Mullis

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC04021-07

Sample ID No.: MSA-SW-40B
Sample Location: FMC SW
Sampled By: JAM
C.O.C. No.:

[] Stream
[] Spring
[] Pond
[] Lake
[x] Other: Tidal creek- estuarine
[] QA Sample Type:

Type of Sample:
[x] 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:	7/18/2013	clear	7.77	3.68	33.48	7.28	5.51	1.4	143
Time:	1321								
Depth:	1 foot								
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCL pH<2	3- 40mL glass vials	yes
Dissolved Metals	HNO3 pH<2	1-500 mL plastic bottle	yes
Hexavalent Chromium	<4°C	1-250mL plastic bottle	yes

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): [illegible]
Josh Mullis

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC04021-07

Sample ID No.: MSA-SW-40C
Sample Location: FMC SW
Sampled By: JAM
C.O.C. No.:

[] Stream
[] Spring
[] Pond
[] Lake
[x] Other: Tidal creek- estuarine
[] QA Sample Type:

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

SAMPLING DATA:

		Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Date:	7/18/2013								
Time:	1326								
Depth:	1 foot	clear	7.81	3.68	33.18	6.83	5.49	1.4	147
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCL pH<2	3- 40mL glass vials	yes
Dissolved Metals	HNO3 pH<2	1-500 mL plastic bottle	yes
Hexavalent Chromium	<4°C	1-250mL plastic bottle	yes

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Josh Mullis

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC04021-07

Sample ID No.: MSA-SW-400
Sample Location: FMC SW
Sampled By: JAM
C.O.C. No.:

[] Stream
[] Spring
[] Pond
[] Lake
[x] Other: Tidal creek- estuarine
[] QA Sample Type:

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

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Date: 7/18/2013 Time: 1332 Depth: 1 foot Method: Grab	clear	7.79	3.68	32.94	8.23	5.32	1.4	148

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCL pH<2	3- 40mL glass vials	yes
Dissolved Metals	HNO3 pH<2	1-500 mL plastic bottle	yes
Hexavalent Chromium	<4°C	1-250mL plastic bottle	yes

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Josh Mullis

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC04021-07

[] Stream
[] Spring
[] Pond
[] Lake
[x] Other: Tidal creek- estuarine
[] QA Sample Type:

Sample ID No.: MSA-SW-41A
Sample Location: FMC SW 41A
Sampled By: JAM
C.O.C. No.:

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

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Date: 7/18/2013 Time: 1241 Depth: 1 foot Method: Grab	clear	7.51	3.66	33.03	13.61	4.59	1.3	154

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCL pH<2	3- 40mL glass vials	yes
Dissolved Metals	HNO3 pH<2	1-500 mL plastic bottle	yes
Hexavalent Chromium	<4°C	1-250mL plastic bottle	yes

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s): Josh Mullis

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC04021-07

Sample ID No.: MSA-SW-41B
Sample Location: FMC SW
Sampled By: JAM
C.O.C. No.:

[] Stream
[] Spring
[] Pond
[] Lake
[x] Other: Tidal creek- estuarine
[] QA Sample Type:

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

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Date: 7/18/2013 Time: 1245 Depth: 1 foot Method: Grab	Clear	7.71	3.68	32.35	9.98	4.94	1.4	151

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCL pH<2	3- 40mL glass vials	yes
Dissolved Metals	HNO3 pH<2	1-500 mL plastic bottle	yes
Hexavalent Chromium	<4°C	1-250mL plastic bottle	yes

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Josh Mullis

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC04021-07

[] Stream
[] Spring
[] Pond
[] Lake
[x] Other: Tidal creek- estuarine
[] QA Sample Type:

Sample ID No.: MSA-SW-41C
Sample Location: FMC SW
Sampled By: JAM
C.O.C. No.:

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

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Date: 7/18/2013 Time: 1249 Depth: 1 foot Method: Grab	clear	7.75	3.68	32.92	2.49	5.57	1.4	149

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCL pH<2	3- 40mL glass vials	yes
Dissolved Metals	HNO3 pH<2	1-500 mL plastic bottle	yes
Hexavalent Chromium	<4°C	1-250mL plastic bottle	yes

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Josh Mullis

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC04021-07

Sample ID No.: MSA-SW-410
Sample Location: FMC SW
Sampled By: JAM
C.O.C. No.:

[] Stream
[] Spring
[] Pond
[] Lake
[x] Other: Tidal creek- estuarine
[] QA Sample Type:

Type of Sample:
[x] 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:	7/18/2013	clear	7.75	7.68	32.88	7.75	4.95	1.4	147
Time:	1252								
Depth:	1 foot								
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCL pH<2	3- 40mL glass vials	yes
Dissolved Metals	HNO3 pH<2	1-500 mL plastic bottle	yes
Hexavalent Chromium	<4°C	1-250mL plastic bottle	yes

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Josh Mullis

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC04021-07

Sample ID No.: MSA-SW-42A
Sample Location: FMC SW
Sampled By: JAM
C.O.C. No.:

[] Stream
[] Spring
[] Pond
[] Lake
[x] Other: Tidal creek- estuarine
[] QA Sample Type:

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

SAMPLING DATA:

		Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Date:	7/18/2013								
Time:	1337								
Depth:	1 foot	clear	7.69	7.67	33.51	8.76	5.22	~~149~~ 1.4	149
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCL pH<2	3- 40mL glass vials	yes
Dissolved Metals	HNO3 pH<2	1-500 mL plastic bottle	yes
Hexavalent Chromium	<4ºC	1-250mL plastic bottle	yes

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Josh Mullis

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC04021-07

Sample ID No.: MSA-SW-42B
Sample Location: FMC SW
Sampled By: JAM
C.O.C. No.:

[] Stream
[] Spring
[] Pond
[] Lake
[x] Other: Tidal creek- estuarine
[] QA Sample Type:

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

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Date: 7/18/2013								
Time: 1342								
Depth: 1 foot	clear	7.74	3.67	33.19	7.00	5.09	1.4	151
Method: Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCL pH<2	3- 40mL glass vials	yes
Dissolved Metals	HNO3 pH<2	1-500 mL plastic bottle	yes
Hexavalent Chromium	<4°C	1-250mL plastic bottle	yes

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Josh Mullis

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC04021-07

Sample ID No.: MSA-SW-42C
Sample Location: FMC SW
Sampled By: JAM
C.O.C. No.:

[] Stream
[] Spring
[] Pond
[] Lake
[x] Other: Tidal creek- estuarine
[] QA Sample Type:

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

SAMPLING DATA:

		Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Date:	7/18/2013	clear	7.80	3.68	33.79	6.89	5.38	1.4	151
Time:	1347								
Depth:	1 foot								
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCL pH<2	3- 40mL glass vials	yes
Dissolved Metals	HNO3 pH<2	1-500 mL plastic bottle	yes
Hexavalent Chromium	<4°C	1-250mL plastic bottle	yes

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Josh Mullis

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC04021-07

Sample ID No.: MSA-SW-420
Sample Location: FMC SW
Sampled By: JAM
C.O.C. No.:

[] Stream
[] Spring
[] Pond
[] Lake
[x] Other: Tidal creek- estuarine
[] QA Sample Type:

Type of Sample:
[x] 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:	7/18/2013								
Time:	1351								
Depth:	1 foot	clear	7.81	3.68	32.16	7.02	5.67	1.4	152
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCL pH<2	3- 40mL glass vials	yes
Dissolved Metals	HNO3 pH<2	1-500 mL plastic bottle	yes
Hexavalent Chromium	<4°C	1-250mL plastic bottle	yes

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Josh Mullis

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC04021-07

Sample ID No.: MSA-SW-43A
Sample Location: FMC SW
Sampled By: JAM
C.O.C. No.:

[] Stream
[] Spring
[] Pond
[] Lake
[x] Other: Tidal creek- estuarine
[] QA Sample Type:

Type of Sample:
[x] 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: 7/18/2013 Time: 1219 Depth: 1 foot Method: Grab	Clear	7.39	3.62	32.87	9.17	4.67	1.3	153

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCL pH<2	3- 40mL glass vials	yes
Dissolved Metals	HNO3 pH<2	1-500 mL plastic bottle	yes
Hexavalent Chromium	<4°C	1-250mL plastic bottle	yes

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Josh Mullis

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Page_1_ of _1_

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC04021-07

Sample ID No.: MSA-SW-43B
Sample Location: FMC SW
Sampled By: JAM
C.O.C. No.:

[] Stream
[] Spring
[] Pond
[] Lake
[x] Other: Tidal creek- estuarine
[] QA Sample Type:

Type of Sample:
[x] 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:	7/18/2013								
Time:	1226								
Depth:	1 foot	Clear	7.64	3.66	33.35	7.89	5.10	1.4	151
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCL pH<2	3- 40mL glass vials	yes
Dissolved Metals	HNO3 pH<2	1-500 mL plastic bottle	yes
Hexavalent Chromium	<4°C	1-250mL plastic bottle	yes

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s): Josh Mullis

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC04021-07

Sample ID No.: MSA-SW-43C
Sample Location: FMC SW
Sampled By: JAM
C.O.C. No.:

[] Stream
[] Spring
[] Pond
[] Lake
[x] Other: Tidal creek- estuarine
[] QA Sample Type:

Type of Sample:
[x] 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: 7/18/2013								
Time: 1230								
Depth: 1 foot	clear	7.69	3.69	27.03	7.44	5.07	150	1.4
Method: Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCL pH<2	3- 40mL glass vials	yes
Dissolved Metals	HNO3 pH<2	1-500 mL plastic bottle	yes
Hexavalent Chromium	<4°C	1-250mL plastic bottle	yes

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Josh Mullis

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Page 1 of 1

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC04021-07

Sample ID No.: MSA-SW-430
Sample Location: FMC SW
Sampled By: JAM
C.O.C. No.:

[] Stream
[] Spring
[] Pond
[] Lake
[x] Other: Tidal creek- estuarine
[] QA Sample Type:

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

SAMPLING DATA:

Date: 7/18/2013	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Time: 1734								
Depth: 1 foot	clear	7.75	3.67	32.16	7.33	5.36	1.8	148
Method: Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCL pH<2	3- 40mL glass vials	yes
Dissolved Metals	HNO3 pH<2	1-500 mL plastic bottle	yes
Hexavalent Chromium	<4°C	1-250mL plastic bottle	yes

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Josh Mullis

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC04021-07

Sample ID No.: MSA-SW-44A
Sample Location: FMC SW
Sampled By: JAM
C.O.C. No.:

[] Stream
[] Spring
[] Pond
[] Lake
[x] Other: Tidal creek- estuarine
[] QA Sample Type:

Type of Sample:
[x] 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: 7/18/2013 Time: 1115 Depth: 1 foot Method: Grab	clear	7.58	3.67	32.80	8.95	4.74	1.4	179

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCL pH<2	3- 40mL glass vials	yes
Dissolved Metals	HNO3 pH<2	1-500 mL plastic bottle	yes
Hexavalent Chromium	<4°C	1-250mL plastic bottle	yes

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Josh Mullis

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC04021-07

Sample ID No.: MSA-SW-44B
Sample Location: FMC SW
Sampled By: JAM
C.O.C. No.:

[] Stream
[] Spring
[] Pond
[] Lake
[x] Other: Tidal creek- estuarine
[] QA Sample Type:

Type of Sample:
[x] 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: 7/18/2013 Time: 1122 Depth: 1 foot Method: Grab	clear	7.60	3.67	32.40	7.65	4.83	1.4	144

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCL pH<2	3- 40mL glass vials	yes
Dissolved Metals	HNO3 pH<2	1-500 mL plastic bottle	yes
Hexavalent Chromium	<4°C	1-250mL plastic bottle	yes

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s): Josh Mullis

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Page 1 of 1

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC04021-07

Sample ID No.: MSA-SW-44C
Sample Location: FMC SW
Sampled By: JAM
C.O.C. No.:

[] Stream
[] Spring
[] Pond
[] Lake
[x] Other: Tidal creek- estuarine
[] QA Sample Type:

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

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Date: 7/18/2013 Time: 1125 Depth: 1 foot Method: Grab	clear	7.62	3.67	32.59	14.9	4.90	1.4	145

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCL pH<2	3- 40mL glass vials	yes
Dissolved Metals	HNO3 pH<2	1-500 mL plastic bottle	yes
Hexavalent Chromium	<4°C	1-250mL plastic bottle	yes

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Josh Mullis

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name:	Frog Mortar Creek, Martin State Airport	Sample ID No.:	MSA-SW-440
Project No.:	112IC04021-07	Sample Location:	FMC SW
		Sampled By:	JAM
		C.O.C. No.:	

[] Stream
[] Spring
[] Pond
[] Lake
[x] Other: Tidal creek- estuarine
[] QA Sample Type:

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

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Date: 7/18/2013								
Time: 1131								
Depth: 1 foot	clear	7.63	3.68	32.26	7.64	4.94	1.4	148
Method: Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCL pH<2	3- 40mL glass vials	yes
Dissolved Metals	HNO3 pH<2	1-500 mL plastic bottle	yes
Hexavalent Chromium	<4°C	1-250mL plastic bottle	yes

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Josh Mullis

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC04021-07

Sample ID No.: MSA-SW-45A
Sample Location: FMC SW
Sampled By: JAM
C.O.C. No.:

[] Stream
[] Spring
[] Pond
[] Lake
[x] Other: Tidal creek- estuarine
[] QA Sample Type:

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

SAMPLING DATA:

		Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Date:	7/18/2013	clear	7.55	3.67	32.40	16.30	4.87	1.3	109
Time:	1047								
Depth:	1 foot								
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCL pH<2	3- 40mL glass vials	yes
Dissolved Metals	HNO3 pH<2	1-500 mL plastic bottle	yes
Hexavalent Chromium	<4°C	1-250mL plastic bottle	yes

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

Josh Mullis

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC04021-07

Sample ID No.: MSA-SW-45B
Sample Location: FMC SW
Sampled By: JAM
C.O.C. No.:

[] Stream
[] Spring
[] Pond
[] Lake
[x] Other: Tidal creek- estuarine
[] QA Sample Type:

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

SAMPLING DATA:

		Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Date:	7/18/2013	clear	7.60	3.67	32.09	7.82	4.65	1.3	125
Time:	1053								
Depth:	1 foot								
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCL pH<2	3- 40mL glass vials	yes
Dissolved Metals	HNO3 pH<2	1-500 mL plastic bottle	yes
Hexavalent Chromium	<4°C	1-250mL plastic bottle	yes

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Josh Mullis

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name:	Frog Mortar Creek, Martin State Airport
Project No.:	112IC04021-07
Sample ID No.:	MSA-SW-45C
Sample Location:	FMC SW
Sampled By:	JAM
C.O.C. No.:	

[] Stream
[] Spring
[] Pond
[] Lake
[x] Other: Tidal creek- estuarine
[] QA Sample Type:

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

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Date: 7/18/2013								
Time: 1100								
Depth: 1 foot	clear	7.60	3.68	32.18	8.42	4.79	1.4	133
Method: Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCL pH<2	3- 40mL glass vials	yes
Dissolved Metals	HNO3 pH<2	1-500 mL plastic bottle	yes
Hexavalent Chromium	<4°C	1-250mL plastic bottle	yes

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Josh Mullis

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC04021-07

Sample ID No.: MSA-SW-450
Sample Location: FMC SW
Sampled By: JAM
C.O.C. No.:

[] Stream
[] Spring
[] Pond
[] Lake
[x] Other: Tidal creek- estuarine
[] QA Sample Type:

Type of Sample:
[x] 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: 7/18/2013								
Time: 1105								
Depth: 1 foot	clear	7.59	3.68	32.24	7.76	4.96	1.4	136
Method: Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCL pH<2	3- 40mL glass vials	yes
Dissolved Metals	HNO3 pH<2	1-500 mL plastic bottle	yes
Hexavalent Chromium	<4°C	1-250mL plastic bottle	yes

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s): Josh Mullis

APPENDIX B—DATA VALIDATION REPORTS (ON CD)

Tetra Tech **INTERNAL CORRESPONDENCE**

TO:	**A. APANAVAGE**	**DATE:**	**AUGUST 6, 2013**
FROM:	**TERRI SOLOMON**	**COPIES:**	**DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION- DISSOLVED METALS; HARDNESS**
MARTIN STATE AIRPORT – SURFACE WATER
SDG 240-27038-1

SAMPLES: 36/Aqueous

MSA-SW37A-071813	MSA-SW37B-071813	MSA-SW37C-071813
MSA-SW37D-071813	MSA-SW38A-071813	MSA-SW38B-071813
MSA-SW38C-071813	MSA-SW38D-071813	MSA-SW39A-071813
MSA-SW39B-071813	MSA-SW39C-071813	MSA-SW39D-071813
MSA-SW40A-071813	MSA-SW40B-071813	MSA-SW40C-071813
MSA-SW40D-071813	MSA-SW41A-071813	MSA-SW41B-071813
MSA-SW41C-071813	MSA-SW41D-071813	MSA-SW42A-071813
MSA-SW42B-071813	MSA-SW42C-071813	MSA-SW42D-071813
MSA-SW43A-071813	MSA-SW43B-071813	MSA-SW43C-071813
MSA-SW43D-071813	MSA-SW44A-071813	MSA-SW44B-071813
MSA-SW44C-071813	MSA-SW44D-071813	MSA-SW45A-071813
MSA-SW45B-071813	MSA-SW45C-071813	MSA-SW45D-071813

Overview

The sample set for Martin State Airport – Surface Water, SDG 240-27038-1, consists of thirty-six (36) aqueous environmental samples. No field duplicate samples were included in this SDG.

All samples were analyzed for select dissolved metals including antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, tungsten, vanadium and zinc. All samples were also analyzed for hardness (calcium hardness as $CaCO_3$, hardness as $CaCO_3$ and magnesium hardness as $CaCO_3$). The samples were collected by Tetra Tech on July 18, 2013 and analyzed by Test America - Canton. Metals analyses were conducted in accordance with SW-846 method 6020. Mercury analyses were conducted in accordance with SW-846 method 7470A. Hardness analyses were conducted in accordance with Standard Method 2340B – calculation.

The data contained in this SDG were validated with regard to the following parameters: data completeness, holding times, initial/continuing calibrations, laboratory method / preparation blank results, laboratory control sample recoveries, matrix spike / matrix spike duplicate recoveries, ICP interference results, ICP serial dilution results, internal standard recoveries, analyte quantitation, and detection limits. Areas of concern are listed below.

Major – None.

TABLE C-1

CHEMICAL RESULTS FOR SURFACE WATER SAMPLES - JULY 2013
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND
PAGE 1 OF PAGE 8

LOCATION	EL-SW01A	EL-SW01B	EL-SW01C	EL-SW01D	MSA-SW-37A	MSA-SW-37B	MSA-SW-37C	MSA-SW-37D	MSA-SW-38A	MSA-SW-38B	MSA-SW-38C
SAMPLE ID	EL-SW01A-071813	EL-SW01B-071813	EL-SW01C-071813	EL-SW01D-071813	MSA-SW37A-071813	MSA-SW37B-071813	MSA-SW37C-071813	MSA-SW37D-071813	MSA-SW38A-071813	MSA-SW38B-071813	MSA-SW38C-071813
SAMPLE DATE	7/18/2013	7/18/2013	7/18/2013	7/18/2013	7/18/2013	7/18/2013	7/18/2013	7/18/2013	7/18/2013	7/18/2013	7/18/2013
VOLATILES (UG/L)											
1,1,1,2-TETRACHLOROETHANE	0.23 U [MDL=0.23]	0.23 U [MDL=0.23]	0.23 U [MDL=0.23]	0.23 U [MDL=0.23]	0.23 U [MDL=0.23]	0.23 U [MDL=0.23]	0.23 U [MDL=0.23]	0.23 U [MDL=0.23]	0.23 U [MDL=0.23]	0.23 U [MDL=0.23]	0.23 U [MDL=0.23]
1,1,1-TRICHLOROETHANE	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]
1,1,2,2-TETRACHLOROETHANE	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]
1,1,2-TRICHLOROTRIFLUOROETHANE	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]
1,1-DICHLOROETHANE	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]
1,1-DICHLOROETHENE	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]
1,1-DICHLOROPROPENE	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]
1,2,3-TRICHLOROBENZENE	0.17 UJ [MDL=0.17]	0.17 UJ [MDL=0.17]	0.17 UJ [MDL=0.17]	0.17 UJ [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]
1,2,3-TRICHLOROPROPANE	0.43 U [MDL=0.43]	0.43 U [MDL=0.43]	0.43 U [MDL=0.43]	0.43 U [MDL=0.43]	0.43 U [MDL=0.43]	0.43 U [MDL=0.43]	0.43 U [MDL=0.43]	0.43 U [MDL=0.43]	0.43 U [MDL=0.43]	0.43 U [MDL=0.43]	0.43 U [MDL=0.43]
1,2,3-TRIMETHYLBENZENE	0.0059 U [MDL=0.0059]	0.0059 U [MDL=0.0059]	0.0059 U [MDL=0.0059]	0.0059 U [MDL=0.0059]	0.0059 U [MDL=0.0059]	0.0059 U [MDL=0.0059]	0.0059 U [MDL=0.0059]	0.0059 U [MDL=0.0059]	0.0059 U [MDL=0.0059]	0.0059 U [MDL=0.0059]	0.0059 U [MDL=0.0059]
1,2,4-TRICHLOROBENZENE	0.15 UJ [MDL=0.15]	0.15 UJ [MDL=0.15]	0.15 UJ [MDL=0.15]	0.15 UJ [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]
1,2,4-TRIMETHYLBENZENE	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]
1,2-DIBROMO-3-CHLOROPROPANE	0.67 U [MDL=0.67]	0.67 U [MDL=0.67]	0.67 U [MDL=0.67]	0.67 U [MDL=0.67]	0.67 U [MDL=0.67]	0.67 U [MDL=0.67]	0.67 U [MDL=0.67]	0.67 U [MDL=0.67]	0.67 U [MDL=0.67]	0.67 U [MDL=0.67]	0.67 U [MDL=0.67]
1,2-DIBROMOETHANE	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]
1,2-DICHLOROBENZENE	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]
1,2-DICHLOROETHANE	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]
1,2-DICHLOROPROPANE	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]
1,3-DICHLOROBENZENE	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]
1,3-DICHLOROPROPANE	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]
1,4-DICHLOROBENZENE	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]
2,2-DICHLOROPROPANE	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]
2-BUTANONE	0.57 U [MDL=0.57]	0.57 U [MDL=0.57]	0.57 U [MDL=0.57]	0.57 U [MDL=0.57]	0.57 U [MDL=0.57]	0.57 U [MDL=0.57]	0.57 U [MDL=0.57]	0.57 U [MDL=0.57]	0.57 U [MDL=0.57]	0.57 U [MDL=0.57]	0.57 U [MDL=0.57]
2-CHLOROETHYL VINYL ETHER	0.99 U [MDL=0.99]	0.99 U [MDL=0.99]	0.99 U [MDL=0.99]	0.99 U [MDL=0.99]	0.99 U [MDL=0.99]	0.99 U [MDL=0.99]	0.99 U [MDL=0.99]	0.99 U [MDL=0.99]	0.99 U [MDL=0.99]	0.99 U [MDL=0.99]	0.99 U [MDL=0.99]
2-CHLOROTOLUENE	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]
2-HEXANONE	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]
4-CHLOROTOLUENE	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]
4-ISOPROPYLTOLUENE	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]
4-METHYL-2-PENTANONE	0.32 U [MDL=0.32]	0.32 U [MDL=0.32]	0.32 U [MDL=0.32]	0.32 U [MDL=0.32]	0.32 U [MDL=0.32]	0.32 U [MDL=0.32]	0.32 U [MDL=0.32]	0.32 U [MDL=0.32]	0.32 U [MDL=0.32]	0.32 U [MDL=0.32]	0.32 U [MDL=0.32]
ACETONE	1.4 J [MDL=1.1]	1.1 J [MDL=1.1]	2.9 J [MDL=1.1]	1.8 J [MDL=1.1]	1.1 U [MDL=1.1]	1.1 U [MDL=1.1]	1.1 U [MDL=1.1]	1.1 U [MDL=1.1]	1.1 U [MDL=1.1]	1.1 U [MDL=1.1]	1.1 U [MDL=1.1]
BENZENE	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]
BROMOBENZENE	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]
BROMOCHLOROMETHANE	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]
BROMODICHLOROMETHANE	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]
BROMOFORM	0.64 U [MDL=0.64]	0.64 U [MDL=0.64]	0.64 U [MDL=0.64]	0.64 U [MDL=0.64]	0.64 U [MDL=0.64]	0.64 U [MDL=0.64]	0.64 U [MDL=0.64]	0.64 U [MDL=0.64]	0.64 U [MDL=0.64]	0.64 U [MDL=0.64]	0.64 U [MDL=0.64]
BROMOMETHANE	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]
CARBON DISULFIDE	0.2 J [MDL=0.13]	0.15 J [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]
CARBON TETRACHLORIDE	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]
CHLOROBENZENE	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]
CHLORODIBROMOMETHANE	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]
CHLOROETHANE	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]
CHLOROFORM	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]
CHLOROMETHANE	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]
CIS-1,2-DICHLOROETHENE	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.38 J [MDL=0.17]	0.35 J [MDL=0.17]	0.65 J [MDL=0.17]	0.44 J [MDL=0.17]	0.53 J [MDL=0.17]	0.51 J [MDL=0.17]	0.48 J [MDL=0.17]	0.58 J [MDL=0.17]	0.56 J [MDL=0.17]
CIS-1,3-DICHLOROPROPENE	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]
DIBROMOMETHANE	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]
DICHLORODIFLUOROMETHANE	0.31 U [MDL=0.31]	0.31 U [MDL=0.31]	0.31 U [MDL=0.31]	0.31 U [MDL=0.31]	0.31 U [MDL=0.31]	0.31 U [MDL=0.31]	0.31 U [MDL=0.31]	0.31 U [MDL=0.31]	0.31 U [MDL=0.31]	0.31 U [MDL=0.31]	0.31 U [MDL=0.31]
DIISOPROPYL ETHER	1.5 U [MDL=1.5]	1.5 U [MDL=1.5]	1.5 U [MDL=1.5]	1.5 U [MDL=1.5]	1.5 U [MDL=1.5]	1.5 U [MDL=1.5]	1.5 U [MDL=1.5]	1.5 U [MDL=1.5]	1.5 U [MDL=1.5]	1.5 U [MDL=1.5]	1.5 U [MDL=1.5]

TABLE C-1

CHEMICAL RESULTS FOR SURFACE WATER SAMPLES - JULY 2013
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

LOCATION	EL-SW01A	EL-SW01B	EL-SW01C	EL-SW01D	MSA-SW-37A	MSA-SW-37B	MSA-SW-37C	MSA-SW-37D	MSA-SW-38A	MSA-SW-38B	MSA-SW-38C
SAMPLE ID	EL-SW01A-071813	EL-SW01B-071813	EL-SW01C-071813	EL-SW01D-071813	MSA-SW37A-071813	MSA-SW37B-071813	MSA-SW37C-071813	MSA-SW37D-071813	MSA-SW38A-071813	MSA-SW38B-071813	MSA-SW38C-071813
SAMPLE DATE	7/18/2013	7/18/2013	7/18/2013	7/18/2013	7/18/2013	7/18/2013	7/18/2013	7/18/2013	7/18/2013	7/18/2013	7/18/2013
ETHYL TERT-BUTYL ETHER	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]
ETHYLBENZENE	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]
HEXACHLOROBUTADIENE	0.3 UJ [MDL=0.3]	0.3 UJ [MDL=0.3]	0.3 UJ [MDL=0.3]	0.3 UJ [MDL=0.3]	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]
ISOPROPYLBENZENE	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]
M+P-XYLENES	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]
METHYL TERT-BUTYL ETHER	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]
METHYLENE CHLORIDE	0.33 U [MDL=0.33]	0.33 U [MDL=0.33]	0.33 U [MDL=0.33]	0.33 U [MDL=0.33]	0.33 U [MDL=0.33]	0.33 U [MDL=0.33]	0.33 U [MDL=0.33]	0.33 U [MDL=0.33]	0.33 U [MDL=0.33]	0.33 U [MDL=0.33]	0.33 U [MDL=0.33]
NAPHTHALENE	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]
N-BUTYLBENZENE	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]
N-PROPYLBENZENE	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]
O-XYLENE	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]
SEC-BUTYLBENZENE	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]
STYRENE	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]
TERT-AMYL METHYL ETHER	0.067 U [MDL=0.067]	0.067 U [MDL=0.067]	0.067 U [MDL=0.067]	0.067 U [MDL=0.067]	0.067 U [MDL=0.067]	0.067 U [MDL=0.067]	0.067 U [MDL=0.067]	0.067 U [MDL=0.067]	0.067 U [MDL=0.067]	0.067 U [MDL=0.067]	0.067 U [MDL=0.067]
TERT-BUTYLBENZENE	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]
TERTIARY-BUTYL ALCOHOL	3.9 UR [MDL=3.9]	3.9 UR [MDL=3.9]	3.9 UR [MDL=3.9]	3.9 UR [MDL=3.9]	3.9 UR [MDL=3.9]	3.9 UR [MDL=3.9]	3.9 UR [MDL=3.9]	3.9 UR [MDL=3.9]	3.9 UR [MDL=3.9]	3.9 UR [MDL=3.9]	3.9 UR [MDL=3.9]
TETRACHLOROETHENE	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]
TOLUENE	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]
TOTAL XYLENES	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]
TRANS-1,2-DICHLOROETHENE	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]
TRANS-1,3-DICHLOROPROPENE	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]
TRICHLOROETHENE	0.59 J [MDL=0.17]	0.64 J [MDL=0.17]	0.66 J [MDL=0.17]	0.64 J [MDL=0.17]	0.5 J [MDL=0.17]	0.64 J [MDL=0.17]	1.1 [MDL=0.17]	0.83 J [MDL=0.17]	0.84 J [MDL=0.17]	0.94 J [MDL=0.17]	1.1 [MDL=0.17]
TRICHLOROFLUOROMETHANE	0.21 U [MDL=0.21]	0.21 U [MDL=0.21]	0.21 U [MDL=0.21]	0.21 U [MDL=0.21]	0.21 U [MDL=0.21]	0.21 U [MDL=0.21]	0.21 U [MDL=0.21]	0.21 U [MDL=0.21]	0.21 U [MDL=0.21]	0.21 U [MDL=0.21]	0.21 U [MDL=0.21]
VINYL ACETATE	0.19 UR [MDL=0.19]	0.19 UR [MDL=0.19]	0.19 UR [MDL=0.19]	0.19 UR [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]
VINYL CHLORIDE	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	1 [MDL=0.22]	0.29 J [MDL=0.22]	0.23 J [MDL=0.22]	0.29 J [MDL=0.22]	0.38 J [MDL=0.22]	0.27 J [MDL=0.22]	0.24 J [MDL=0.22]
DISSOLVED METALS (UG/L)											
ANTIMONY	NA	NA	NA	NA	0.42 B [MDL=0.11]	0.46 B [MDL=0.11]	0.33 B [MDL=0.11]	0.27 B [MDL=0.11]	0.28 B [MDL=0.11]	0.28 B [MDL=0.11]	0.24 B [MDL=0.11]
ARSENIC	NA	NA	NA	NA	2.4 J [MDL=0.063]	2.7 J [MDL=0.063]	2.5 J [MDL=0.063]	2.3 J [MDL=0.063]	2.2 J [MDL=0.063]	2.2 J [MDL=0.063]	2.2 J [MDL=0.063]
BARIUM	NA	NA	NA	NA	23 [MDL=0.32]	24 [MDL=0.32]	24 [MDL=0.32]	23 [MDL=0.32]	23 [MDL=0.32]	23 [MDL=0.32]	23 [MDL=0.32]
BERYLLIUM	NA	NA	NA	NA	0.3 B [MDL=0.031]	0.5 B [MDL=0.031]	0.3 B [MDL=0.031]	0.17 B [MDL=0.031]	0.15 B [MDL=0.031]	0.15 B [MDL=0.031]	0.11 B [MDL=0.031]
CADMIUM	NA	NA	NA	NA	0.14 B [MDL=0.026]	0.46 J [MDL=0.026]	0.094 B [MDL=0.026]	0.037 B [MDL=0.026]	0.067 B [MDL=0.026]	0.066 B [MDL=0.026]	0.026 U [MDL=0.026]
CHROMIUM	NA	NA	NA	NA	0.38 J [MDL=0.13]	0.69 J [MDL=0.13]	0.47 J [MDL=0.13]	0.27 J [MDL=0.13]	0.24 J [MDL=0.13]	0.27 J [MDL=0.13]	0.23 J [MDL=0.13]
COBALT	NA	NA	NA	NA	0.24 B [MDL=0.02]	0.52 J [MDL=0.02]	0.18 B [MDL=0.02]	0.1 B [MDL=0.02]	0.14 B [MDL=0.02]	0.11 B [MDL=0.02]	0.094 B [MDL=0.02]
COPPER	NA	NA	NA	NA	6.4 B [MDL=0.24]	7.1 B [MDL=0.24]	7.2 B [MDL=0.24]	7 B [MDL=0.24]	7.2 B [MDL=0.24]	7.4 B [MDL=0.24]	7.6 B [MDL=0.24]
LEAD	NA	NA	NA	NA	0.47 B [MDL=0.14]	0.86 J [MDL=0.14]	0.33 B [MDL=0.14]	0.19 B [MDL=0.14]	0.15 B [MDL=0.14]	0.15 B [MDL=0.14]	0.14 U [MDL=0.14]
MERCURY	NA	NA	NA	NA	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]
MOLYBDENUM	NA	NA	NA	NA	1.7 J [MDL=0.81]	1.8 J [MDL=0.81]	1.8 J [MDL=0.81]	1.7 J [MDL=0.81]	1.6 J [MDL=0.81]	1.7 J [MDL=0.81]	1.7 J [MDL=0.81]
NICKEL	NA	NA	NA	NA	1.5 J [MDL=0.088]	2 [MDL=0.088]	1.8 J [MDL=0.088]	1.4 J [MDL=0.088]	1.8 J [MDL=0.088]	1.5 J [MDL=0.088]	1.3 J [MDL=0.088]
SELENIUM	NA	NA	NA	NA	1.2 B [MDL=0.34]	1.5 B [MDL=0.34]	1.1 B [MDL=0.34]	0.78 B [MDL=0.34]	0.91 B [MDL=0.34]	0.83 B [MDL=0.34]	0.65 B [MDL=0.34]
SILVER	NA	NA	NA	NA	0.015 B [MDL=0.0083]	0.045 B [MDL=0.0083]	0.016 B [MDL=0.0083]	0.013 B [MDL=0.0083]	0.014 B [MDL=0.0083]	0.014 B [MDL=0.0083]	0.019 B [MDL=0.0083]
THALLIUM	NA	NA	NA	NA	0.4 U [MDL=0.4]	0.4 U [MDL=0.4]	0.4 U [MDL=0.4]	0.4 U [MDL=0.4]	0.4 U [MDL=0.4]	0.4 U [MDL=0.4]	0.4 U [MDL=0.4]
TUNGSTEN	NA	NA	NA	NA	0.26 B [MDL=0.017]	0.31 B [MDL=0.017]	0.12 B [MDL=0.017]	0.096 B [MDL=0.017]	0.077 B [MDL=0.017]	0.083 B [MDL=0.017]	0.094 B [MDL=0.017]
VANADIUM	NA	NA	NA	NA	3 B [MDL=0.15]	3.2 B [MDL=0.15]	3.2 B [MDL=0.15]	3.1 B [MDL=0.15]	3 B [MDL=0.15]	3.2 B [MDL=0.15]	3.3 B [MDL=0.15]
ZINC	NA	NA	NA	NA	3 J [MDL=2.1]	4.4 J [MDL=2.1]	8.8 J [MDL=2.1]	4.2 J [MDL=2.1]	4.2 J [MDL=2.1]	5.8 J [MDL=2.1]	3.2 J [MDL=2.1]
MISCELLANEOUS PARAMETERS											
CALCIUM HARDNESS AS CACO3 (MG/L)	NA	NA	NA	NA	98 [RL=12]	98 [RL=12]	100 [RL=12]	99 [RL=12]	97 [RL=12]	100 [RL=12]	99 [RL=12]
HARDNESS AS CACO3 (MG/L)	NA	NA	NA	NA	380 [RL=33]	380 [RL=33]	400 [RL=33]	390 [RL=33]	380 [RL=33]	390 [RL=33]	390 [RL=33]
MAGNESIUM HARDNESS AS CACO3 (MG/L)	NA	NA	NA	NA	290 [RL=21]	280 [RL=21]	290 [RL=21]	290 [RL=21]	280 [RL=21]	290 [RL=21]	290 [RL=21]

TABLE C-1

CHEMICAL RESULTS FOR SURFACE WATER SAMPLES - JULY 2013
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

LOCATION	MSA-SW-38D	MSA-SW-39A	MSA-SW-39B	MSA-SW-39C	MSA-SW-39D	MSA-SW-40A	MSA-SW-40B	MSA-SW-40C	MSA-SW-40D	MSA-SW-41A	MSA-SW-41B
SAMPLE ID	MSA-SW38D-071813	MSA-SW39A-071813	MSA-SW39B-071813	MSA-SW39C-071813	MSA-SW39D-071813	MSA-SW40A-071813	MSA-SW40B-071813	MSA-SW40C-071813	MSA-SW40D-071813	MSA-SW41A-071813	MSA-SW41B-071813
SAMPLE DATE	7/18/2013	7/18/2013	7/18/2013	7/18/2013	7/18/2013	7/18/2013	7/18/2013	7/18/2013	7/18/2013	7/18/2013	7/18/2013
VOLATILES (UG/L)											
1,1,1,2-TETRACHLOROETHANE	0.23 U [MDL=0.23]	0.23 U [MDL=0.23]	0.23 U [MDL=0.23]	0.23 U [MDL=0.23]	0.23 U [MDL=0.23]	0.23 U [MDL=0.23]	0.23 U [MDL=0.23]	0.23 U [MDL=0.23]	0.23 U [MDL=0.23]	0.23 U [MDL=0.23]	0.23 U [MDL=0.23]
1,1,1-TRICHLOROETHANE	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]
1,1,2,2-TETRACHLOROETHANE	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]
1,1,2-TRICHLOROTRIFLUOROETHANE	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]
1,1-DICHLOROETHANE	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]
1,1-DICHLOROETHENE	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]
1,1-DICHLOROPROPENE	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]
1,2,3-TRICHLOROBENZENE	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]
1,2,3-TRICHLOROPROPANE	0.43 U [MDL=0.43]	0.43 U [MDL=0.43]	0.43 U [MDL=0.43]	0.43 U [MDL=0.43]	0.43 U [MDL=0.43]	0.43 U [MDL=0.43]	0.43 U [MDL=0.43]	0.43 U [MDL=0.43]	0.43 U [MDL=0.43]	0.43 U [MDL=0.43]	0.43 U [MDL=0.43]
1,2,3-TRIMETHYLBENZENE	0.0059 U [MDL=0.0059]	0.0059 U [MDL=0.0059]	0.0059 U [MDL=0.0059]	0.0059 U [MDL=0.0059]	0.0059 U [MDL=0.0059]	0.0059 U [MDL=0.0059]	0.0059 U [MDL=0.0059]	0.0059 U [MDL=0.0059]	0.0059 U [MDL=0.0059]	0.0059 U [MDL=0.0059]	0.0059 U [MDL=0.0059]
1,2,4-TRICHLOROBENZENE	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]
1,2,4-TRIMETHYLBENZENE	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]
1,2-DIBROMO-3-CHLOROPROPANE	0.67 U [MDL=0.67]	0.67 U [MDL=0.67]	0.67 U [MDL=0.67]	0.67 U [MDL=0.67]	0.67 U [MDL=0.67]	0.67 U [MDL=0.67]	0.67 U [MDL=0.67]	0.67 U [MDL=0.67]	0.67 U [MDL=0.67]	0.67 U [MDL=0.67]	0.67 U [MDL=0.67]
1,2-DIBROMOETHANE	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]
1,2-DICHLOROBENZENE	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]
1,2-DICHLOROETHANE	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]
1,2-DICHLOROPROPANE	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]
1,3-DICHLOROBENZENE	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]
1,3-DICHLOROPROPANE	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]
1,4-DICHLOROBENZENE	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]
2,2-DICHLOROPROPANE	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]
2-BUTANONE	0.57 U [MDL=0.57]	0.57 U [MDL=0.57]	0.57 U [MDL=0.57]	0.57 U [MDL=0.57]	0.57 U [MDL=0.57]	0.57 U [MDL=0.57]	0.57 U [MDL=0.57]	0.57 U [MDL=0.57]	0.57 U [MDL=0.57]	0.57 U [MDL=0.57]	0.57 U [MDL=0.57]
2-CHLOROETHYL VINYL ETHER	0.99 U [MDL=0.99]	0.99 U [MDL=0.99]	0.99 U [MDL=0.99]	0.99 U [MDL=0.99]	0.99 U [MDL=0.99]	0.99 U [MDL=0.99]	0.99 U [MDL=0.99]	0.99 U [MDL=0.99]	0.99 U [MDL=0.99]	0.99 U [MDL=0.99]	0.99 U [MDL=0.99]
2-CHLOROTOLUENE	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]
2-HEXANONE	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]
4-CHLOROTOLUENE	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]
4-ISOPROPYLTOLUENE	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]
4-METHYL-2-PENTANONE	0.32 U [MDL=0.32]	0.32 U [MDL=0.32]	0.32 U [MDL=0.32]	0.32 U [MDL=0.32]	0.32 U [MDL=0.32]	0.32 U [MDL=0.32]	0.32 U [MDL=0.32]	0.32 U [MDL=0.32]	0.32 U [MDL=0.32]	0.32 U [MDL=0.32]	0.32 U [MDL=0.32]
ACETONE	1.1 U [MDL=1.1]	1.1 U [MDL=1.1]	1.1 U [MDL=1.1]	1.1 U [MDL=1.1]	1.1 U [MDL=1.1]	1.1 U [MDL=1.1]	1.1 U [MDL=1.1]	1.1 U [MDL=1.1]	1.1 U [MDL=1.1]	1.1 U [MDL=1.1]	1.1 U [MDL=1.1]
BENZENE	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]
BROMOBENZENE	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]
BROMOCHLOROMETHANE	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]
BROMODICHLOROMETHANE	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]
BROMOFORM	0.64 U [MDL=0.64]	0.64 U [MDL=0.64]	0.64 U [MDL=0.64]	0.64 U [MDL=0.64]	0.64 U [MDL=0.64]	0.64 U [MDL=0.64]	0.64 U [MDL=0.64]	0.64 U [MDL=0.64]	0.64 U [MDL=0.64]	0.64 U [MDL=0.64]	0.64 U [MDL=0.64]
BROMOMETHANE	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]
CARBON DISULFIDE	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]
CARBON TETRACHLORIDE	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]
CHLOROBENZENE	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]
CHLORODIBROMOMETHANE	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]
CHLOROETHANE	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]
CHLOROFORM	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]
CHLOROMETHANE	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]
CIS-1,2-DICHLOROETHENE	0.56 J [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.5 J [MDL=0.17]	0.55 J [MDL=0.17]	0.38 J [MDL=0.17]	0.38 J [MDL=0.17]	1.1 [MDL=0.17]	0.51 J [MDL=0.17]
CIS-1,3-DICHLOROPROPENE	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]
DIBROMOMETHANE	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]
DICHLORODIFLUOROMETHANE	0.31 U [MDL=0.31]	0.31 U [MDL=0.31]	0.31 U [MDL=0.31]	0.31 U [MDL=0.31]	0.31 U [MDL=0.31]	0.31 U [MDL=0.31]	0.31 U [MDL=0.31]	0.31 U [MDL=0.31]	0.31 U [MDL=0.31]	0.31 U [MDL=0.31]	0.31 U [MDL=0.31]
DIISOPROPYL ETHER	1.5 U [MDL=1.5]	1.5 U [MDL=1.5]	1.5 U [MDL=1.5]	1.5 U [MDL=1.5]	1.5 U [MDL=1.5]	1.5 U [MDL=1.5]	1.5 U [MDL=1.5]	1.5 U [MDL=1.5]	1.5 U [MDL=1.5]	1.5 U [MDL=1.5]	1.5 U [MDL=1.5]

TABLE C-1

CHEMICAL RESULTS FOR SURFACE WATER SAMPLES - JULY 2013
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

LOCATION SAMPLE ID SAMPLE DATE	MSA-SW-38D MSA-SW38D-071813 7/18/2013	MSA-SW-39A MSA-SW39A-071813 7/18/2013	MSA-SW-39B MSA-SW39B-071813 7/18/2013	MSA-SW-39C MSA-SW39C-071813 7/18/2013	MSA-SW-39D MSA-SW39D-071813 7/18/2013	MSA-SW-40A MSA-SW40A-071813 7/18/2013	MSA-SW-40B MSA-SW40B-071813 7/18/2013	MSA-SW-40C MSA-SW40C-071813 7/18/2013	MSA-SW-40D MSA-SW40D-071813 7/18/2013	MSA-SW-41A MSA-SW41A-071813 7/18/2013	MSA-SW-41B MSA-SW41B-071813 7/18/2013
ETHYL TERT-BUTYL ETHER	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]
ETHYLBENZENE	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]
HEXACHLOROBUTADIENE	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]
ISOPROPYLBENZENE	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]
M+P-XYLENES	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]
METHYL TERT-BUTYL ETHER	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]
METHYLENE CHLORIDE	0.33 U [MDL=0.33]	0.33 U [MDL=0.33]	0.33 U [MDL=0.33]	0.33 U [MDL=0.33]	0.33 U [MDL=0.33]	0.33 U [MDL=0.33]	0.33 U [MDL=0.33]	0.33 U [MDL=0.33]	0.33 U [MDL=0.33]	0.33 U [MDL=0.33]	0.33 U [MDL=0.33]
NAPHTHALENE	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]
N-BUTYLBENZENE	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]
N-PROPYLBENZENE	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]
O-XYLENE	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]
SEC-BUTYLBENZENE	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]
STYRENE	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]
TERT-AMYL METHYL ETHER	0.067 U [MDL=0.067]	0.067 U [MDL=0.067]	0.067 U [MDL=0.067]	0.067 U [MDL=0.067]	0.067 U [MDL=0.067]	0.067 U [MDL=0.067]	0.067 U [MDL=0.067]	0.067 U [MDL=0.067]	0.067 U [MDL=0.067]	0.067 U [MDL=0.067]	0.067 U [MDL=0.067]
TERT-BUTYLBENZENE	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]
TERTIARY-BUTYL ALCOHOL	3.9 UR [MDL=3.9]	3.9 UR [MDL=3.9]	3.9 UR [MDL=3.9]	3.9 UR [MDL=3.9]	3.9 UR [MDL=3.9]	3.9 UR [MDL=3.9]	3.9 UR [MDL=3.9]	3.9 UR [MDL=3.9]	3.9 UR [MDL=3.9]	3.9 UR [MDL=3.9]	3.9 UR [MDL=3.9]
TETRACHLOROETHENE	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]
TOLUENE	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.28 J [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]
TOTAL XYLENES	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]
TRANS-1,2-DICHLOROETHENE	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]
TRANS-1,3-DICHLOROPROPENE	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]
TRICHLOROETHENE	1.5 [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.26 J [MDL=0.17]	0.24 J [MDL=0.17]	0.63 J [MDL=0.17]	1.2 [MDL=0.17]	1.1 [MDL=0.17]	0.56 J [MDL=0.17]	1.7 [MDL=0.17]	1.1 [MDL=0.17]
TRICHLOROFLUOROMETHANE	0.21 U [MDL=0.21]	0.21 U [MDL=0.21]	0.21 U [MDL=0.21]	0.21 U [MDL=0.21]	0.21 U [MDL=0.21]	0.21 U [MDL=0.21]	0.21 U [MDL=0.21]	0.21 U [MDL=0.21]	0.21 U [MDL=0.21]	0.21 U [MDL=0.21]	0.21 U [MDL=0.21]
VINYL ACETATE	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]
VINYL CHLORIDE	0.23 J [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.33 J [MDL=0.22]	0.32 J [MDL=0.22]	0.24 J [MDL=0.22]	0.22 U [MDL=0.22]	0.37 J [MDL=0.22]	0.33 J [MDL=0.22]
DISSOLVED METALS (UG/L)											
ANTIMONY	0.26 B [MDL=0.11]	0.22 B [MDL=0.11]	0.22 B [MDL=0.11]	0.22 B [MDL=0.11]	0.23 B [MDL=0.11]	0.24 B [MDL=0.11]	0.28 B [MDL=0.11]	0.26 B [MDL=0.11]	0.25 B [MDL=0.11]	0.24 B [MDL=0.11]	0.22 B [MDL=0.11]
ARSENIC	2.3 J [MDL=0.063]	1.7 J [MDL=0.063]	1.7 J [MDL=0.063]	1.8 J [MDL=0.063]	1.8 J [MDL=0.063]	2.4 J [MDL=0.063]	2.5 J [MDL=0.063]	2.2 J [MDL=0.063]	2.2 J [MDL=0.063]	2.4 J [MDL=0.063]	2.2 J [MDL=0.063]
BARIUM	24 [MDL=0.32]	21 [MDL=0.32]	21 [MDL=0.32]	22 [MDL=0.32]	22 [MDL=0.32]	23 [MDL=0.32]	24 [MDL=0.32]	22 [MDL=0.32]	23 [MDL=0.32]	24 [MDL=0.32]	22 [MDL=0.32]
BERYLLIUM	0.08 B [MDL=0.031]	0.12 B [MDL=0.031]	0.088 B [MDL=0.031]	0.083 B [MDL=0.031]	0.066 B [MDL=0.031]	0.07 B [MDL=0.031]	0.067 B [MDL=0.031]	0.05 B [MDL=0.031]	0.061 B [MDL=0.031]	0.049 B [MDL=0.031]	0.035 B [MDL=0.031]
CADMIUM	0.034 B [MDL=0.026]	0.026 U [MDL=0.026]	0.026 U [MDL=0.026]	0.028 B [MDL=0.026]	0.028 B [MDL=0.026]	0.06 B [MDL=0.026]	0.047 B [MDL=0.026]	0.026 U [MDL=0.026]	0.026 U [MDL=0.026]	0.045 B [MDL=0.026]	0.037 B [MDL=0.026]
CHROMIUM	0.38 J [MDL=0.13]	0.35 J [MDL=0.13]	0.23 J [MDL=0.13]	0.23 J [MDL=0.13]	0.28 J [MDL=0.13]	0.44 J [MDL=0.13]	0.36 J [MDL=0.13]	0.34 J [MDL=0.13]	0.34 J [MDL=0.13]	0.48 J [MDL=0.13]	0.29 J [MDL=0.13]
COBALT	0.14 B [MDL=0.02]	0.15 B [MDL=0.02]	0.091 B [MDL=0.02]	0.075 B [MDL=0.02]	0.062 B [MDL=0.02]	0.15 B [MDL=0.02]	0.093 B [MDL=0.02]	0.076 B [MDL=0.02]	0.09 B [MDL=0.02]	0.21 B [MDL=0.02]	0.087 B [MDL=0.02]
COPPER	7.9 B [MDL=0.24]	3.3 B [MDL=0.24]	3.1 B [MDL=0.24]	3.3 B [MDL=0.24]	3.2 B [MDL=0.24]	3.8 B [MDL=0.24]	3.5 B [MDL=0.24]	3.7 B [MDL=0.24]	3.8 B [MDL=0.24]	4.4 B [MDL=0.24]	3.6 B [MDL=0.24]
LEAD	0.21 B [MDL=0.14]	0.25 B [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.2 B [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.28 B [MDL=0.14]	0.14 U [MDL=0.14]
MERCURY	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]
MOLYBDENUM	1.7 J [MDL=0.81]	1.6 J [MDL=0.81]	1.7 J [MDL=0.81]	1.7 J [MDL=0.81]	1.7 J [MDL=0.81]	1.7 J [MDL=0.81]	1.8 J [MDL=0.81]	1.6 J [MDL=0.81]	1.7 J [MDL=0.81]	1.7 J [MDL=0.81]	1.7 J [MDL=0.81]
NICKEL	1.3 J [MDL=0.088]	1.3 J [MDL=0.088]	1.4 J [MDL=0.088]	1.3 J [MDL=0.088]	1.3 J [MDL=0.088]	1.3 J [MDL=0.088]	1.3 J [MDL=0.088]	1.3 J [MDL=0.088]	1.4 J [MDL=0.088]	1.4 J [MDL=0.088]	1.3 J [MDL=0.088]
SELENIUM	1 B [MDL=0.34]	0.79 B [MDL=0.34]	0.9 B [MDL=0.34]	0.94 B [MDL=0.34]	0.72 B [MDL=0.34]	0.82 B [MDL=0.34]	0.74 B [MDL=0.34]	0.85 B [MDL=0.34]	0.65 B [MDL=0.34]	0.76 B [MDL=0.34]	0.72 B [MDL=0.34]
SILVER	0.014 B [MDL=0.0083]	0.011 B [MDL=0.0083]	0.0083 U [MDL=0.0083]	0.011 B [MDL=0.0083]	0.011 B [MDL=0.0083]	0.013 B [MDL=0.0083]	0.012 B [MDL=0.0083]	0.0083 U [MDL=0.0083]	0.009 B [MDL=0.0083]	0.0083 U [MDL=0.0083]	0.022 B [MDL=0.0083]
THALLIUM	0.4 U [MDL=0.4]	0.4 U [MDL=0.4]	0.4 U [MDL=0.4]	0.4 U [MDL=0.4]	0.4 U [MDL=0.4]	0.4 U [MDL=0.4]	0.4 U [MDL=0.4]	0.4 U [MDL=0.4]	0.4 U [MDL=0.4]	0.4 U [MDL=0.4]	0.4 U [MDL=0.4]
TUNGSTEN	0.084 B [MDL=0.017]	0.087 B [MDL=0.017]	0.068 B [MDL=0.017]	0.063 B [MDL=0.017]	0.07 B [MDL=0.017]	0.084 B [MDL=0.017]	0.082 B [MDL=0.017]	0.077 B [MDL=0.017]	0.086 B [MDL=0.017]	0.086 B [MDL=0.017]	0.073 B [MDL=0.017]
VANADIUM	3.3 B [MDL=0.15]	2.9 B [MDL=0.15]	3.2 B [MDL=0.15]	3.3 B [MDL=0.15]	3.3 B [MDL=0.15]	3.5 B [MDL=0.15]	3.8 B [MDL=0.15]	3.4 B [MDL=0.15]	3.5 B [MDL=0.15]	3.8 B [MDL=0.15]	3.7 B [MDL=0.15]
ZINC	6.1 J [MDL=2.1]	7.4 J [MDL=2.1]	3.3 J [MDL=2.1]	4.7 J [MDL=2.1]	2.7 J [MDL=2.1]	3.7 J [MDL=2.1]	6.1 J [MDL=2.1]	4.7 J [MDL=2.1]	4.3 J [MDL=2.1]	5.4 J [MDL=2.1]	5.2 J [MDL=2.1]
MISCELLANEOUS PARAMETERS											
CALCIUM HARDNESS AS CACO3 (MG/L)	100 [RL=12]	95 [RL=12]	99 [RL=12]	99 [RL=12]	100 [RL=12]	98 [RL=12]	110 [RL=12]	98 [RL=12]	99 [RL=12]	100 [RL=12]	99 [RL=12]
HARDNESS AS CACO3 (MG/L)	390 [RL=33]	370 [RL=33]	390 [RL=33]	390 [RL=33]	390 [RL=33]	380 [RL=33]	410 [RL=33]	380 [RL=33]	390 [RL=33]	390 [RL=33]	390 [RL=33]
MAGNESIUM HARDNESS AS CACO3 (MG/L)	290 [RL=21]	280 [RL=21]	290 [RL=21]	290 [RL=21]	290 [RL=21]	290 [RL=21]	310 [RL=21]	280 [RL=21]	290 [RL=21]	290 [RL=21]	290 [RL=21]

TABLE C-1

CHEMICAL RESULTS FOR SURFACE WATER SAMPLES - JULY 2013
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

LOCATION	MSA-SW-41C	MSA-SW-41D	MSA-SW-42A	MSA-SW-42B	MSA-SW-42C	MSA-SW-42D	MSA-SW-43A	MSA-SW-43B	MSA-SW-43C	MSA-SW-43D	MSA-SW-44A
SAMPLE ID	MSA-SW41C-071813	MSA-SW41D-071813	MSA-SW42A-071813	MSA-SW42B-071813	MSA-SW42C-071813	MSA-SW42D-071813	MSA-SW43A-071813	MSA-SW43B-071813	MSA-SW43C-071813	MSA-SW43D-071813	MSA-SW44A-071813
SAMPLE DATE	7/18/2013	7/18/2013	7/18/2013	7/18/2013	7/18/2013	7/18/2013	7/18/2013	7/18/2013	7/18/2013	7/18/2013	7/18/2013
VOLATILES (UG/L)											
1,1,1,2-TETRACHLOROETHANE	0.23 U [MDL=0.23]	0.23 U [MDL=0.23]	0.23 U [MDL=0.23]	0.23 U [MDL=0.23]	0.23 U [MDL=0.23]	0.23 U [MDL=0.23]	0.23 U [MDL=0.23]	0.23 U [MDL=0.23]	0.23 U [MDL=0.23]	0.23 U [MDL=0.23]	0.23 U [MDL=0.23]
1,1,1-TRICHLOROETHANE	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]
1,1,2,2-TETRACHLOROETHANE	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]
1,1,2-TRICHLOROTRIFLUOROETHANE	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]
1,1-DICHLOROETHANE	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]
1,1-DICHLOROETHENE	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]
1,1-DICHLOROPROPENE	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]
1,2,3-TRICHLOROBENZENE	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 UJ [MDL=0.17]	0.17 UJ [MDL=0.17]	0.17 UJ [MDL=0.17]	0.17 UJ [MDL=0.17]	0.17 UJ [MDL=0.17]	0.17 UJ [MDL=0.17]	0.17 UJ [MDL=0.17]	0.17 UJ [MDL=0.17]	0.17 UJ [MDL=0.17]
1,2,3-TRICHLOROPROPANE	0.43 U [MDL=0.43]	0.43 U [MDL=0.43]	0.43 U [MDL=0.43]	0.43 U [MDL=0.43]	0.43 U [MDL=0.43]	0.43 U [MDL=0.43]	0.43 U [MDL=0.43]	0.43 U [MDL=0.43]	0.43 U [MDL=0.43]	0.43 U [MDL=0.43]	0.43 U [MDL=0.43]
1,2,3-TRIMETHYLBENZENE	0.0059 U [MDL=0.0059]	0.0059 U [MDL=0.0059]	0.0059 U [MDL=0.0059]	0.0059 U [MDL=0.0059]	0.0059 U [MDL=0.0059]	0.0059 U [MDL=0.0059]	0.0059 U [MDL=0.0059]	0.0059 U [MDL=0.0059]	0.0059 U [MDL=0.0059]	0.0059 U [MDL=0.0059]	0.0059 U [MDL=0.0059]
1,2,4-TRICHLOROBENZENE	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 UJ [MDL=0.15]	0.15 UJ [MDL=0.15]	0.15 UJ [MDL=0.15]	0.15 UJ [MDL=0.15]	0.15 UJ [MDL=0.15]	0.15 UJ [MDL=0.15]	0.15 UJ [MDL=0.15]	0.15 UJ [MDL=0.15]	0.15 UJ [MDL=0.15]
1,2,4-TRIMETHYLBENZENE	0.12 U [MDL=0.12]	0.17 J [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]
1,2-DIBROMO-3-CHLOROPROPANE	0.67 U [MDL=0.67]	0.67 U [MDL=0.67]	0.67 U [MDL=0.67]	0.67 U [MDL=0.67]	0.67 U [MDL=0.67]	0.67 U [MDL=0.67]	0.67 U [MDL=0.67]	0.67 U [MDL=0.67]	0.67 U [MDL=0.67]	0.67 U [MDL=0.67]	0.67 U [MDL=0.67]
1,2-DIBROMOETHANE	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]
1,2-DICHLOROBENZENE	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]
1,2-DICHLOROETHANE	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]
1,2-DICHLOROPROPANE	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]
1,3-DICHLOROBENZENE	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]
1,3-DICHLOROPROPANE	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]
1,4-DICHLOROBENZENE	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]
2,2-DICHLOROPROPANE	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]
2-BUTANONE	0.57 U [MDL=0.57]	0.57 U [MDL=0.57]	0.57 U [MDL=0.57]	0.57 U [MDL=0.57]	0.57 U [MDL=0.57]	0.57 U [MDL=0.57]	0.57 U [MDL=0.57]	0.57 U [MDL=0.57]	0.57 U [MDL=0.57]	0.57 U [MDL=0.57]	0.57 U [MDL=0.57]
2-CHLOROETHYL VINYL ETHER	0.99 U [MDL=0.99]	0.99 U [MDL=0.99]	0.99 U [MDL=0.99]	0.99 U [MDL=0.99]	0.99 U [MDL=0.99]	0.99 U [MDL=0.99]	0.99 U [MDL=0.99]	0.99 U [MDL=0.99]	0.99 U [MDL=0.99]	0.99 U [MDL=0.99]	0.99 U [MDL=0.99]
2-CHLOROTOLUENE	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]
2-HEXANONE	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]
4-CHLOROTOLUENE	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]
4-ISOPROPYLTOLUENE	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]
4-METHYL-2-PENTANONE	0.32 U [MDL=0.32]	0.32 U [MDL=0.32]	0.32 U [MDL=0.32]	0.32 U [MDL=0.32]	0.32 U [MDL=0.32]	0.32 U [MDL=0.32]	0.32 U [MDL=0.32]	0.32 U [MDL=0.32]	0.32 U [MDL=0.32]	0.32 U [MDL=0.32]	0.32 U [MDL=0.32]
ACETONE	1.1 U [MDL=1.1]	1.1 U [MDL=1.1]	1.1 U [MDL=1.1]	2.8 J [MDL=1.1]	2.5 J [MDL=1.1]	1.1 U [MDL=1.1]	2.6 J [MDL=1.1]	1.1 U [MDL=1.1]	1.5 J [MDL=1.1]	1.1 U [MDL=1.1]	1.1 U [MDL=1.1]
BENZENE	0.13 U [MDL=0.13]	0.19 J [MDL=0.13]	0.13 U [MDL=0.13]	0.13 J [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 J [MDL=0.13]	0.13 U [MDL=0.13]	0.13 J [MDL=0.13]	0.13 J [MDL=0.13]	0.13 U [MDL=0.13]
BROMOBENZENE	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]
BROMOCHLOROMETHANE	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]
BROMODICHLOROMETHANE	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]
BROMOFORM	0.64 U [MDL=0.64]	0.64 U [MDL=0.64]	0.64 U [MDL=0.64]	0.64 U [MDL=0.64]	0.64 U [MDL=0.64]	0.64 U [MDL=0.64]	0.64 U [MDL=0.64]	0.64 U [MDL=0.64]	0.64 U [MDL=0.64]	0.64 U [MDL=0.64]	0.64 U [MDL=0.64]
BROMOMETHANE	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]
CARBON DISULFIDE	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]
CARBON TETRACHLORIDE	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]
CHLOROBENZENE	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]
CHLORODIBROMOMETHANE	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]
CHLOROETHANE	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]
CHLOROFORM	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]
CHLOROMETHANE	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]
CIS-1,2-DICHLOROETHENE	0.53 J [MDL=0.17]	0.49 J [MDL=0.17]	0.46 J [MDL=0.17]	0.51 J [MDL=0.17]	0.59 J [MDL=0.17]	0.52 J [MDL=0.17]	5.4 [MDL=0.17]	1.3 [MDL=0.17]	0.65 J [MDL=0.17]	0.39 J [MDL=0.17]	0.45 J [MDL=0.17]
CIS-1,3-DICHLOROPROPENE	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]
DIBROMOMETHANE	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]
DICHLORODIFLUOROMETHANE	0.31 U [MDL=0.31]	0.31 U [MDL=0.31]	0.31 U [MDL=0.31]	0.31 U [MDL=0.31]	0.31 U [MDL=0.31]	0.31 U [MDL=0.31]	0.31 U [MDL=0.31]	0.31 U [MDL=0.31]	0.31 U [MDL=0.31]	0.31 U [MDL=0.31]	0.31 U [MDL=0.31]
DIISOPROPYL ETHER	1.5 U [MDL=1.5]	1.5 U [MDL=1.5]	1.5 U [MDL=1.5]	1.5 U [MDL=1.5]	1.5 U [MDL=1.5]	1.5 U [MDL=1.5]	1.5 U [MDL=1.5]	1.5 U [MDL=1.5]	1.5 U [MDL=1.5]	1.5 U [MDL=1.5]	1.5 U [MDL=1.5]

TABLE C-1

CHEMICAL RESULTS FOR SURFACE WATER SAMPLES - JULY 2013
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

LOCATION SAMPLE ID SAMPLE DATE	MSA-SW-41C MSA-SW41C-071813 7/18/2013	MSA-SW-41D MSA-SW41D-071813 7/18/2013	MSA-SW-42A MSA-SW42A-071813 7/18/2013	MSA-SW-42B MSA-SW42B-071813 7/18/2013	MSA-SW-42C MSA-SW42C-071813 7/18/2013	MSA-SW-42D MSA-SW42D-071813 7/18/2013	MSA-SW-43A MSA-SW43A-071813 7/18/2013	MSA-SW-43B MSA-SW43B-071813 7/18/2013	MSA-SW-43C MSA-SW43C-071813 7/18/2013	MSA-SW-43D MSA-SW43D-071813 7/18/2013	MSA-SW-44A MSA-SW44A-071813 7/18/2013
ETHYL TERT-BUTYL ETHER	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]
ETHYLBENZENE	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]
HEXACHLOROBUTADIENE	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]	0.3 UJ [MDL=0.3]	0.3 UJ [MDL=0.3]	0.3 UJ [MDL=0.3]	0.3 UJ [MDL=0.3]	0.3 UJ [MDL=0.3]	0.3 UJ [MDL=0.3]	0.3 UJ [MDL=0.3]	0.3 UJ [MDL=0.3]	0.3 UJ [MDL=0.3]
ISOPROPYLBENZENE	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]
M+P-XYLENES	0.24 U [MDL=0.24]	0.42 J [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]
METHYL TERT-BUTYL ETHER	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]
METHYLENE CHLORIDE	0.33 U [MDL=0.33]	0.33 U [MDL=0.33]	0.33 U [MDL=0.33]	0.33 U [MDL=0.33]	0.33 U [MDL=0.33]	0.33 U [MDL=0.33]	0.33 U [MDL=0.33]	0.33 U [MDL=0.33]	0.33 U [MDL=0.33]	0.33 U [MDL=0.33]	0.33 U [MDL=0.33]
NAPHTHALENE	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]
N-BUTYLBENZENE	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]
N-PROPYLBENZENE	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]
O-XYLENE	0.14 U [MDL=0.14]	0.21 J [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]
SEC-BUTYLBENZENE	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]
STYRENE	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]
TERT-AMYL METHYL ETHER	0.067 U [MDL=0.067]	0.067 U [MDL=0.067]	0.067 U [MDL=0.067]	0.067 U [MDL=0.067]	0.067 U [MDL=0.067]	0.067 U [MDL=0.067]	0.067 U [MDL=0.067]	0.067 U [MDL=0.067]	0.067 U [MDL=0.067]	0.067 U [MDL=0.067]	0.067 U [MDL=0.067]
TERT-BUTYLBENZENE	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]
TERTIARY-BUTYL ALCOHOL	3.9 UR [MDL=3.9]	3.9 UR [MDL=3.9]	3.9 UR [MDL=3.9]	3.9 UR [MDL=3.9]	3.9 UR [MDL=3.9]	3.9 UR [MDL=3.9]	3.9 UR [MDL=3.9]	3.9 UR [MDL=3.9]	3.9 UR [MDL=3.9]	3.9 UR [MDL=3.9]	3.9 UR [MDL=3.9]
TETRACHLOROETHENE	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]
TOLUENE	0.13 U [MDL=0.13]	0.63 J [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]
TOTAL XYLENES	0.28 U [MDL=0.28]	0.63 J [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]
TRANS-1,2-DICHLOROETHENE	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]
TRANS-1,3-DICHLOROPROPENE	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]
TRICHLOROETHENE	0.93 J [MDL=0.17]	0.85 J [MDL=0.17]	0.68 J [MDL=0.17]	0.91 J [MDL=0.17]	1.3 [MDL=0.17]	1 [MDL=0.17]	3.6 [MDL=0.17]	1.4 [MDL=0.17]	1.1 [MDL=0.17]	0.72 J [MDL=0.17]	0.78 J [MDL=0.17]
TRICHLOROFLUOROMETHANE	0.21 U [MDL=0.21]	0.21 U [MDL=0.21]	0.21 U [MDL=0.21]	0.21 U [MDL=0.21]	0.21 U [MDL=0.21]	0.21 U [MDL=0.21]	0.21 U [MDL=0.21]	0.21 U [MDL=0.21]	0.21 U [MDL=0.21]	0.21 U [MDL=0.21]	0.21 U [MDL=0.21]
VINYL ACETATE	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 UR [MDL=0.19]	0.19 UR [MDL=0.19]	0.19 UR [MDL=0.19]	0.19 UR [MDL=0.19]	0.19 UR [MDL=0.19]	0.19 UR [MDL=0.19]	0.19 UR [MDL=0.19]	0.19 UR [MDL=0.19]	0.19 UR [MDL=0.19]
VINYL CHLORIDE	0.22 J [MDL=0.22]	0.24 J [MDL=0.22]	0.36 J [MDL=0.22]	0.3 J [MDL=0.22]	0.31 J [MDL=0.22]	0.27 J [MDL=0.22]	0.43 J [MDL=0.22]	0.36 J [MDL=0.22]	0.22 J [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]
DISSOLVED METALS (UG/L)											
ANTIMONY	0.28 B [MDL=0.11]	0.24 B [MDL=0.11]	0.51 B [MDL=0.11]	0.52 B [MDL=0.11]	0.38 B [MDL=0.11]	0.35 B [MDL=0.11]	0.32 B [MDL=0.11]	0.3 B [MDL=0.11]	0.3 B [MDL=0.11]	0.29 B [MDL=0.11]	0.28 B [MDL=0.11]
ARSENIC	2.2 J [MDL=0.063]	2.3 J [MDL=0.063]	2.4 J [MDL=0.063]	2.5 J [MDL=0.063]	2.4 J [MDL=0.063]	2.2 J [MDL=0.063]	2.2 J [MDL=0.063]	2.1 J [MDL=0.063]	2.3 J [MDL=0.063]	2.3 J [MDL=0.063]	2.1 J [MDL=0.063]
BARIUM	22 [MDL=0.32]	23 [MDL=0.32]	23 [MDL=0.32]	23 [MDL=0.32]	24 [MDL=0.32]	22 [MDL=0.32]	23 [MDL=0.32]	22 [MDL=0.32]	22 [MDL=0.32]	23 [MDL=0.32]	23 [MDL=0.32]
BERYLLIUM	0.056 B [MDL=0.031]	0.047 B [MDL=0.031]	0.41 B [MDL=0.031]	0.49 B [MDL=0.031]	0.28 B [MDL=0.031]	0.23 B [MDL=0.031]	0.21 B [MDL=0.031]	0.14 B [MDL=0.031]	0.13 B [MDL=0.031]	0.12 B [MDL=0.031]	0.074 B [MDL=0.031]
CADMIUM	0.026 U [MDL=0.026]	0.026 U [MDL=0.026]	0.12 B [MDL=0.026]	0.34 J [MDL=0.026]	0.072 B [MDL=0.026]	0.046 B [MDL=0.026]	0.065 B [MDL=0.026]	0.04 B [MDL=0.026]	0.037 B [MDL=0.026]	0.026 B [MDL=0.026]	0.033 B [MDL=0.026]
CHROMIUM	0.25 J [MDL=0.13]	0.27 J [MDL=0.13]	1.7 B [MDL=0.13]	0.61 B [MDL=0.13]	0.37 B [MDL=0.13]	0.31 B [MDL=0.13]	0.32 B [MDL=0.13]	0.28 B [MDL=0.13]	0.27 B [MDL=0.13]	0.29 B [MDL=0.13]	0.24 B [MDL=0.13]
COBALT	0.071 B [MDL=0.02]	0.091 B [MDL=0.02]	0.24 B [MDL=0.02]	0.39 J [MDL=0.02]	0.13 B [MDL=0.02]	0.11 B [MDL=0.02]	0.14 B [MDL=0.02]	0.11 B [MDL=0.02]	0.091 B [MDL=0.02]	0.096 B [MDL=0.02]	0.092 B [MDL=0.02]
COPPER	3.8 B [MDL=0.24]	3.9 B [MDL=0.24]	5.2 B [MDL=0.24]	7 B [MDL=0.24]	7.7 B [MDL=0.24]	7.7 B [MDL=0.24]	8.1 B [MDL=0.24]	3.9 [MDL=0.24]	0.41 J [MDL=0.24]	4 [MDL=0.24]	3.6 [MDL=0.24]
LEAD	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.72 B [MDL=0.14]	0.92 J [MDL=0.14]	0.36 B [MDL=0.14]	0.26 B [MDL=0.14]	0.18 B [MDL=0.14]	0.18 B [MDL=0.14]	0.14 U [MDL=0.14]	0.14 B [MDL=0.14]	0.14 U [MDL=0.14]
MERCURY	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 J [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]
MOLYBDENUM	1.7 J [MDL=0.81]	1.7 J [MDL=0.81]	1.7 J [MDL=0.81]	1.7 J [MDL=0.81]	1.8 J [MDL=0.81]	1.7 J [MDL=0.81]	1.7 J [MDL=0.81]	1.7 J [MDL=0.81]	1.7 J [MDL=0.81]	1.7 J [MDL=0.81]	1.7 J [MDL=0.81]
NICKEL	1.3 J [MDL=0.088]	1.2 J [MDL=0.088]	2.2 B [MDL=0.088]	1.7 B [MDL=0.088]	1.4 B [MDL=0.088]	1.3 B [MDL=0.088]	1.5 B [MDL=0.088]	1.3 B [MDL=0.088]	1.3 B [MDL=0.088]	1.4 B [MDL=0.088]	1.3 B [MDL=0.088]
SELENIUM	0.67 B [MDL=0.34]	0.89 B [MDL=0.34]	1.1 B [MDL=0.34]	1.3 B [MDL=0.34]	0.95 B [MDL=0.34]	0.8 B [MDL=0.34]	1 B [MDL=0.34]	0.49 B [MDL=0.34]	0.65 B [MDL=0.34]	0.65 B [MDL=0.34]	0.75 B [MDL=0.34]
SILVER	0.01 B [MDL=0.0083]	0.0083 U [MDL=0.0083]	0.043 B [MDL=0.0083]	0.035 B [MDL=0.0083]	0.009 B [MDL=0.0083]	0.0083 U [MDL=0.0083]	0.0083 U [MDL=0.0083]	0.0083 U [MDL=0.0083]	0.0083 U [MDL=0.0083]	0.0083 U [MDL=0.0083]	0.0083 U [MDL=0.0083]
THALLIUM	0.4 U [MDL=0.4]	0.4 U [MDL=0.4]	0.4 U [MDL=0.4]	0.4 U [MDL=0.4]	0.4 U [MDL=0.4]	0.4 U [MDL=0.4]	0.4 U [MDL=0.4]	0.4 U [MDL=0.4]	0.4 U [MDL=0.4]	0.4 U [MDL=0.4]	0.4 U [MDL=0.4]
TUNGSTEN	0.13 B [MDL=0.017]	0.072 B [MDL=0.017]	0.27 B [MDL=0.017]	0.3 B [MDL=0.017]	0.13 B [MDL=0.017]	0.12 B [MDL=0.017]	0.089 B [MDL=0.017]	0.091 B [MDL=0.017]	0.089 B [MDL=0.017]	0.078 B [MDL=0.017]	0.081 B [MDL=0.017]
VANADIUM	3.7 B [MDL=0.15]	3.8 B [MDL=0.15]	2.6 J [MDL=0.15]	3.1 J [MDL=0.15]	3.3 J [MDL=0.15]	3.3 J [MDL=0.15]	3.5 J [MDL=0.15]	3 J [MDL=0.15]	3.5 J [MDL=0.15]	3.7 J [MDL=0.15]	3.7 J [MDL=0.15]
ZINC	3.9 J [MDL=2.1]	3.6 J [MDL=2.1]	7 B [MDL=2.1]	4.2 B [MDL=2.1]	6.1 B [MDL=2.1]	8.1 B [MDL=2.1]	5.8 B [MDL=2.1]	5.4 B [MDL=2.1]	4.6 B [MDL=2.1]	3.5 B [MDL=2.1]	3.1 B [MDL=2.1]
MISCELLANEOUS PARAMETERS											
CALCIUM HARDNESS AS CACO3 (MG/L)	100 [RL=12]	98 [RL=12]	95 [RL=12]	96 [RL=12]	100 [RL=12]	98 [RL=12]	97 [RL=12]	98 [RL=12]	100 [RL=12]	100 [RL=12]	100 [RL=12]
HARDNESS AS CACO3 (MG/L)	390 [RL=33]	380 [RL=33]	380 [RL=33]	380 [RL=33]	400 [RL=33]	380 [RL=33]	390 [RL=33]	380 [RL=33]	400 [RL=33]	400 [RL=33]	400 [RL=33]
MAGNESIUM HARDNESS AS CACO3 (MG/L)	290 [RL=21]	290 [RL=21]	280 [RL=21]	280 [RL=21]	300 [RL=21]	290 [RL=21]	290 [RL=21]	290 [RL=21]	300 [RL=21]	300 [RL=21]	300 [RL=21]

TABLE C-1

CHEMICAL RESULTS FOR SURFACE WATER SAMPLES - JULY 2013
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

LOCATION	MSA-SW-44B	MSA-SW-44C	MSA-SW-44D	MSA-SW-45A	MSA-SW-45B	MSA-SW-45C	MSA-SW-45D
SAMPLE ID	MSA-SW44B-071813	MSA-SW44C-071813	MSA-SW44D-071813	MSA-SW45A-071813	MSA-SW45B-071813	MSA-SW45C-071813	MSA-SW45D-071813
SAMPLE DATE	7/18/2013	7/18/2013	7/18/2013	7/18/2013	7/18/2013	7/18/2013	7/18/2013
VOLATILES (UG/L)							
1,1,1,2-TETRACHLOROETHANE	0.23 U [MDL=0.23]	0.23 U [MDL=0.23]	0.23 U [MDL=0.23]	0.23 U [MDL=0.23]	0.23 U [MDL=0.23]	0.23 U [MDL=0.23]	0.23 U [MDL=0.23]
1,1,1-TRICHLOROETHANE	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]
1,1,2,2-TETRACHLOROETHANE	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]
1,1,2-TRICHLOROTRIFLUOROETHANE	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]
1,1-DICHLOROETHANE	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]
1,1-DICHLOROETHENE	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]
1,1-DICHLOROPROPENE	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]
1,2,3-TRICHLOROBENZENE	0.17 UJ [MDL=0.17]	0.17 UJ [MDL=0.17]	0.17 UJ [MDL=0.17]	0.17 UJ [MDL=0.17]	0.17 UJ [MDL=0.17]	0.17 UJ [MDL=0.17]	0.17 UJ [MDL=0.17]
1,2,3-TRICHLOROPROPANE	0.43 U [MDL=0.43]	0.43 U [MDL=0.43]	0.43 U [MDL=0.43]	0.43 U [MDL=0.43]	0.43 U [MDL=0.43]	0.43 U [MDL=0.43]	0.43 U [MDL=0.43]
1,2,3-TRIMETHYLBENZENE	0.0059 U [MDL=0.0059]	0.0059 U [MDL=0.0059]	0.0059 U [MDL=0.0059]	0.0059 U [MDL=0.0059]	0.0059 U [MDL=0.0059]	0.0059 U [MDL=0.0059]	0.0059 U [MDL=0.0059]
1,2,4-TRICHLOROBENZENE	0.15 UJ [MDL=0.15]	0.15 UJ [MDL=0.15]	0.15 UJ [MDL=0.15]	0.15 UJ [MDL=0.15]	0.15 UJ [MDL=0.15]	0.15 UJ [MDL=0.15]	0.15 UJ [MDL=0.15]
1,2,4-TRIMETHYLBENZENE	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]
1,2-DIBROMO-3-CHLOROPROPANE	0.67 U [MDL=0.67]	0.67 U [MDL=0.67]	0.67 U [MDL=0.67]	0.67 U [MDL=0.67]	0.67 U [MDL=0.67]	0.67 U [MDL=0.67]	0.67 U [MDL=0.67]
1,2-DIBROMOETHANE	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]
1,2-DICHLOROBENZENE	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]
1,2-DICHLOROETHANE	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]
1,2-DICHLOROPROPANE	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]
1,3-DICHLOROBENZENE	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]
1,3-DICHLOROPROPANE	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]
1,4-DICHLOROBENZENE	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]
2,2-DICHLOROPROPANE	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]
2-BUTANONE	0.57 U [MDL=0.57]	0.57 U [MDL=0.57]	0.57 U [MDL=0.57]	0.57 U [MDL=0.57]	0.57 U [MDL=0.57]	0.57 U [MDL=0.57]	0.57 U [MDL=0.57]
2-CHLOROETHYL VINYL ETHER	0.99 U [MDL=0.99]	0.99 U [MDL=0.99]	0.99 U [MDL=0.99]	0.99 U [MDL=0.99]	0.99 U [MDL=0.99]	0.99 U [MDL=0.99]	0.99 U [MDL=0.99]
2-CHLOROTOLUENE	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]
2-HEXANONE	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]
4-CHLOROTOLUENE	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]
4-ISOPROPYLTOLUENE	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]
4-METHYL-2-PENTANONE	0.32 U [MDL=0.32]	0.32 U [MDL=0.32]	0.32 U [MDL=0.32]	0.32 U [MDL=0.32]	0.32 U [MDL=0.32]	0.32 U [MDL=0.32]	0.32 U [MDL=0.32]
ACETONE	1.1 U [MDL=1.1]	1.1 U [MDL=1.1]	2 J [MDL=1.1]	2 J [MDL=1.1]	1.2 J [MDL=1.1]	1.7 J [MDL=1.1]	1.1 U [MDL=1.1]
BENZENE	0.14 J [MDL=0.13]	0.13 U [MDL=0.13]	0.13 J [MDL=0.13]	0.13 U [MDL=0.13]	0.15 J [MDL=0.13]	0.17 J [MDL=0.13]	0.13 J [MDL=0.13]
BROMOBENZENE	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]
BROMOCHLOROMETHANE	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]
BROMODICHLOROMETHANE	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]
BROMOFORM	0.64 U [MDL=0.64]	0.64 U [MDL=0.64]	0.64 U [MDL=0.64]	0.64 U [MDL=0.64]	0.64 U [MDL=0.64]	0.64 U [MDL=0.64]	0.64 U [MDL=0.64]
BROMOMETHANE	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]	0.41 U [MDL=0.41]
CARBON DISULFIDE	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.14 J [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]
CARBON TETRACHLORIDE	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]
CHLOROBENZENE	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]	0.15 U [MDL=0.15]
CHLORODIBROMOMETHANE	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]	0.18 U [MDL=0.18]
CHLOROETHANE	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]
CHLOROFORM	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]	0.16 U [MDL=0.16]
CHLOROMETHANE	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]	0.3 U [MDL=0.3]
CIS-1,2-DICHLOROETHENE	0.41 J [MDL=0.17]	0.46 J [MDL=0.17]	0.17 U [MDL=0.17]	0.32 J [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]
CIS-1,3-DICHLOROPROPENE	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]
DIBROMOMETHANE	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]
DICHLORODIFLUOROMETHANE	0.31 U [MDL=0.31]	0.31 U [MDL=0.31]	0.31 U [MDL=0.31]	0.31 U [MDL=0.31]	0.31 U [MDL=0.31]	0.31 U [MDL=0.31]	0.31 U [MDL=0.31]
DIISOPROPYL ETHER	1.5 U [MDL=1.5]	1.5 U [MDL=1.5]	1.5 U [MDL=1.5]	1.5 U [MDL=1.5]	1.5 U [MDL=1.5]	1.5 U [MDL=1.5]	1.5 U [MDL=1.5]

TABLE C-1

CHEMICAL RESULTS FOR SURFACE WATER SAMPLES - JULY 2013
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

LOCATION SAMPLE ID SAMPLE DATE	MSA-SW-44B MSA-SW44B-071813 7/18/2013	MSA-SW-44C MSA-SW44C-071813 7/18/2013	MSA-SW-44D MSA-SW44D-071813 7/18/2013	MSA-SW-45A MSA-SW45A-071813 7/18/2013	MSA-SW-45B MSA-SW45B-071813 7/18/2013	MSA-SW-45C MSA-SW45C-071813 7/18/2013	MSA-SW-45D MSA-SW45D-071813 7/18/2013
ETHYL TERT-BUTYL ETHER	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]
ETHYLBENZENE	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]
HEXACHLOROBUTADIENE	0.3 UJ [MDL=0.3]	0.3 UJ [MDL=0.3]	0.3 UJ [MDL=0.3]	0.3 UJ [MDL=0.3]	0.3 UJ [MDL=0.3]	0.3 UJ [MDL=0.3]	0.3 UJ [MDL=0.3]
ISOPROPYLBENZENE	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]
M+P-XYLENES	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]
METHYL TERT-BUTYL ETHER	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]	0.17 U [MDL=0.17]
METHYLENE CHLORIDE	0.33 U [MDL=0.33]	0.33 U [MDL=0.33]	0.33 U [MDL=0.33]	0.33 U [MDL=0.33]	0.33 U [MDL=0.33]	0.33 U [MDL=0.33]	0.33 U [MDL=0.33]
NAPHTHALENE	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]	0.24 U [MDL=0.24]
N-BUTYLBENZENE	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]
N-PROPYLBENZENE	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]
O-XYLENE	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]
SEC-BUTYLBENZENE	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]
STYRENE	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]	0.11 U [MDL=0.11]
TERT-AMYL METHYL ETHER	0.067 U [MDL=0.067]	0.067 U [MDL=0.067]	0.067 U [MDL=0.067]	0.067 U [MDL=0.067]	0.067 U [MDL=0.067]	0.067 U [MDL=0.067]	0.067 U [MDL=0.067]
TERT-BUTYLBENZENE	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]
TERTIARY-BUTYL ALCOHOL	3.9 UR [MDL=3.9]	3.9 UR [MDL=3.9]	3.9 UR [MDL=3.9]	3.9 UR [MDL=3.9]	3.9 UR [MDL=3.9]	3.9 UR [MDL=3.9]	3.9 UR [MDL=3.9]
TETRACHLOROETHENE	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]	0.29 U [MDL=0.29]
TOLUENE	0.27 J [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.13 U [MDL=0.13]	0.43 J [MDL=0.13]	0.13 J [MDL=0.13]
TOTAL XYLENES	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]	0.28 U [MDL=0.28]
TRANS-1,2-DICHLOROETHENE	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]
TRANS-1,3-DICHLOROPROPENE	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]	0.19 U [MDL=0.19]
TRICHLOROETHENE	0.88 J [MDL=0.17]	0.82 J [MDL=0.17]	0.75 J [MDL=0.17]	0.6 J [MDL=0.17]	0.33 J [MDL=0.17]	0.26 J [MDL=0.17]	0.37 J [MDL=0.17]
TRICHLOROFLUOROMETHANE	0.21 U [MDL=0.21]	0.21 U [MDL=0.21]	0.21 U [MDL=0.21]	0.21 U [MDL=0.21]	0.21 U [MDL=0.21]	0.21 U [MDL=0.21]	0.21 U [MDL=0.21]
VINYL ACETATE	0.19 UR [MDL=0.19]	0.19 UR [MDL=0.19]	0.19 UR [MDL=0.19]	0.19 UR [MDL=0.19]	0.19 UR [MDL=0.19]	0.19 UR [MDL=0.19]	0.19 UR [MDL=0.19]
VINYL CHLORIDE	0.23 J [MDL=0.22]	0.23 J [MDL=0.22]	0.22 J [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]	0.22 U [MDL=0.22]
DISSOLVED METALS (UG/L)							
ANTIMONY	0.27 B [MDL=0.11]	0.26 B [MDL=0.11]	0.29 B [MDL=0.11]	0.28 B [MDL=0.11]	0.24 B [MDL=0.11]	0.25 B [MDL=0.11]	0.3 B [MDL=0.11]
ARSENIC	2.1 J [MDL=0.063]	2.1 J [MDL=0.063]	2.2 J [MDL=0.063]	2.1 J [MDL=0.063]	2.1 J [MDL=0.063]	2.1 J [MDL=0.063]	2.1 J [MDL=0.063]
BARIUM	22 [MDL=0.32]	22 [MDL=0.32]	23 [MDL=0.32]	22 [MDL=0.32]	22 [MDL=0.32]	22 [MDL=0.32]	23 [MDL=0.32]
BERYLLIUM	0.087 B [MDL=0.031]	0.081 B [MDL=0.031]	0.078 B [MDL=0.031]	0.063 B [MDL=0.031]	0.082 B [MDL=0.031]	0.051 B [MDL=0.031]	0.062 B [MDL=0.031]
CADMIUM	0.044 B [MDL=0.026]	0.043 B [MDL=0.026]	0.032 B [MDL=0.026]	0.028 B [MDL=0.026]	0.026 U [MDL=0.026]	0.037 B [MDL=0.026]	0.04 B [MDL=0.026]
CHROMIUM	0.3 B [MDL=0.13]	0.37 B [MDL=0.13]	0.49 B [MDL=0.13]	0.28 B [MDL=0.13]	0.25 B [MDL=0.13]	0.26 B [MDL=0.13]	0.55 B [MDL=0.13]
COBALT	0.082 B [MDL=0.02]	0.075 B [MDL=0.02]	0.15 B [MDL=0.02]	0.083 B [MDL=0.02]	0.068 B [MDL=0.02]	0.063 B [MDL=0.02]	0.074 B [MDL=0.02]
COPPER	3.6 [MDL=0.24]	3.4 [MDL=0.24]	3.8 [MDL=0.24]	3.3 [MDL=0.24]	3.8 [MDL=0.24]	3.9 [MDL=0.24]	4.8 [MDL=0.24]
LEAD	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.26 B [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]	0.14 U [MDL=0.14]
MERCURY	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]	0.12 U [MDL=0.12]
MOLYBDENUM	1.7 J [MDL=0.81]	1.6 J [MDL=0.81]	1.8 J [MDL=0.81]	1.7 J [MDL=0.81]	1.7 J [MDL=0.81]	1.7 J [MDL=0.81]	1.6 J [MDL=0.81]
NICKEL	1.3 B [MDL=0.088]	1.2 B [MDL=0.088]	1.5 B [MDL=0.088]	1.4 B [MDL=0.088]	1.3 B [MDL=0.088]	1.5 B [MDL=0.088]	1.4 B [MDL=0.088]
SELENIUM	0.8 B [MDL=0.34]	0.68 B [MDL=0.34]	0.74 B [MDL=0.34]	0.91 B [MDL=0.34]	0.66 B [MDL=0.34]	0.74 B [MDL=0.34]	0.62 B [MDL=0.34]
SILVER	0.0083 U [MDL=0.0083]	0.0083 U [MDL=0.0083]	0.0083 U [MDL=0.0083]	0.0083 U [MDL=0.0083]	0.0083 U [MDL=0.0083]	0.0083 U [MDL=0.0083]	0.011 B [MDL=0.0083]
THALLIUM	0.4 U [MDL=0.4]	0.4 U [MDL=0.4]	0.4 U [MDL=0.4]	0.4 U [MDL=0.4]	0.4 U [MDL=0.4]	0.4 U [MDL=0.4]	0.4 U [MDL=0.4]
TUNGSTEN	0.066 B [MDL=0.017]	0.079 B [MDL=0.017]	0.065 B [MDL=0.017]	0.084 B [MDL=0.017]	0.09 B [MDL=0.017]	0.088 B [MDL=0.017]	0.098 B [MDL=0.017]
VANADIUM	3.8 J [MDL=0.15]	3.6 J [MDL=0.15]	4 J [MDL=0.15]	3.8 J [MDL=0.15]	3.8 J [MDL=0.15]	3.7 J [MDL=0.15]	3.5 J [MDL=0.15]
ZINC	4.7 B [MDL=2.1]	4.3 B [MDL=2.1]	6.4 B [MDL=2.1]	3.3 B [MDL=2.1]	5 B [MDL=2.1]	3.2 B [MDL=2.1]	6.4 B [MDL=2.1]
MISCELLANEOUS PARAMETERS							
CALCIUM HARDNESS AS CACO3 (MG/L)	100 [RL=12]	97 [RL=12]	100 [RL=12]	98 [RL=12]	99 [RL=12]	97 [RL=12]	98 [RL=12]
HARDNESS AS CACO3 (MG/L)	390 [RL=33]	390 [RL=33]	400 [RL=33]	390 [RL=33]	390 [RL=33]	390 [RL=33]	390 [RL=33]
MAGNESIUM HARDNESS AS CACO3 (MG/L)	290 [RL=21]	290 [RL=21]	300 [RL=21]	290 [RL=21]	290 [RL=21]	290 [RL=21]	290 [RL=21]

B - Result considered to be from laboratory blank contamination based on USEPA 5 times or 10 times rule.
$CaCO_3$ = calcium carbonate
EL - Edwards Lane
J - Positive result is considered estimated as a result of technical noncompliance.
MDL - method detection limit
MG/L - milligrams per liter (i.e., parts per million)
MSA - Martin State Airport
NA - not analyzed
RL - reporting limit
SW - surface water
U - Not detected at the detection limit shown left of the letter.
UG/L - micrograms per liter (i.e., parts per billion)
UJ -The analyte was not detected. However, the quantitation or detection limit may be inaccurate or imprecise.
UR - The result is considered qualitatively or quantitatively unreliable.

Minor

- The contract required detection limit (CRDL) percent recovery for zinc was > 110% quality control limit affecting all 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
Antimony	0.114 ug/L	0.57 ug/L
Beryllium	0.157 ug/L	0.785 ug/L
Cadmium	0.0320 ug/L	0.16 ug/L
Cobalt	0.054 ug/L	0.27 ug/L
Lead	0.142 ug/L	0.71 ug/L
Selenium	0.384 ug/L	1.92 ug/L
Silver	0.0600 ug/L	0.3 ug/L
Tungsten	0.153 ug/L	0.765 ug/L
Copper(1)	1.92 ug/L	9.6 ug/L
Arsenic(2)	0.223 ug/L	1.115 ug/L
Copper(2)	3.01 ug/L	15.05 ug/L
Vanadium(2)	0.875 ug/L	4.375 ug/L
Arsenic(3)	0.133 ug/L	0.665 ug/L
Chromium(3)	1.51 ug/L	7.55 ug/L
Copper(3)	0.254 ug/L	1.27 ug/L
Lead(3)	0.148 ug/L	0.74 ug/L
Nickel(3)	0.757 ug/L	3.785 ug/L
Vanadium(3)	0.399 ug/L	1.995 ug/L
Zinc(3)	3.17 ug/L	15.85 ug/L

(1) Maximum concentration present in a method blank affecting samples MSA-SW37A-071813, MSA-SW37B-071813, MSA-SW37C-071813, MSA-SW37D-071813, MSA-SW38A-071813, MSA-SW38B-071813, MSA-SW38C-071813, MSA-SW38D-071813, MSA-SW42A-071813, MSA-SW42B-071813, MSA-SW42C-071813, MSA-SW42D-071813 and MSA-SW43A-071813.

(2) Maximum concentration present in a preparation blank (240-94369) affecting samples MSA-SW37A-071813, MSA-SW37B-071813, MSA-SW37C-071813, MSA-SW37D-071813, MSA-SW38A-071813, MSA-SW38B-071813, MSA-SW38C-071813, MSA-SW38D-071813, MSA-SW39A-071813, MSA-SW39B-071813, MSA-SW39C-071813, MSA-SW39D-071813, MSA-SW40A-071813, MSA-SW40B-071813, MSA-SW40C-071813, MSA-SW40D-071813, MSA-SW41A-071813, MSA-SW41B-071813, MSA-SW41C-071813 and MSA-SW41D-071813.

(3) Maximum concentration present in a preparation blank (240-94371) affecting samples MSA-SW42A-071813, MSA-SW42B-071813, MSA-SW42C-071813, MSA-SW42D-071813, MSA-SW43A-071813, MSA-SW43B-071813, MSA-SW43C-071813, MSA-SW43D-071813, MSA-SW44A-071813, MSA-SW44B-071813, MSA-SW44C-071813, MSA-SW44D-071813, MSA-SW45A-071813, MSA-SW45B-071813, MSA-SW45C-071813 and MSA-SW45D-071813.

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 action level for antimony, beryllium, cadmium, chromium, cobalt, copper lead, nickel, selenium, silver, tungsten and vanadium were qualified "B", as a result of blank contamination.

- Positive results less than the reporting limit (RL) but greater than the method detection limit (MDL) were qualified as estimated, "J".

Notes

Nondetected results are reported to the method detection limit (MDL).

The CRDL percent recovery for copper was > 110% quality control limit affecting samples MSA-SW37A-071813, MSA-SW37B-071813, MSA-SW37C-071813, MSA-SW37D-071813, MSA-SW38A-071813, MSA-SW38B-071813, MSA-SW38C-071813, MSA-SW38D-071813, MSA-SW42A-071813, MSA-SW42B-071813, MSA-SW42C-071813, MSA-SW42D-071813 and MSA-SW43A-071813. No validation actions were required as all sample results were qualified as a result of blank contamination.

The laboratory noted on the chain of custody sample receipt form that volumes for samples EL-SW01A-071813, EL-SW01B-071813, EL-SW01C-071813 and EL-SW01D-071813 were not received for the metal or hardness analyses.

Executive Summary

Laboratory Performance: The CRDL percent recovery for zinc was > 110% quality control limit. Several contaminants were present in the laboratory method / preparation blanks.

Other Factors Affecting Data Quality: Positive results less than the RL but greater than the MDL were qualified as estimated.

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.

The text of this report has been formulated to address only those problem areas affecting data quality.

For

Tetra Tech
Terri L. Solomon
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 deviations is greater than sample activity
Z1 = Tentatively Identified Compound considered presumptively present
Z2 = Tentatively Identified Compound column bleed

PROJ_NO: 04793	NSAMPLE	MSA-SW37A-071813			MSA-SW37B-071813			MSA-SW37C-071813			MSA-SW37D-071813		
SDG: 240-27038-1	LAB_ID	240-27038-1			240-27038-2			240-27038-3			240-27038-4		
FRACTION: MF	SAMP_DATE	7/18/2013			7/18/2013			7/18/2013			7/18/2013		
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
ANTIMONY		0.42	B	A	0.46	B	A	0.33	B	A	0.27	B	A
ARSENIC		2.4	J	P	2.7	J	P	2.5	J	P	2.3	J	P
BARIUM		23			24			24			23		
BERYLLIUM		0.3	B	A	0.5	B	A	0.3	B	A	0.17	B	A
CADMIUM		0.14	B	A	0.46	J	P	0.094	B	A	0.037	B	A
CHROMIUM		0.38	J	P	0.69	J	P	0.47	J	P	0.27	J	P
COBALT		0.24	B	A	0.52	J	P	0.18	B	A	0.1	B	A
COPPER		6.4	B	A	7.1	B	A	7.2	B	A	7	B	A
LEAD		0.47	B	A	0.86	J	P	0.33	B	A	0.19	B	A
MERCURY		0.12	U		0.12	U		0.12	U		0.12	U	
MOLYBDENUM		1.7	J	P	1.8	J	P	1.8	J	P	1.7	J	P
NICKEL		1.5	J	P	2			1.8	J	P	1.4	J	P
SELENIUM		1.2	B	A	1.5	B	A	1.1	B	A	0.78	B	A
SILVER		0.015	B	A	0.045	B	A	0.016	B	A	0.013	B	A
THALLIUM		0.4	U		0.4	U		0.4	U		0.4	U	
TUNGSTEN		0.26	B	A	0.31	B	A	0.12	B	A	0.096	B	A
VANADIUM		3	B	A	3.2	B	A	3.2	B	A	3.1	B	A
ZINC		3	J	CP	4.4	J	CP	8.8	J	CP	4.2	J	CP

PROJ_NO: 04793	NSAMPLE	MSA-SW38A-071813			MSA-SW38B-071813			MSA-SW38C-071813			MSA-SW38D-071813		
SDG: 240-27038-1	LAB_ID	240-27038-5			240-27038-6			240-27038-7			240-27038-8		
FRACTION: MF	SAMP_DATE	7/18/2013			7/18/2013			7/18/2013			7/18/2013		
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
ANTIMONY		0.28	B	A	0.28	B	A	0.24	B	A	0.26	B	A
ARSENIC		2.2	J	P	2.2	J	P	2.2	J	P	2.3	J	P
BARIUM		23			23			23			24		
BERYLLIUM		0.15	B	A	0.15	B	A	0.11	B	A	0.08	B	A
CADMIUM		0.067	B	A	0.066	B	A	0.026	U		0.034	B	A
CHROMIUM		0.24	J	P	0.27	J	P	0.23	J	P	0.38	J	P
COBALT		0.14	B	A	0.11	B	A	0.094	B	A	0.14	B	A
COPPER		7.2	B	A	7.4	B	A	7.6	B	A	7.9	B	A
LEAD		0.15	B	A	0.15	B	A	0.14	U		0.21	B	A
MERCURY		0.12	U		0.12	U		0.12	U		0.12	U	
MOLYBDENUM		1.6	J	P	1.7	J	P	1.7	J	P	1.7	J	P
NICKEL		1.8	J	P	1.5	J	P	1.3	J	P	1.3	J	P
SELENIUM		0.91	B	A	0.83	B	A	0.65	B	A	1	B	A
SILVER		0.014	B	A	0.014	B	A	0.019	B	A	0.014	B	A
THALLIUM		0.4	U		0.4	U		0.4	U		0.4	U	
TUNGSTEN		0.077	B	A	0.083	B	A	0.094	B	A	0.084	B	A
VANADIUM		3	B	A	3.2	B	A	3.3	B	A	3.3	B	A
ZINC		4.2	J	CP	5.8	J	CP	3.2	J	CP	6.1	J	CP

PROJ_NO: 04793	NSAMPLE	MSA-SW39A-071813			MSA-SW39B-071813			MSA-SW39C-071813			MSA-SW39D-071813		
SDG: 240-27038-1	LAB_ID	240-27038-9			240-27038-10			240-27038-11			240-27038-12		
FRACTION: MF	SAMP_DATE	7/18/2013			7/18/2013			7/18/2013			7/18/2013		
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
ANTIMONY		0.22	B	A	0.22	B	A	0.22	B	A	0.23	B	A
ARSENIC		1.7	J	P	1.7	J	P	1.8	J	P	1.8	J	P
BARIUM		21			21			22			22		
BERYLLIUM		0.12	B	A	0.088	B	A	0.083	B	A	0.066	B	A
CADMIUM		0.026	U		0.026	U		0.028	B	A	0.028	B	A
CHROMIUM		0.35	J	P	0.23	J	P	0.23	J	P	0.28	J	P
COBALT		0.15	B	A	0.091	B	A	0.075	B	A	0.062	B	A
COPPER		3.3	B	A	3.1	B	A	3.3	B	A	3.2	B	A
LEAD		0.25	B	A	0.14	U		0.14	U		0.14	U	
MERCURY		0.12	U		0.12	U		0.12	U		0.12	U	
MOLYBDENUM		1.6	J	P	1.7	J	P	1.7	J	P	1.7	J	P
NICKEL		1.3	J	P	1.4	J	P	1.3	J	P	1.3	J	P
SELENIUM		0.79	B	A	0.9	B	A	0.94	B	A	0.72	B	A
SILVER		0.011	B	A	0.0083	U		0.011	B	A	0.011	B	A
THALLIUM		0.4	U		0.4	U		0.4	U		0.4	U	
TUNGSTEN		0.087	B	A	0.068	B	A	0.063	B	A	0.07	B	A
VANADIUM		2.9	B	A	3.2	B	A	3.3	B	A	3.3	B	A
ZINC		7.4	J	CP	3.3	J	CP	4.7	J	CP	2.7	J	CP

PROJ_NO: 04793	NSAMPLE	MSA-SW40A-071813			MSA-SW40B-071813			MSA-SW40C-071813			MSA-SW40D-071813		
SDG: 240-27038-1	LAB_ID	240-27038-13			240-27038-14			240-27038-15			240-27038-16		
FRACTION: MF	SAMP_DATE	7/18/2013			7/18/2013			7/18/2013			7/18/2013		
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
ANTIMONY		0.24	B	A	0.28	B	A	0.26	B	A	0.25	B	A
ARSENIC		2.4	J	P	2.5	J	P	2.2	J	P	2.2	J	P
BARIUM		23			24			22			23		
BERYLLIUM		0.07	B	A	0.067	B	A	0.05	B	A	0.061	B	A
CADMIUM		0.06	B	A	0.047	B	A	0.026	U		0.026	U	
CHROMIUM		0.44	J	P	0.36	J	P	0.34	J	P	0.34	J	P
COBALT		0.15	B	A	0.093	B	A	0.076	B	A	0.09	B	A
COPPER		3.8	B	A	3.5	B	A	3.7	B	A	3.8	B	A
LEAD		0.2	B	A	0.14	U		0.14	U		0.14	U	
MERCURY		0.12	U		0.12	U		0.12	U		0.12	U	
MOLYBDENUM		1.7	J	P	1.8	J	P	1.6	J	P	1.7	J	P
NICKEL		1.3	J	P	1.3	J	P	1.3	J	P	1.4	J	P
SELENIUM		0.82	B	A	0.74	B	A	0.85	B	A	0.65	B	A
SILVER		0.013	B	A	0.012	B	A	0.0083	U		0.009	B	A
THALLIUM		0.4	U		0.4	U		0.4	U		0.4	U	
TUNGSTEN		0.084	B	A	0.082	B	A	0.077	B	A	0.086	B	A
VANADIUM		3.5	B	A	3.8	B	A	3.4	B	A	3.5	B	A
ZINC		3.7	J	CP	6.1	J	CP	4.7	J	CP	4.3	J	CP

PROJ_NO: 04793	NSAMPLE	MSA-SW41A-071813			MSA-SW41B-071813			MSA-SW41C-071813			MSA-SW41D-071813		
SDG: 240-27038-1	LAB_ID	240-27038-17			240-27038-18			240-27038-19			240-27038-20		
FRACTION: MF	SAMP_DATE	7/18/2013			7/18/2013			7/18/2013			7/18/2013		
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
ANTIMONY		0.24	B	A	0.22	B	A	0.28	B	A	0.24	B	A
ARSENIC		2.4	J	P	2.2	J	P	2.2	J	P	2.3	J	P
BARIUM		24			22			22			23		
BERYLLIUM		0.049	B	A	0.035	B	A	0.056	B	A	0.047	B	A
CADMIUM		0.045	B	A	0.037	B	A	0.026	U		0.026	U	
CHROMIUM		0.48	J	P	0.29	J	P	0.25	J	P	0.27	J	P
COBALT		0.21	B	A	0.087	B	A	0.071	B	A	0.091	B	A
COPPER		4.4	B	A	3.6	B	A	3.8	B	A	3.9	B	A
LEAD		0.28	B	A	0.14	U		0.14	U		0.14	U	
MERCURY		0.12	U		0.12	U		0.12	U		0.12	U	
MOLYBDENUM		1.7	J	P	1.7	J	P	1.7	J	P	1.7	J	P
NICKEL		1.4	J	P	1.3	J	P	1.3	J	P	1.2	J	P
SELENIUM		0.76	B	A	0.72	B	A	0.67	B	A	0.89	B	A
SILVER		0.0083	U		0.022	B	A	0.01	B	A	0.0083	U	
THALLIUM		0.4	U		0.4	U		0.4	U		0.4	U	
TUNGSTEN		0.086	B	A	0.073	B	A	0.13	B	A	0.072	B	A
VANADIUM		3.8	B	A	3.7	B	A	3.7	B	A	3.8	B	A
ZINC		5.4	J	CP	5.2	J	CP	3.9	J	CP	3.6	J	CP

PROJ_NO: 04793	NSAMPLE	MSA-SW42A-071813			MSA-SW42B-071813			MSA-SW42C-071813			MSA-SW42D-071813		
SDG: 240-27038-1	LAB_ID	240-27038-21			240-27038-22			240-27038-23			240-27038-24		
FRACTION: MF	SAMP_DATE	7/18/2013			7/18/2013			7/18/2013			7/18/2013		
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
ANTIMONY		0.51	B	A	0.52	B	A	0.38	B	A	0.35	B	A
ARSENIC		2.4	J	P	2.5	J	P	2.4	J	P	2.2	J	P
BARIUM		23			23			24			22		
BERYLLIUM		0.41	B	A	0.49	B	A	0.28	B	A	0.23	B	A
CADMIUM		0.12	B	A	0.34	J	P	0.072	B	A	0.046	B	A
CHROMIUM		1.7	B	A	0.61	B	A	0.37	B	A	0.31	B	A
COBALT		0.24	B	A	0.39	J	P	0.13	B	A	0.11	B	A
COPPER		5.2	B	A	7	B	A	7.7	B	A	7.7	B	A
LEAD		0.72	B	A	0.92	J	P	0.36	B	A	0.26	B	A
MERCURY		0.12	U		0.12	U		0.12	U		0.12	J	P
MOLYBDENUM		1.7	J	P	1.7	J	P	1.8	J	P	1.7	J	P
NICKEL		2.2	B	A	1.7	B	A	1.4	B	A	1.3	B	A
SELENIUM		1.1	B	A	1.3	B	A	0.95	B	A	0.8	B	A
SILVER		0.043	B	A	0.035	B	A	0.009	B	A	0.0083	U	
THALLIUM		0.4	U		0.4	U		0.4	U		0.4	U	
TUNGSTEN		0.27	B	A	0.3	B	A	0.13	B	A	0.12	B	A
VANADIUM		2.6	J	P	3.1	J	P	3.3	J	P	3.3	J	P
ZINC		7	B	A	4.2	B	A	6.1	B	A	8.1	B	A

PROJ_NO: 04793	NSAMPLE	MSA-SW43A-071813			MSA-SW43B-071813			MSA-SW43C-071813			MSA-SW43D-071813		
SDG: 240-27038-1	LAB_ID	240-27038-25			240-27038-26			240-27038-27			240-27038-28		
FRACTION: MF	SAMP_DATE	7/18/2013			7/18/2013			7/18/2013			7/18/2013		
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
ANTIMONY		0.32	B	A	0.3	B	A	0.3	B	A	0.29	B	A
ARSENIC		2.2	J	P	2.1	J	P	2.3	J	P	2.3	J	P
BARIUM		23			22			22			23		
BERYLLIUM		0.21	B	A	0.14	B	A	0.13	B	A	0.12	B	A
CADMIUM		0.065	B	A	0.04	B	A	0.037	B	A	0.026	B	A
CHROMIUM		0.32	B	A	0.28	B	A	0.27	B	A	0.29	B	A
COBALT		0.14	B	A	0.11	B	A	0.091	B	A	0.096	B	A
COPPER		8.1	B	A	3.9			0.41	J	P	4		
LEAD		0.18	B	A	0.18	B	A	0.14	U		0.14	B	A
MERCURY		0.12	U		0.12	U		0.12	U		0.12	U	
MOLYBDENUM		1.7	J	P	1.7	J	P	1.7	J	P	1.7	J	P
NICKEL		1.5	B	A	1.3	B	A	1.3	B	A	1.4	B	A
SELENIUM		1	B	A	0.49	B	A	0.65	B	A	0.65	B	A
SILVER		0.0083	U		0.0083	U		0.0083	U		0.0083	U	
THALLIUM		0.4	U		0.4	U		0.4	U		0.4	U	
TUNGSTEN		0.089	B	A	0.091	B	A	0.089	B	A	0.078	B	A
VANADIUM		3.5	J	P	3	J	P	3.5	J	P	3.7	J	P
ZINC		5.8	B	A	5.4	B	A	4.6	B	A	3.5	B	A

PROJ_NO: 04793	NSAMPLE	MSA-SW44A-071813			MSA-SW44B-071813			MSA-SW44C-071813			MSA-SW44D-071813		
SDG: 240-27038-1	LAB_ID	240-27038-29			240-27038-30			240-27038-31			240-27038-32		
FRACTION: MF	SAMP_DATE	7/18/2013			7/18/2013			7/18/2013			7/18/2013		
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
ANTIMONY		0.28	B	A	0.27	B	A	0.26	B	A	0.29	B	A
ARSENIC		2.1	J	P	2.1	J	P	2.1	J	P	2.2	J	P
BARIUM		23			22			22			23		
BERYLLIUM		0.074	B	A	0.087	B	A	0.081	B	A	0.078	B	A
CADMIUM		0.033	B	A	0.044	B	A	0.043	B	A	0.032	B	A
CHROMIUM		0.24	B	A	0.3	B	A	0.37	B	A	0.49	B	A
COBALT		0.092	B	A	0.082	B	A	0.075	B	A	0.15	B	A
COPPER		3.6			3.6			3.4			3.8		
LEAD		0.14	U		0.14	U		0.14	U		0.26	B	A
MERCURY		0.12	U		0.12	U		0.12	U		0.12	U	
MOLYBDENUM		1.7	J	P	1.7	J	P	1.6	J	P	1.8	J	P
NICKEL		1.3	B	A	1.3	B	A	1.2	B	A	1.5	B	A
SELENIUM		0.75	B	A	0.8	B	A	0.68	B	A	0.74	B	A
SILVER		0.0083	U		0.0083	U		0.0083	U		0.0083	U	
THALLIUM		0.4	U		0.4	U		0.4	U		0.4	U	
TUNGSTEN		0.081	B	A	0.066	B	A	0.079	B	A	0.065	B	A
VANADIUM		3.7	J	P	3.8	J	P	3.6	J	P	4	J	P
ZINC		3.1	B	A	4.7	B	A	4.3	B	A	6.4	B	A

PROJ_NO: 04793	NSAMPLE	MSA-SW45A-071813			MSA-SW45B-071813			MSA-SW45C-071813			MSA-SW45D-071813		
SDG: 240-27038-1	LAB_ID	240-27038-33			240-27038-34			240-27038-35			240-27038-36		
FRACTION: MF	SAMP_DATE	7/18/2013			7/18/2013			7/18/2013			7/18/2013		
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
ANTIMONY		0.28	B	A	0.24	B	A	0.25	B	A	0.3	B	A
ARSENIC		2.1	J	P	2.1	J	P	2.1	J	P	2.1	J	P
BARIUM		22			22			22			23		
BERYLLIUM		0.063	B	A	0.082	B	A	0.051	B	A	0.062	B	A
CADMIUM		0.028	B	A	0.026	U		0.037	B	A	0.04	B	A
CHROMIUM		0.28	B	A	0.25	B	A	0.26	B	A	0.55	B	A
COBALT		0.083	B	A	0.068	B	A	0.063	B	A	0.074	B	A
COPPER		3.3			3.8			3.9			4.8		
LEAD		0.14	U		0.14	U		0.14	U		0.14	U	
MERCURY		0.12	U		0.12	U		0.12	U		0.12	U	
MOLYBDENUM		1.7	J	P	1.7	J	P	1.7	J	P	1.6	J	P
NICKEL		1.4	B	A	1.3	B	A	1.5	B	A	1.4	B	A
SELENIUM		0.91	B	A	0.66	B	A	0.74	B	A	0.62	B	A
SILVER		0.0083	U		0.0083	U		0.0083	U		0.011	B	A
THALLIUM		0.4	U		0.4	U		0.4	U		0.4	U	
TUNGSTEN		0.084	B	A	0.09	B	A	0.088	B	A	0.098	B	A
VANADIUM		3.8	J	P	3.8	J	P	3.7	J	P	3.5	J	P
ZINC		3.3	B	A	5	B	A	3.2	B	A	6.4	B	A

PROJ_NO: 04793	NSAMPLE	MSA-SW37A-071813			MSA-SW37B-071813			MSA-SW37C-071813			MSA-SW37D-071813		
SDG: 240-27038-1	LAB_ID	240-27038-1			240-27038-2			240-27038-3			240-27038-4		
FRACTION: MISC	SAMP_DATE	7/18/2013			7/18/2013			7/18/2013			7/18/2013		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/L			MG/L			MG/L			MG/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
CALCIUM HARDNESS AS CACO3		98			98			100			99		
HARDNESS AS CACO3		380			380			400			390		
MAGNESIUM HARDNESS AS CACO3		290			280			290			290		

PROJ_NO: 04793	NSAMPLE	MSA-SW38A-071813			MSA-SW38B-071813			MSA-SW38C-071813			MSA-SW38D-071813		
SDG: 240-27038-1	LAB_ID	240-27038-5			240-27038-6			240-27038-7			240-27038-8		
FRACTION: MISC	SAMP_DATE	7/18/2013			7/18/2013			7/18/2013			7/18/2013		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/L			MG/L			MG/L			MG/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
CALCIUM HARDNESS AS CACO3		97			100			99			100		
HARDNESS AS CACO3		380			390			390			390		
MAGNESIUM HARDNESS AS CACO3		280			290			290			290		

PROJ_NO: 04793	NSAMPLE	MSA-SW39A-071813			MSA-SW39B-071813			MSA-SW39C-071813			MSA-SW39D-071813		
SDG: 240-27038-1	LAB_ID	240-27038-9			240-27038-10			240-27038-11			240-27038-12		
FRACTION: MISC	SAMP_DATE	7/18/2013			7/18/2013			7/18/2013			7/18/2013		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/L			MG/L			MG/L			MG/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
CALCIUM HARDNESS AS CACO3		95			99			99			100		
HARDNESS AS CACO3		370			390			390			390		
MAGNESIUM HARDNESS AS CACO3		280			290			290			290		

PROJ_NO: 04793	NSAMPLE	MSA-SW40A-071813			MSA-SW40B-071813			MSA-SW40C-071813			MSA-SW40D-071813		
SDG: 240-27038-1	LAB_ID	240-27038-13			240-27038-14			240-27038-15			240-27038-16		
FRACTION: MISC	SAMP_DATE	7/18/2013			7/18/2013			7/18/2013			7/18/2013		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/L			MG/L			MG/L			MG/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
CALCIUM HARDNESS AS CACO3		98			110			98			99		
HARDNESS AS CACO3		380			410			380			390		
MAGNESIUM HARDNESS AS CACO3		290			310			280			290		

PROJ_NO: 04793	NSAMPLE	MSA-SW41A-071813			MSA-SW41B-071813			MSA-SW41C-071813			MSA-SW41D-071813		
SDG: 240-27038-1	LAB_ID	240-27038-17			240-27038-18			240-27038-19			240-27038-20		
FRACTION: MISC	SAMP_DATE	7/18/2013			7/18/2013			7/18/2013			7/18/2013		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/L			MG/L			MG/L			MG/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
CALCIUM HARDNESS AS CACO3		100			99			100			98		
HARDNESS AS CACO3		390			390			390			380		
MAGNESIUM HARDNESS AS CACO3		290			290			290			290		

PROJ_NO: 04793	NSAMPLE	MSA-SW42A-071813			MSA-SW42B-071813			MSA-SW42C-071813			MSA-SW42D-071813		
SDG: 240-27038-1	LAB_ID	240-27038-21			240-27038-22			240-27038-23			240-27038-24		
FRACTION: MISC	SAMP_DATE	7/18/2013			7/18/2013			7/18/2013			7/18/2013		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/L			MG/L			MG/L			MG/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
CALCIUM HARDNESS AS CACO3		95			96			100			98		
HARDNESS AS CACO3		380			380			400			380		
MAGNESIUM HARDNESS AS CACO3		280			280			300			290		

PROJ_NO: 04793	NSAMPLE	MSA-SW43A-071813			MSA-SW43B-071813			MSA-SW43C-071813			MSA-SW43D-071813		
SDG: 240-27038-1	LAB_ID	240-27038-25			240-27038-26			240-27038-27			240-27038-28		
FRACTION: MISC	SAMP_DATE	7/18/2013			7/18/2013			7/18/2013			7/18/2013		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/L			MG/L			MG/L			MG/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
CALCIUM HARDNESS AS CACO3		97			98			100			100		
HARDNESS AS CACO3		390			380			400			400		
MAGNESIUM HARDNESS AS CACO3		290			290			300			300		

PROJ_NO: 04793	NSAMPLE	MSA-SW44A-071813			MSA-SW44B-071813			MSA-SW44C-071813			MSA-SW44D-071813		
SDG: 240-27038-1	LAB_ID	240-27038-29			240-27038-30			240-27038-31			240-27038-32		
FRACTION: MISC	SAMP_DATE	7/18/2013			7/18/2013			7/18/2013			7/18/2013		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/L			MG/L			MG/L			MG/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
CALCIUM HARDNESS AS CACO3		100			100			97			100		
HARDNESS AS CACO3		400			390			390			400		
MAGNESIUM HARDNESS AS CACO3		300			290			290			300		

PROJ_NO: 04793	NSAMPLE	MSA-SW45A-071813			MSA-SW45B-071813			MSA-SW45C-071813			MSA-SW45D-071813		
SDG: 240-27038-1	LAB_ID	240-27038-33			240-27038-34			240-27038-35			240-27038-36		
FRACTION: MISC	SAMP_DATE	7/18/2013			7/18/2013			7/18/2013			7/18/2013		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/L			MG/L			MG/L			MG/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
CALCIUM HARDNESS AS CACO3		98			99			97			98		
HARDNESS AS CACO3		390			390			390			390		
MAGNESIUM HARDNESS AS CACO3		290			290			290			290		

Appendix B

Results as Reported by the Laboratory

INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW37A-071813

Lab Sample ID: 240-27038-1

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 14:00

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.42	2.0	0.11	ug/L	J		1	6020
7440-38-2	Arsenic	2.4	5.0	0.063	ug/L	J	B	1	6020
7440-39-3	Barium	23	5.0	0.32	ug/L			1	6020
7440-41-7	Beryllium	0.30	1.0	0.031	ug/L	J	B	1	6020
7440-43-9	Cadmium	0.14	1.0	0.026	ug/L	J		1	6020
7440-47-3	Chromium	0.38	2.0	0.13	ug/L	J		1	6020
7440-48-4	Cobalt	0.24	1.0	0.020	ug/L	J		1	6020
7440-50-8	Copper	6.4	2.0	0.24	ug/L		B	1	6020
7439-92-1	Lead	0.47	1.0	0.14	ug/L	J		1	6020
7439-98-7	Molybdenum	1.7	10	0.81	ug/L	J		1	6020
7440-02-0	Nickel	1.5	2.0	0.088	ug/L	J		1	6020
7782-49-2	Selenium	1.2	5.0	0.34	ug/L	J		1	6020
7440-22-4	Silver	0.015	1.0	0.0083	ug/L	J		1	6020
7440-28-0	Thallium	2.0	2.0	0.40	ug/L	U		1	6020
7440-62-2	Vanadium	3.0	5.0	0.15	ug/L	J	B	1	6020
7440-66-6	Zinc	3.0	20	2.1	ug/L	J		1	6020
7440-33-7	Tungsten	0.26	10	0.017	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: MSA-SW37B-071813

Lab Sample ID: 240-27038-2

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 14:03

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.46	2.0	0.11	ug/L	J		1	6020
7440-38-2	Arsenic	2.7	5.0	0.063	ug/L	J	B	1	6020
7440-39-3	Barium	24	5.0	0.32	ug/L			1	6020
7440-41-7	Beryllium	0.50	1.0	0.031	ug/L	J	B	1	6020
7440-43-9	Cadmium	0.46	1.0	0.026	ug/L	J		1	6020
7440-47-3	Chromium	0.69	2.0	0.13	ug/L	J		1	6020
7440-48-4	Cobalt	0.52	1.0	0.020	ug/L	J		1	6020
7440-50-8	Copper	7.1	2.0	0.24	ug/L		B	1	6020
7439-92-1	Lead	0.86	1.0	0.14	ug/L	J		1	6020
7439-98-7	Molybdenum	1.8	10	0.81	ug/L	J		1	6020
7440-02-0	Nickel	2.0	2.0	0.088	ug/L			1	6020
7782-49-2	Selenium	1.5	5.0	0.34	ug/L	J		1	6020
7440-22-4	Silver	0.045	1.0	0.0083	ug/L	J		1	6020
7440-28-0	Thallium	2.0	2.0	0.40	ug/L	U		1	6020
7440-62-2	Vanadium	3.2	5.0	0.15	ug/L	J	B	1	6020
7440-66-6	Zinc	4.4	20	2.1	ug/L	J		1	6020
7440-33-7	Tungsten	0.31	10	0.017	ug/L	J		1	6020
7439-97-6	Mercury	0.20	0.20	0.12	ug/L	U		1	7470A

INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW37C-071813

Lab Sample ID: 240-27038-3

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 14:08

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.33	2.0	0.11	ug/L	J		1	6020
7440-38-2	Arsenic	2.5	5.0	0.063	ug/L	J	B	1	6020
7440-39-3	Barium	24	5.0	0.32	ug/L			1	6020
7440-41-7	Beryllium	0.30	1.0	0.031	ug/L	J	B	1	6020
7440-43-9	Cadmium	0.094	1.0	0.026	ug/L	J		1	6020
7440-47-3	Chromium	0.47	2.0	0.13	ug/L	J		1	6020
7440-48-4	Cobalt	0.18	1.0	0.020	ug/L	J		1	6020
7440-50-8	Copper	7.2	2.0	0.24	ug/L		B	1	6020
7439-92-1	Lead	0.33	1.0	0.14	ug/L	J		1	6020
7439-98-7	Molybdenum	1.8	10	0.81	ug/L	J		1	6020
7440-02-0	Nickel	1.8	2.0	0.088	ug/L	J		1	6020
7782-49-2	Selenium	1.1	5.0	0.34	ug/L	J		1	6020
7440-22-4	Silver	0.016	1.0	0.0083	ug/L	J		1	6020
7440-28-0	Thallium	2.0	2.0	0.40	ug/L	U		1	6020
7440-62-2	Vanadium	3.2	5.0	0.15	ug/L	J	B	1	6020
7440-66-6	Zinc	8.8	20	2.1	ug/L	J		1	6020
7440-33-7	Tungsten	0.12	10	0.017	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: MSA-SW37D-071813

Lab Sample ID: 240-27038-4

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 14:15

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.27	2.0	0.11	ug/L	J		1	6020
7440-38-2	Arsenic	2.3	5.0	0.063	ug/L	J	B	1	6020
7440-39-3	Barium	23	5.0	0.32	ug/L			1	6020
7440-41-7	Beryllium	0.17	1.0	0.031	ug/L	J	B	1	6020
7440-43-9	Cadmium	0.037	1.0	0.026	ug/L	J		1	6020
7440-47-3	Chromium	0.27	2.0	0.13	ug/L	J		1	6020
7440-48-4	Cobalt	0.10	1.0	0.020	ug/L	J		1	6020
7440-50-8	Copper	7.0	2.0	0.24	ug/L		B	1	6020
7439-92-1	Lead	0.19	1.0	0.14	ug/L	J		1	6020
7439-98-7	Molybdenum	1.7	10	0.81	ug/L	J		1	6020
7440-02-0	Nickel	1.4	2.0	0.088	ug/L	J		1	6020
7782-49-2	Selenium	0.78	5.0	0.34	ug/L	J		1	6020
7440-22-4	Silver	0.013	1.0	0.0083	ug/L	J		1	6020
7440-28-0	Thallium	2.0	2.0	0.40	ug/L	U		1	6020
7440-62-2	Vanadium	3.1	5.0	0.15	ug/L	J	B	1	6020
7440-66-6	Zinc	4.2	20	2.1	ug/L	J		1	6020
7440-33-7	Tungsten	0.096	10	0.017	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: MSA-SW38A-071813

Lab Sample ID: 240-27038-5

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 12:58

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.28	2.0	0.11	ug/L	J		1	6020
7440-38-2	Arsenic	2.2	5.0	0.063	ug/L	J	B	1	6020
7440-39-3	Barium	23	5.0	0.32	ug/L			1	6020
7440-41-7	Beryllium	0.15	1.0	0.031	ug/L	J	B	1	6020
7440-43-9	Cadmium	0.067	1.0	0.026	ug/L	J		1	6020
7440-47-3	Chromium	0.24	2.0	0.13	ug/L	J		1	6020
7440-48-4	Cobalt	0.14	1.0	0.020	ug/L	J		1	6020
7440-50-8	Copper	7.2	2.0	0.24	ug/L		B	1	6020
7439-92-1	Lead	0.15	1.0	0.14	ug/L	J		1	6020
7439-98-7	Molybdenum	1.6	10	0.81	ug/L	J		1	6020
7440-02-0	Nickel	1.8	2.0	0.088	ug/L	J		1	6020
7782-49-2	Selenium	0.91	5.0	0.34	ug/L	J		1	6020
7440-22-4	Silver	0.014	1.0	0.0083	ug/L	J		1	6020
7440-28-0	Thallium	2.0	2.0	0.40	ug/L	U		1	6020
7440-62-2	Vanadium	3.0	5.0	0.15	ug/L	J	B	1	6020
7440-66-6	Zinc	4.2	20	2.1	ug/L	J		1	6020
7440-33-7	Tungsten	0.077	10	0.017	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: MSA-SW38B-071813

Lab Sample ID: 240-27038-6

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 13:02

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.28	2.0	0.11	ug/L	J		1	6020
7440-38-2	Arsenic	2.2	5.0	0.063	ug/L	J	B	1	6020
7440-39-3	Barium	23	5.0	0.32	ug/L			1	6020
7440-41-7	Beryllium	0.15	1.0	0.031	ug/L	J	B	1	6020
7440-43-9	Cadmium	0.066	1.0	0.026	ug/L	J		1	6020
7440-47-3	Chromium	0.27	2.0	0.13	ug/L	J		1	6020
7440-48-4	Cobalt	0.11	1.0	0.020	ug/L	J		1	6020
7440-50-8	Copper	7.4	2.0	0.24	ug/L		B	1	6020
7439-92-1	Lead	0.15	1.0	0.14	ug/L	J		1	6020
7439-98-7	Molybdenum	1.7	10	0.81	ug/L	J		1	6020
7440-02-0	Nickel	1.5	2.0	0.088	ug/L	J		1	6020
7782-49-2	Selenium	0.83	5.0	0.34	ug/L	J		1	6020
7440-22-4	Silver	0.014	1.0	0.0083	ug/L	J		1	6020
7440-28-0	Thallium	2.0	2.0	0.40	ug/L	U		1	6020
7440-62-2	Vanadium	3.2	5.0	0.15	ug/L	J	B	1	6020
7440-66-6	Zinc	5.8	20	2.1	ug/L	J		1	6020
7440-33-7	Tungsten	0.083	10	0.017	ug/L	J		1	6020
7439-97-6	Mercury	0.20	0.20	0.12	ug/L	U		1	7470A

INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW38C-071813

Lab Sample ID: 240-27038-7

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 13:06

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.24	2.0	0.11	ug/L	J		1	6020
7440-38-2	Arsenic	2.2	5.0	0.063	ug/L	J	B	1	6020
7440-39-3	Barium	23	5.0	0.32	ug/L			1	6020
7440-41-7	Beryllium	0.11	1.0	0.031	ug/L	J	B	1	6020
7440-43-9	Cadmium	1.0	1.0	0.026	ug/L	U		1	6020
7440-47-3	Chromium	0.23	2.0	0.13	ug/L	J		1	6020
7440-48-4	Cobalt	0.094	1.0	0.020	ug/L	J		1	6020
7440-50-8	Copper	7.6	2.0	0.24	ug/L		B	1	6020
7439-92-1	Lead	1.0	1.0	0.14	ug/L	U		1	6020
7439-98-7	Molybdenum	1.7	10	0.81	ug/L	J		1	6020
7440-02-0	Nickel	1.3	2.0	0.088	ug/L	J		1	6020
7782-49-2	Selenium	0.65	5.0	0.34	ug/L	J		1	6020
7440-22-4	Silver	0.019	1.0	0.0083	ug/L	J		1	6020
7440-28-0	Thallium	2.0	2.0	0.40	ug/L	U		1	6020
7440-62-2	Vanadium	3.3	5.0	0.15	ug/L	J	B	1	6020
7440-66-6	Zinc	3.2	20	2.1	ug/L	J		1	6020
7440-33-7	Tungsten	0.094	10	0.017	ug/L	J		1	6020
7439-97-6	Mercury	0.20	0.20	0.12	ug/L	U		1	7470A

INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW38D-071813

Lab Sample ID: 240-27038-8

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 13:10

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.26	2.0	0.11	ug/L	J		1	6020
7440-38-2	Arsenic	2.3	5.0	0.063	ug/L	J	B	1	6020
7440-39-3	Barium	24	5.0	0.32	ug/L			1	6020
7440-41-7	Beryllium	0.080	1.0	0.031	ug/L	J	B	1	6020
7440-43-9	Cadmium	0.034	1.0	0.026	ug/L	J		1	6020
7440-47-3	Chromium	0.38	2.0	0.13	ug/L	J		1	6020
7440-48-4	Cobalt	0.14	1.0	0.020	ug/L	J		1	6020
7440-50-8	Copper	7.9	2.0	0.24	ug/L		B	1	6020
7439-92-1	Lead	0.21	1.0	0.14	ug/L	J		1	6020
7439-98-7	Molybdenum	1.7	10	0.81	ug/L	J		1	6020
7440-02-0	Nickel	1.3	2.0	0.088	ug/L	J		1	6020
7782-49-2	Selenium	1.0	5.0	0.34	ug/L	J		1	6020
7440-22-4	Silver	0.014	1.0	0.0083	ug/L	J		1	6020
7440-28-0	Thallium	2.0	2.0	0.40	ug/L	U		1	6020
7440-62-2	Vanadium	3.3	5.0	0.15	ug/L	J	B	1	6020
7440-66-6	Zinc	6.1	20	2.1	ug/L	J		1	6020
7440-33-7	Tungsten	0.084	10	0.017	ug/L	J		1	6020
7439-97-6	Mercury	0.20	0.20	0.12	ug/L	U		1	7470A

INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW39A-071813 | Lab Sample ID: 240-27038-9

Lab Name: TestAmerica Canton | Job No.: 240-27038-1

SDG ID.:

Matrix: Water | Date Sampled: 07/18/2013 10:15

Reporting Basis: WET | Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.22	2.0	0.11	ug/L	J		1	6020
7440-38-2	Arsenic	1.7	5.0	0.063	ug/L	J	B	1	6020
7440-39-3	Barium	21	5.0	0.32	ug/L			1	6020
7440-41-7	Beryllium	0.12	1.0	0.031	ug/L	J	B	1	6020
7440-43-9	Cadmium	1.0	1.0	0.026	ug/L	U		1	6020
7440-47-3	Chromium	0.35	2.0	0.13	ug/L	J		1	6020
7440-48-4	Cobalt	0.15	1.0	0.020	ug/L	J		1	6020
7440-50-8	Copper	3.3	2.0	0.24	ug/L		B	1	6020
7439-92-1	Lead	0.25	1.0	0.14	ug/L	J		1	6020
7439-98-7	Molybdenum	1.6	10	0.81	ug/L	J		1	6020
7440-02-0	Nickel	1.3	2.0	0.088	ug/L	J		1	6020
7782-49-2	Selenium	0.79	5.0	0.34	ug/L	J		1	6020
7440-22-4	Silver	0.011	1.0	0.0083	ug/L	J		1	6020
7440-28-0	Thallium	2.0	2.0	0.40	ug/L	U		1	6020
7440-62-2	Vanadium	2.9	5.0	0.15	ug/L	J	B	1	6020
7440-66-6	Zinc	7.4	20	2.1	ug/L	J		1	6020
7440-33-7	Tungsten	0.087	10	0.017	ug/L	J		1	6020
7439-97-6	Mercury	0.20	0.20	0.12	ug/L	U		1	7470A

INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW39B-071813

Lab Sample ID: 240-27038-10

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 10:21

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.22	2.0	0.11	ug/L	J		1	6020
7440-38-2	Arsenic	1.7	5.0	0.063	ug/L	J	B	1	6020
7440-39-3	Barium	21	5.0	0.32	ug/L			1	6020
7440-41-7	Beryllium	0.088	1.0	0.031	ug/L	J	B	1	6020
7440-43-9	Cadmium	1.0	1.0	0.026	ug/L	U		1	6020
7440-47-3	Chromium	0.23	2.0	0.13	ug/L	J		1	6020
7440-48-4	Cobalt	0.091	1.0	0.020	ug/L	J		1	6020
7440-50-8	Copper	3.1	2.0	0.24	ug/L		B	1	6020
7439-92-1	Lead	1.0	1.0	0.14	ug/L	U		1	6020
7439-98-7	Molybdenum	1.7	10	0.81	ug/L	J		1	6020
7440-02-0	Nickel	1.4	2.0	0.088	ug/L	J		1	6020
7782-49-2	Selenium	0.90	5.0	0.34	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.0083	ug/L	U		1	6020
7440-28-0	Thallium	2.0	2.0	0.40	ug/L	U		1	6020
7440-62-2	Vanadium	3.2	5.0	0.15	ug/L	J	B	1	6020
7440-66-6	Zinc	3.3	20	2.1	ug/L	J		1	6020
7440-33-7	Tungsten	0.068	10	0.017	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: MSA-SW39C-071813 | Lab Sample ID: 240-27038-11

Lab Name: TestAmerica Canton | Job No.: 240-27038-1

SDG ID.:

Matrix: Water | Date Sampled: 07/18/2013 10:29

Reporting Basis: WET | Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.22	2.0	0.11	ug/L	J		1	6020
7440-38-2	Arsenic	1.8	5.0	0.063	ug/L	J	B	1	6020
7440-39-3	Barium	22	5.0	0.32	ug/L			1	6020
7440-41-7	Beryllium	0.083	1.0	0.031	ug/L	J	B	1	6020
7440-43-9	Cadmium	0.028	1.0	0.026	ug/L	J		1	6020
7440-47-3	Chromium	0.23	2.0	0.13	ug/L	J		1	6020
7440-48-4	Cobalt	0.075	1.0	0.020	ug/L	J		1	6020
7440-50-8	Copper	3.3	2.0	0.24	ug/L		B	1	6020
7439-92-1	Lead	1.0	1.0	0.14	ug/L	U		1	6020
7439-98-7	Molybdenum	1.7	10	0.81	ug/L	J		1	6020
7440-02-0	Nickel	1.3	2.0	0.088	ug/L	J		1	6020
7782-49-2	Selenium	0.94	5.0	0.34	ug/L	J		1	6020
7440-22-4	Silver	0.011	1.0	0.0083	ug/L	J		1	6020
7440-28-0	Thallium	2.0	2.0	0.40	ug/L	U		1	6020
7440-62-2	Vanadium	3.3	5.0	0.15	ug/L	J	B	1	6020
7440-66-6	Zinc	4.7	20	2.1	ug/L	J		1	6020
7440-33-7	Tungsten	0.063	10	0.017	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: MSA-SW39D-071813 Lab Sample ID: 240-27038-12

Lab Name: TestAmerica Canton Job No.: 240-27038-1

SDG ID.:

Matrix: Water Date Sampled: 07/18/2013 10:34

Reporting Basis: WET Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.23	2.0	0.11	ug/L	J		1	6020
7440-38-2	Arsenic	1.8	5.0	0.063	ug/L	J	B	1	6020
7440-39-3	Barium	22	5.0	0.32	ug/L			1	6020
7440-41-7	Beryllium	0.066	1.0	0.031	ug/L	J	B	1	6020
7440-43-9	Cadmium	0.028	1.0	0.026	ug/L	J		1	6020
7440-47-3	Chromium	0.28	2.0	0.13	ug/L	J		1	6020
7440-48-4	Cobalt	0.062	1.0	0.020	ug/L	J		1	6020
7440-50-8	Copper	3.2	2.0	0.24	ug/L		B	1	6020
7439-92-1	Lead	1.0	1.0	0.14	ug/L	U		1	6020
7439-98-7	Molybdenum	1.7	10	0.81	ug/L	J		1	6020
7440-02-0	Nickel	1.3	2.0	0.088	ug/L	J		1	6020
7782-49-2	Selenium	0.72	5.0	0.34	ug/L	J		1	6020
7440-22-4	Silver	0.011	1.0	0.0083	ug/L	J		1	6020
7440-28-0	Thallium	2.0	2.0	0.40	ug/L	U		1	6020
7440-62-2	Vanadium	3.3	5.0	0.15	ug/L	J	B	1	6020
7440-66-6	Zinc	2.7	20	2.1	ug/L	J		1	6020
7440-33-7	Tungsten	0.070	10	0.017	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: MSA-SW40A-071813

Lab Sample ID: 240-27038-13

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 13:16

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.24	2.0	0.11	ug/L	J		1	6020
7440-38-2	Arsenic	2.4	5.0	0.063	ug/L	J	B	1	6020
7440-39-3	Barium	23	5.0	0.32	ug/L			1	6020
7440-41-7	Beryllium	0.070	1.0	0.031	ug/L	J	B	1	6020
7440-43-9	Cadmium	0.060	1.0	0.026	ug/L	J		1	6020
7440-47-3	Chromium	0.44	2.0	0.13	ug/L	J		1	6020
7440-48-4	Cobalt	0.15	1.0	0.020	ug/L	J		1	6020
7440-50-8	Copper	3.8	2.0	0.24	ug/L		B	1	6020
7439-92-1	Lead	0.20	1.0	0.14	ug/L	J		1	6020
7439-98-7	Molybdenum	1.7	10	0.81	ug/L	J		1	6020
7440-02-0	Nickel	1.3	2.0	0.088	ug/L	J		1	6020
7782-49-2	Selenium	0.82	5.0	0.34	ug/L	J		1	6020
7440-22-4	Silver	0.013	1.0	0.0083	ug/L	J		1	6020
7440-28-0	Thallium	2.0	2.0	0.40	ug/L	U		1	6020
7440-62-2	Vanadium	3.5	5.0	0.15	ug/L	J	B	1	6020
7440-66-6	Zinc	3.7	20	2.1	ug/L	J		1	6020
7440-33-7	Tungsten	0.084	10	0.017	ug/L	J		1	6020
7439-97-6	Mercury	0.20	0.20	0.12	ug/L	U		1	7470A

INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW40B-071813

Lab Sample ID: 240-27038-14

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 13:21

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.28	2.0	0.11	ug/L	J		1	6020
7440-38-2	Arsenic	2.5	5.0	0.063	ug/L	J	B	1	6020
7440-39-3	Barium	24	5.0	0.32	ug/L			1	6020
7440-41-7	Beryllium	0.067	1.0	0.031	ug/L	J	B	1	6020
7440-43-9	Cadmium	0.047	1.0	0.026	ug/L	J		1	6020
7440-47-3	Chromium	0.36	2.0	0.13	ug/L	J		1	6020
7440-48-4	Cobalt	0.093	1.0	0.020	ug/L	J		1	6020
7440-50-8	Copper	3.5	2.0	0.24	ug/L		B	1	6020
7439-92-1	Lead	1.0	1.0	0.14	ug/L	U		1	6020
7439-98-7	Molybdenum	1.8	10	0.81	ug/L	J		1	6020
7440-02-0	Nickel	1.3	2.0	0.088	ug/L	J		1	6020
7782-49-2	Selenium	0.74	5.0	0.34	ug/L	J		1	6020
7440-22-4	Silver	0.012	1.0	0.0083	ug/L	J		1	6020
7440-28-0	Thallium	2.0	2.0	0.40	ug/L	U		1	6020
7440-62-2	Vanadium	3.8	5.0	0.15	ug/L	J	B	1	6020
7440-66-6	Zinc	6.1	20	2.1	ug/L	J		1	6020
7440-33-7	Tungsten	0.082	10	0.017	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: MSA-SW40C-071813

Lab Sample ID: 240-27038-15

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 13:26

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.26	2.0	0.11	ug/L	J		1	6020
7440-38-2	Arsenic	2.2	5.0	0.063	ug/L	J	B	1	6020
7440-39-3	Barium	22	5.0	0.32	ug/L			1	6020
7440-41-7	Beryllium	0.050	1.0	0.031	ug/L	J	B	1	6020
7440-43-9	Cadmium	1.0	1.0	0.026	ug/L	U		1	6020
7440-47-3	Chromium	0.34	2.0	0.13	ug/L	J		1	6020
7440-48-4	Cobalt	0.076	1.0	0.020	ug/L	J		1	6020
7440-50-8	Copper	3.7	2.0	0.24	ug/L		B	1	6020
7439-92-1	Lead	1.0	1.0	0.14	ug/L	U		1	6020
7439-98-7	Molybdenum	1.6	10	0.81	ug/L	J		1	6020
7440-02-0	Nickel	1.3	2.0	0.088	ug/L	J		1	6020
7782-49-2	Selenium	0.85	5.0	0.34	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.0083	ug/L	U		1	6020
7440-28-0	Thallium	2.0	2.0	0.40	ug/L	U		1	6020
7440-62-2	Vanadium	3.4	5.0	0.15	ug/L	J	B	1	6020
7440-66-6	Zinc	4.7	20	2.1	ug/L	J		1	6020
7440-33-7	Tungsten	0.077	10	0.017	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: MSA-SW40D-071813

Lab Sample ID: 240-27038-16

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 13:32

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.25	2.0	0.11	ug/L	J		1	6020
7440-38-2	Arsenic	2.2	5.0	0.063	ug/L	J	B	1	6020
7440-39-3	Barium	23	5.0	0.32	ug/L			1	6020
7440-41-7	Beryllium	0.061	1.0	0.031	ug/L	J	B	1	6020
7440-43-9	Cadmium	1.0	1.0	0.026	ug/L	U		1	6020
7440-47-3	Chromium	0.34	2.0	0.13	ug/L	J		1	6020
7440-48-4	Cobalt	0.090	1.0	0.020	ug/L	J		1	6020
7440-50-8	Copper	3.8	2.0	0.24	ug/L		B	1	6020
7439-92-1	Lead	1.0	1.0	0.14	ug/L	U		1	6020
7439-98-7	Molybdenum	1.7	10	0.81	ug/L	J		1	6020
7440-02-0	Nickel	1.4	2.0	0.088	ug/L	J		1	6020
7782-49-2	Selenium	0.65	5.0	0.34	ug/L	J		1	6020
7440-22-4	Silver	0.0090	1.0	0.0083	ug/L	J		1	6020
7440-28-0	Thallium	2.0	2.0	0.40	ug/L	U		1	6020
7440-62-2	Vanadium	3.5	5.0	0.15	ug/L	J	B	1	6020
7440-66-6	Zinc	4.3	20	2.1	ug/L	J		1	6020
7440-33-7	Tungsten	0.086	10	0.017	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: MSA-SW41A-071813

Lab Sample ID: 240-27038-17

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 12:41

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.24	2.0	0.11	ug/L	J		1	6020
7440-38-2	Arsenic	2.4	5.0	0.063	ug/L	J	B	1	6020
7440-39-3	Barium	24	5.0	0.32	ug/L			1	6020
7440-41-7	Beryllium	0.049	1.0	0.031	ug/L	J	B	1	6020
7440-43-9	Cadmium	0.045	1.0	0.026	ug/L	J		1	6020
7440-47-3	Chromium	0.48	2.0	0.13	ug/L	J		1	6020
7440-48-4	Cobalt	0.21	1.0	0.020	ug/L	J		1	6020
7440-50-8	Copper	4.4	2.0	0.24	ug/L		B	1	6020
7439-92-1	Lead	0.28	1.0	0.14	ug/L	J		1	6020
7439-98-7	Molybdenum	1.7	10	0.81	ug/L	J		1	6020
7440-02-0	Nickel	1.4	2.0	0.088	ug/L	J		1	6020
7782-49-2	Selenium	0.76	5.0	0.34	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.0083	ug/L	U		1	6020
7440-28-0	Thallium	2.0	2.0	0.40	ug/L	U		1	6020
7440-62-2	Vanadium	3.8	5.0	0.15	ug/L	J	B	1	6020
7440-66-6	Zinc	5.4	20	2.1	ug/L	J		1	6020
7440-33-7	Tungsten	0.086	10	0.017	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: MSA-SW41B-071813

Lab Sample ID: 240-27038-18

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 12:45

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.22	2.0	0.11	ug/L	J		1	6020
7440-38-2	Arsenic	2.2	5.0	0.063	ug/L	J	B	1	6020
7440-39-3	Barium	22	5.0	0.32	ug/L			1	6020
7440-41-7	Beryllium	0.035	1.0	0.031	ug/L	J	B	1	6020
7440-43-9	Cadmium	0.037	1.0	0.026	ug/L	J		1	6020
7440-47-3	Chromium	0.29	2.0	0.13	ug/L	J		1	6020
7440-48-4	Cobalt	0.087	1.0	0.020	ug/L	J		1	6020
7440-50-8	Copper	3.6	2.0	0.24	ug/L		B	1	6020
7439-92-1	Lead	1.0	1.0	0.14	ug/L	U		1	6020
7439-98-7	Molybdenum	1.7	10	0.81	ug/L	J		1	6020
7440-02-0	Nickel	1.3	2.0	0.088	ug/L	J		1	6020
7782-49-2	Selenium	0.72	5.0	0.34	ug/L	J		1	6020
7440-22-4	Silver	0.022	1.0	0.0083	ug/L	J		1	6020
7440-28-0	Thallium	2.0	2.0	0.40	ug/L	U		1	6020
7440-62-2	Vanadium	3.7	5.0	0.15	ug/L	J	B	1	6020
7440-66-6	Zinc	5.2	20	2.1	ug/L	J		1	6020
7440-33-7	Tungsten	0.073	10	0.017	ug/L	J		1	6020
7439-97-6	Mercury	0.20	0.20	0.12	ug/L	U		1	7470A

INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW41C-071813 Lab Sample ID: 240-27038-19

Lab Name: TestAmerica Canton Job No.: 240-27038-1

SDG ID.:

Matrix: Water Date Sampled: 07/18/2013 12:49

Reporting Basis: WET Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.28	2.0	0.11	ug/L	J		1	6020
7440-38-2	Arsenic	2.2	5.0	0.063	ug/L	J	B	1	6020
7440-39-3	Barium	22	5.0	0.32	ug/L			1	6020
7440-41-7	Beryllium	0.056	1.0	0.031	ug/L	J	B	1	6020
7440-43-9	Cadmium	1.0	1.0	0.026	ug/L	U		1	6020
7440-47-3	Chromium	0.25	2.0	0.13	ug/L	J		1	6020
7440-48-4	Cobalt	0.071	1.0	0.020	ug/L	J		1	6020
7440-50-8	Copper	3.8	2.0	0.24	ug/L		B	1	6020
7439-92-1	Lead	1.0	1.0	0.14	ug/L	U		1	6020
7439-98-7	Molybdenum	1.7	10	0.81	ug/L	J		1	6020
7440-02-0	Nickel	1.3	2.0	0.088	ug/L	J		1	6020
7782-49-2	Selenium	0.67	5.0	0.34	ug/L	J		1	6020
7440-22-4	Silver	0.010	1.0	0.0083	ug/L	J		1	6020
7440-28-0	Thallium	2.0	2.0	0.40	ug/L	U		1	6020
7440-62-2	Vanadium	3.7	5.0	0.15	ug/L	J	B	1	6020
7440-66-6	Zinc	3.9	20	2.1	ug/L	J		1	6020
7440-33-7	Tungsten	0.13	10	0.017	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: MSA-SW41D-071813

Lab Sample ID: 240-27038-20

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 12:52

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.24	2.0	0.11	ug/L	J		1	6020
7440-38-2	Arsenic	2.3	5.0	0.063	ug/L	J	B	1	6020
7440-39-3	Barium	23	5.0	0.32	ug/L			1	6020
7440-41-7	Beryllium	0.047	1.0	0.031	ug/L	J	B	1	6020
7440-43-9	Cadmium	1.0	1.0	0.026	ug/L	U		1	6020
7440-47-3	Chromium	0.27	2.0	0.13	ug/L	J		1	6020
7440-48-4	Cobalt	0.091	1.0	0.020	ug/L	J		1	6020
7440-50-8	Copper	3.9	2.0	0.24	ug/L		B	1	6020
7439-92-1	Lead	1.0	1.0	0.14	ug/L	U		1	6020
7439-98-7	Molybdenum	1.7	10	0.81	ug/L	J		1	6020
7440-02-0	Nickel	1.2	2.0	0.088	ug/L	J		1	6020
7782-49-2	Selenium	0.89	5.0	0.34	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.0083	ug/L	U		1	6020
7440-28-0	Thallium	2.0	2.0	0.40	ug/L	U		1	6020
7440-62-2	Vanadium	3.8	5.0	0.15	ug/L	J	B	1	6020
7440-66-6	Zinc	3.6	20	2.1	ug/L	J		1	6020
7440-33-7	Tungsten	0.072	10	0.017	ug/L	J		1	6020
7439-97-6	Mercury	0.20	0.20	0.12	ug/L	U		1	7470A

INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW42A-071813 Lab Sample ID: 240-27038-21

Lab Name: TestAmerica Canton Job No.: 240-27038-1

SDG ID.:

Matrix: Water Date Sampled: 07/18/2013 13:37

Reporting Basis: WET Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.51	2.0	0.11	ug/L	J		1	6020
7440-38-2	Arsenic	2.4	5.0	0.063	ug/L	J	B	1	6020
7440-39-3	Barium	23	5.0	0.32	ug/L			1	6020
7440-41-7	Beryllium	0.41	1.0	0.031	ug/L	J	B	1	6020
7440-43-9	Cadmium	0.12	1.0	0.026	ug/L	J		1	6020
7440-47-3	Chromium	1.7	2.0	0.13	ug/L	J	B	1	6020
7440-48-4	Cobalt	0.24	1.0	0.020	ug/L	J	B	1	6020
7440-50-8	Copper	5.2	2.0	0.24	ug/L		B	1	6020
7439-92-1	Lead	0.72	1.0	0.14	ug/L	J	B	1	6020
7439-98-7	Molybdenum	1.7	10	0.81	ug/L	J		1	6020
7440-02-0	Nickel	2.2	2.0	0.088	ug/L		B	1	6020
7782-49-2	Selenium	1.1	5.0	0.34	ug/L	J		1	6020
7440-22-4	Silver	0.043	1.0	0.0083	ug/L	J	B	1	6020
7440-28-0	Thallium	2.0	2.0	0.40	ug/L	U		1	6020
7440-62-2	Vanadium	2.6	5.0	0.15	ug/L	J	B	1	6020
7440-66-6	Zinc	7.0	20	2.1	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.27	10	0.017	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: MSA-SW42B-071813

Lab Sample ID: 240-27038-22

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 13:42

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.52	2.0	0.11	ug/L	J		1	6020
7440-38-2	Arsenic	2.5	5.0	0.063	ug/L	J	B	1	6020
7440-39-3	Barium	23	5.0	0.32	ug/L			1	6020
7440-41-7	Beryllium	0.49	1.0	0.031	ug/L	J	B	1	6020
7440-43-9	Cadmium	0.34	1.0	0.026	ug/L	J		1	6020
7440-47-3	Chromium	0.61	2.0	0.13	ug/L	J	B	1	6020
7440-48-4	Cobalt	0.39	1.0	0.020	ug/L	J	B	1	6020
7440-50-8	Copper	7.0	2.0	0.24	ug/L		B	1	6020
7439-92-1	Lead	0.92	1.0	0.14	ug/L	J	B	1	6020
7439-98-7	Molybdenum	1.7	10	0.81	ug/L	J		1	6020
7440-02-0	Nickel	1.7	2.0	0.088	ug/L	J	B	1	6020
7782-49-2	Selenium	1.3	5.0	0.34	ug/L	J		1	6020
7440-22-4	Silver	0.035	1.0	0.0083	ug/L	J	B	1	6020
7440-28-0	Thallium	2.0	2.0	0.40	ug/L	U		1	6020
7440-62-2	Vanadium	3.1	5.0	0.15	ug/L	J	B	1	6020
7440-66-6	Zinc	4.2	20	2.1	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.30	10	0.017	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: MSA-SW42C-071813

Lab Sample ID: 240-27038-23

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 13:47

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.38	2.0	0.11	ug/L	J		1	6020
7440-38-2	Arsenic	2.4	5.0	0.063	ug/L	J	B	1	6020
7440-39-3	Barium	24	5.0	0.32	ug/L			1	6020
7440-41-7	Beryllium	0.28	1.0	0.031	ug/L	J	B	1	6020
7440-43-9	Cadmium	0.072	1.0	0.026	ug/L	J		1	6020
7440-47-3	Chromium	0.37	2.0	0.13	ug/L	J	B	1	6020
7440-48-4	Cobalt	0.13	1.0	0.020	ug/L	J	B	1	6020
7440-50-8	Copper	7.7	2.0	0.24	ug/L		B	1	6020
7439-92-1	Lead	0.36	1.0	0.14	ug/L	J	B	1	6020
7439-98-7	Molybdenum	1.8	10	0.81	ug/L	J		1	6020
7440-02-0	Nickel	1.4	2.0	0.088	ug/L	J	B	1	6020
7782-49-2	Selenium	0.95	5.0	0.34	ug/L	J		1	6020
7440-22-4	Silver	0.0090	1.0	0.0083	ug/L	J	B	1	6020
7440-28-0	Thallium	2.0	2.0	0.40	ug/L	U		1	6020
7440-62-2	Vanadium	3.3	5.0	0.15	ug/L	J	B	1	6020
7440-66-6	Zinc	6.1	20	2.1	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.13	10	0.017	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: MSA-SW42D-071813

Lab Sample ID: 240-27038-24

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 13:51

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.35	2.0	0.11	ug/L	J		1	6020
7440-38-2	Arsenic	2.2	5.0	0.063	ug/L	J	B	1	6020
7440-39-3	Barium	22	5.0	0.32	ug/L			1	6020
7440-41-7	Beryllium	0.23	1.0	0.031	ug/L	J	B	1	6020
7440-43-9	Cadmium	0.046	1.0	0.026	ug/L	J		1	6020
7440-47-3	Chromium	0.31	2.0	0.13	ug/L	J	B	1	6020
7440-48-4	Cobalt	0.11	1.0	0.020	ug/L	J	B	1	6020
7440-50-8	Copper	7.7	2.0	0.24	ug/L		B	1	6020
7439-92-1	Lead	0.26	1.0	0.14	ug/L	J	B	1	6020
7439-98-7	Molybdenum	1.7	10	0.81	ug/L	J		1	6020
7440-02-0	Nickel	1.3	2.0	0.088	ug/L	J	B	1	6020
7782-49-2	Selenium	0.80	5.0	0.34	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.0083	ug/L	U		1	6020
7440-28-0	Thallium	2.0	2.0	0.40	ug/L	U		1	6020
7440-62-2	Vanadium	3.3	5.0	0.15	ug/L	J	B	1	6020
7440-66-6	Zinc	8.1	20	2.1	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.12	10	0.017	ug/L	J		1	6020
7439-97-6	Mercury	0.12	0.20	0.12	ug/L	J		1	7470A

1A-IN

INORGANIC ANALYSIS DATA SHEET

METALS - DISSOLVED

Client Sample ID: MSA-SW43A-071813 Lab Sample ID: 240-27038-25

Lab Name: TestAmerica Canton Job No.: 240-27038-1

SDG ID.:

Matrix: Water Date Sampled: 07/18/2013 12:19

Reporting Basis: WET Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.32	2.0	0.11	ug/L	J		1	6020
7440-38-2	Arsenic	2.2	5.0	0.063	ug/L	J	B	1	6020
7440-39-3	Barium	23	5.0	0.32	ug/L			1	6020
7440-41-7	Beryllium	0.21	1.0	0.031	ug/L	J	B	1	6020
7440-43-9	Cadmium	0.065	1.0	0.026	ug/L	J		1	6020
7440-47-3	Chromium	0.32	2.0	0.13	ug/L	J	B	1	6020
7440-48-4	Cobalt	0.14	1.0	0.020	ug/L	J	B	1	6020
7440-50-8	Copper	8.1	2.0	0.24	ug/L		B	1	6020
7439-92-1	Lead	0.18	1.0	0.14	ug/L	J	B	1	6020
7439-98-7	Molybdenum	1.7	10	0.81	ug/L	J		1	6020
7440-02-0	Nickel	1.5	2.0	0.088	ug/L	J	B	1	6020
7782-49-2	Selenium	1.0	5.0	0.34	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.0083	ug/L	U		1	6020
7440-28-0	Thallium	2.0	2.0	0.40	ug/L	U		1	6020
7440-62-2	Vanadium	3.5	5.0	0.15	ug/L	J	B	1	6020
7440-66-6	Zinc	5.8	20	2.1	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.089	10	0.017	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: MSA-SW43B-071813

Lab Sample ID: 240-27038-26

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 12:26

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.30	2.0	0.11	ug/L	J		1	6020
7440-38-2	Arsenic	2.1	5.0	0.063	ug/L	J	B	1	6020
7440-39-3	Barium	22	5.0	0.32	ug/L			1	6020
7440-41-7	Beryllium	0.14	1.0	0.031	ug/L	J	B	1	6020
7440-43-9	Cadmium	0.040	1.0	0.026	ug/L	J		1	6020
7440-47-3	Chromium	0.28	2.0	0.13	ug/L	J	B	1	6020
7440-48-4	Cobalt	0.11	1.0	0.020	ug/L	J	B	1	6020
7440-50-8	Copper	3.9	2.0	0.24	ug/L		B	1	6020
7439-92-1	Lead	0.18	1.0	0.14	ug/L	J	B	1	6020
7439-98-7	Molybdenum	1.7	10	0.81	ug/L	J		1	6020
7440-02-0	Nickel	1.3	2.0	0.088	ug/L	J	B	1	6020
7782-49-2	Selenium	0.49	5.0	0.34	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.0083	ug/L	U		1	6020
7440-28-0	Thallium	2.0	2.0	0.40	ug/L	U		1	6020
7440-62-2	Vanadium	3.0	5.0	0.15	ug/L	J	B	1	6020
7440-66-6	Zinc	5.4	20	2.1	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.091	10	0.017	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: MSA-SW43C-071813

Lab Sample ID: 240-27038-27

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 12:30

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.30	2.0	0.11	ug/L	J		1	6020
7440-38-2	Arsenic	2.3	5.0	0.063	ug/L	J	B	1	6020
7440-39-3	Barium	22	5.0	0.32	ug/L			1	6020
7440-41-7	Beryllium	0.13	1.0	0.031	ug/L	J	B	1	6020
7440-43-9	Cadmium	0.037	1.0	0.026	ug/L	J		1	6020
7440-47-3	Chromium	0.27	2.0	0.13	ug/L	J	B	1	6020
7440-48-4	Cobalt	0.091	1.0	0.020	ug/L	J	B	1	6020
7440-50-8	Copper	0.41	2.0	0.24	ug/L	J	B	1	6020
7439-92-1	Lead	1.0	1.0	0.14	ug/L	U		1	6020
7439-98-7	Molybdenum	1.7	10	0.81	ug/L	J		1	6020
7440-02-0	Nickel	1.3	2.0	0.088	ug/L	J	B	1	6020
7782-49-2	Selenium	0.65	5.0	0.34	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.0083	ug/L	U		1	6020
7440-28-0	Thallium	2.0	2.0	0.40	ug/L	U		1	6020
7440-62-2	Vanadium	3.5	5.0	0.15	ug/L	J	B	1	6020
7440-66-6	Zinc	4.6	20	2.1	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.089	10	0.017	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: MSA-SW43D-071813

Lab Sample ID: 240-27038-28

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 12:34

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.29	2.0	0.11	ug/L	J		1	6020
7440-38-2	Arsenic	2.3	5.0	0.063	ug/L	J	B	1	6020
7440-39-3	Barium	23	5.0	0.32	ug/L			1	6020
7440-41-7	Beryllium	0.12	1.0	0.031	ug/L	J	B	1	6020
7440-43-9	Cadmium	0.026	1.0	0.026	ug/L	J		1	6020
7440-47-3	Chromium	0.29	2.0	0.13	ug/L	J	B	1	6020
7440-48-4	Cobalt	0.096	1.0	0.020	ug/L	J	B	1	6020
7440-50-8	Copper	4.0	2.0	0.24	ug/L		B	1	6020
7439-92-1	Lead	0.14	1.0	0.14	ug/L	J	B	1	6020
7439-98-7	Molybdenum	1.7	10	0.81	ug/L	J		1	6020
7440-02-0	Nickel	1.4	2.0	0.088	ug/L	J	B	1	6020
7782-49-2	Selenium	0.65	5.0	0.34	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.0083	ug/L	U		1	6020
7440-28-0	Thallium	2.0	2.0	0.40	ug/L	U		1	6020
7440-62-2	Vanadium	3.7	5.0	0.15	ug/L	J	B	1	6020
7440-66-6	Zinc	3.5	20	2.1	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.078	10	0.017	ug/L	J		1	6020
7439-97-6	Mercury	0.20	0.20	0.12	ug/L	U		1	7470A

INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW44A-071813

Lab Sample ID: 240-27038-29

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 11:15

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.28	2.0	0.11	ug/L	J		1	6020
7440-38-2	Arsenic	2.1	5.0	0.063	ug/L	J	B	1	6020
7440-39-3	Barium	23	5.0	0.32	ug/L			1	6020
7440-41-7	Beryllium	0.074	1.0	0.031	ug/L	J	B	1	6020
7440-43-9	Cadmium	0.033	1.0	0.026	ug/L	J		1	6020
7440-47-3	Chromium	0.24	2.0	0.13	ug/L	J	B	1	6020
7440-48-4	Cobalt	0.092	1.0	0.020	ug/L	J	B	1	6020
7440-50-8	Copper	3.6	2.0	0.24	ug/L		B	1	6020
7439-92-1	Lead	1.0	1.0	0.14	ug/L	U		1	6020
7439-98-7	Molybdenum	1.7	10	0.81	ug/L	J		1	6020
7440-02-0	Nickel	1.3	2.0	0.088	ug/L	J	B	1	6020
7782-49-2	Selenium	0.75	5.0	0.34	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.0083	ug/L	U		1	6020
7440-28-0	Thallium	2.0	2.0	0.40	ug/L	U		1	6020
7440-62-2	Vanadium	3.7	5.0	0.15	ug/L	J	B	1	6020
7440-66-6	Zinc	3.1	20	2.1	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.081	10	0.017	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: MSA-SW44B-071813

Lab Sample ID: 240-27038-30

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 11:22

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.27	2.0	0.11	ug/L	J		1	6020
7440-38-2	Arsenic	2.1	5.0	0.063	ug/L	J	B	1	6020
7440-39-3	Barium	22	5.0	0.32	ug/L			1	6020
7440-41-7	Beryllium	0.087	1.0	0.031	ug/L	J	B	1	6020
7440-43-9	Cadmium	0.044	1.0	0.026	ug/L	J		1	6020
7440-47-3	Chromium	0.30	2.0	0.13	ug/L	J	B	1	6020
7440-48-4	Cobalt	0.082	1.0	0.020	ug/L	J	B	1	6020
7440-50-8	Copper	3.6	2.0	0.24	ug/L		B	1	6020
7439-92-1	Lead	1.0	1.0	0.14	ug/L	U		1	6020
7439-98-7	Molybdenum	1.7	10	0.81	ug/L	J		1	6020
7440-02-0	Nickel	1.3	2.0	0.088	ug/L	J	B	1	6020
7782-49-2	Selenium	0.80	5.0	0.34	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.0083	ug/L	U		1	6020
7440-28-0	Thallium	2.0	2.0	0.40	ug/L	U		1	6020
7440-62-2	Vanadium	3.8	5.0	0.15	ug/L	J	B	1	6020
7440-66-6	Zinc	4.7	20	2.1	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.066	10	0.017	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: MSA-SW44C-071813

Lab Sample ID: 240-27038-31

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 11:25

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.26	2.0	0.11	ug/L	J		1	6020
7440-38-2	Arsenic	2.1	5.0	0.063	ug/L	J	B	1	6020
7440-39-3	Barium	22	5.0	0.32	ug/L			1	6020
7440-41-7	Beryllium	0.081	1.0	0.031	ug/L	J	B	1	6020
7440-43-9	Cadmium	0.043	1.0	0.026	ug/L	J		1	6020
7440-47-3	Chromium	0.37	2.0	0.13	ug/L	J	B	1	6020
7440-48-4	Cobalt	0.075	1.0	0.020	ug/L	J	B	1	6020
7440-50-8	Copper	3.4	2.0	0.24	ug/L		B	1	6020
7439-92-1	Lead	1.0	1.0	0.14	ug/L	U		1	6020
7439-98-7	Molybdenum	1.6	10	0.81	ug/L	J		1	6020
7440-02-0	Nickel	1.2	2.0	0.088	ug/L	J	B	1	6020
7782-49-2	Selenium	0.68	5.0	0.34	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.0083	ug/L	U		1	6020
7440-28-0	Thallium	2.0	2.0	0.40	ug/L	U		1	6020
7440-62-2	Vanadium	3.6	5.0	0.15	ug/L	J	B	1	6020
7440-66-6	Zinc	4.3	20	2.1	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.079	10	0.017	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: MSA-SW44D-071813 | Lab Sample ID: 240-27038-32

Lab Name: TestAmerica Canton | Job No.: 240-27038-1

SDG ID.:

Matrix: Water | Date Sampled: 07/18/2013 11:31

Reporting Basis: WET | Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.29	2.0	0.11	ug/L	J		1	6020
7440-38-2	Arsenic	2.2	5.0	0.063	ug/L	J	B	1	6020
7440-39-3	Barium	23	5.0	0.32	ug/L			1	6020
7440-41-7	Beryllium	0.078	1.0	0.031	ug/L	J	B	1	6020
7440-43-9	Cadmium	0.032	1.0	0.026	ug/L	J		1	6020
7440-47-3	Chromium	0.49	2.0	0.13	ug/L	J	B	1	6020
7440-48-4	Cobalt	0.15	1.0	0.020	ug/L	J	B	1	6020
7440-50-8	Copper	3.8	2.0	0.24	ug/L		B	1	6020
7439-92-1	Lead	0.26	1.0	0.14	ug/L	J	B	1	6020
7439-98-7	Molybdenum	1.8	10	0.81	ug/L	J		1	6020
7440-02-0	Nickel	1.5	2.0	0.088	ug/L	J	B	1	6020
7782-49-2	Selenium	0.74	5.0	0.34	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.0083	ug/L	U		1	6020
7440-28-0	Thallium	2.0	2.0	0.40	ug/L	U		1	6020
7440-62-2	Vanadium	4.0	5.0	0.15	ug/L	J	B	1	6020
7440-66-6	Zinc	6.4	20	2.1	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.065	10	0.017	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: MSA-SW45A-071813

Lab Sample ID: 240-27038-33

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 10:47

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.28	2.0	0.11	ug/L	J		1	6020
7440-38-2	Arsenic	2.1	5.0	0.063	ug/L	J	B	1	6020
7440-39-3	Barium	22	5.0	0.32	ug/L			1	6020
7440-41-7	Beryllium	0.063	1.0	0.031	ug/L	J	B	1	6020
7440-43-9	Cadmium	0.028	1.0	0.026	ug/L	J		1	6020
7440-47-3	Chromium	0.28	2.0	0.13	ug/L	J	B	1	6020
7440-48-4	Cobalt	0.083	1.0	0.020	ug/L	J	B	1	6020
7440-50-8	Copper	3.3	2.0	0.24	ug/L		B	1	6020
7439-92-1	Lead	1.0	1.0	0.14	ug/L	U		1	6020
7439-98-7	Molybdenum	1.7	10	0.81	ug/L	J		1	6020
7440-02-0	Nickel	1.4	2.0	0.088	ug/L	J	B	1	6020
7782-49-2	Selenium	0.91	5.0	0.34	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.0083	ug/L	U		1	6020
7440-28-0	Thallium	2.0	2.0	0.40	ug/L	U		1	6020
7440-62-2	Vanadium	3.8	5.0	0.15	ug/L	J	B	1	6020
7440-66-6	Zinc	3.3	20	2.1	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.084	10	0.017	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: MSA-SW45B-071813 | Lab Sample ID: 240-27038-34

Lab Name: TestAmerica Canton | Job No.: 240-27038-1

SDG ID.:

Matrix: Water | Date Sampled: 07/18/2013 10:53

Reporting Basis: WET | Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.24	2.0	0.11	ug/L	J		1	6020
7440-38-2	Arsenic	2.1	5.0	0.063	ug/L	J	B	1	6020
7440-39-3	Barium	22	5.0	0.32	ug/L			1	6020
7440-41-7	Beryllium	0.082	1.0	0.031	ug/L	J	B	1	6020
7440-43-9	Cadmium	1.0	1.0	0.026	ug/L	U		1	6020
7440-47-3	Chromium	0.25	2.0	0.13	ug/L	J	B	1	6020
7440-48-4	Cobalt	0.068	1.0	0.020	ug/L	J	B	1	6020
7440-50-8	Copper	3.8	2.0	0.24	ug/L		B	1	6020
7439-92-1	Lead	1.0	1.0	0.14	ug/L	U		1	6020
7439-98-7	Molybdenum	1.7	10	0.81	ug/L	J		1	6020
7440-02-0	Nickel	1.3	2.0	0.088	ug/L	J	B	1	6020
7782-49-2	Selenium	0.66	5.0	0.34	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.0083	ug/L	U		1	6020
7440-28-0	Thallium	2.0	2.0	0.40	ug/L	U		1	6020
7440-62-2	Vanadium	3.8	5.0	0.15	ug/L	J	B	1	6020
7440-66-6	Zinc	5.0	20	2.1	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.090	10	0.017	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: MSA-SW45C-071813 Lab Sample ID: 240-27038-35

Lab Name: TestAmerica Canton Job No.: 240-27038-1

SDG ID.:

Matrix: Water Date Sampled: 07/18/2013 11:00

Reporting Basis: WET Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.25	2.0	0.11	ug/L	J		1	6020
7440-38-2	Arsenic	2.1	5.0	0.063	ug/L	J	B	1	6020
7440-39-3	Barium	22	5.0	0.32	ug/L			1	6020
7440-41-7	Beryllium	0.051	1.0	0.031	ug/L	J	B	1	6020
7440-43-9	Cadmium	0.037	1.0	0.026	ug/L	J		1	6020
7440-47-3	Chromium	0.26	2.0	0.13	ug/L	J	B	1	6020
7440-48-4	Cobalt	0.063	1.0	0.020	ug/L	J	B	1	6020
7440-50-8	Copper	3.9	2.0	0.24	ug/L		B	1	6020
7439-92-1	Lead	1.0	1.0	0.14	ug/L	U		1	6020
7439-98-7	Molybdenum	1.7	10	0.81	ug/L	J		1	6020
7440-02-0	Nickel	1.5	2.0	0.088	ug/L	J	B	1	6020
7782-49-2	Selenium	0.74	5.0	0.34	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.0083	ug/L	U		1	6020
7440-28-0	Thallium	2.0	2.0	0.40	ug/L	U		1	6020
7440-62-2	Vanadium	3.7	5.0	0.15	ug/L	J	B	1	6020
7440-66-6	Zinc	3.2	20	2.1	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.088	10	0.017	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: MSA-SW45D-071813

Lab Sample ID: 240-27038-36

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 11:05

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.30	2.0	0.11	ug/L	J		1	6020
7440-38-2	Arsenic	2.1	5.0	0.063	ug/L	J	B	1	6020
7440-39-3	Barium	23	5.0	0.32	ug/L			1	6020
7440-41-7	Beryllium	0.062	1.0	0.031	ug/L	J	B	1	6020
7440-43-9	Cadmium	0.040	1.0	0.026	ug/L	J		1	6020
7440-47-3	Chromium	0.55	2.0	0.13	ug/L	J	B	1	6020
7440-48-4	Cobalt	0.074	1.0	0.020	ug/L	J	B	1	6020
7440-50-8	Copper	4.8	2.0	0.24	ug/L		B	1	6020
7439-92-1	Lead	1.0	1.0	0.14	ug/L	U		1	6020
7439-98-7	Molybdenum	1.6	10	0.81	ug/L	J		1	6020
7440-02-0	Nickel	1.4	2.0	0.088	ug/L	J	B	1	6020
7782-49-2	Selenium	0.62	5.0	0.34	ug/L	J		1	6020
7440-22-4	Silver	0.011	1.0	0.0083	ug/L	J	B	1	6020
7440-28-0	Thallium	2.0	2.0	0.40	ug/L	U		1	6020
7440-62-2	Vanadium	3.5	5.0	0.15	ug/L	J	B	1	6020
7440-66-6	Zinc	6.4	20	2.1	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.098	10	0.017	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: MSA-SW37A-071813

Lab Sample ID: 240-27038-1

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 14:00

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	380	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	98	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	290	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW37B-071813

Lab Sample ID: 240-27038-2

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 14:03

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	380	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	98	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	280	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW37C-071813

Lab Sample ID: 240-27038-3

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 14:08

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	400	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	100	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	290	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW37D-071813

Lab Sample ID: 240-27038-4

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 14:15

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	390	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	99	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	290	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW38A-071813

Lab Sample ID: 240-27038-5

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 12:58

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	380	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	97	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	280	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW38B-071813

Lab Sample ID: 240-27038-6

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 13:02

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	390	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	100	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	290	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW38C-071813

Lab Sample ID: 240-27038-7

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 13:06

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	390	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	99	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	290	21		mg/L			1	SM 2340B

FORM IA-IN

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW38D-071813

Lab Sample ID: 240-27038-8

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 13:10

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	390	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	100	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	290	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW39A-071813

Lab Sample ID: 240-27038-9

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 10:15

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	370	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	95	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	280	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW39B-071813

Lab Sample ID: 240-27038-10

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 10:21

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	390	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	99	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	290	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW39C-071813

Lab Sample ID: 240-27038-11

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 10:29

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	390	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	99	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	290	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW39D-071813

Lab Sample ID: 240-27038-12

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 10:34

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	390	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	100	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	290	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW40A-071813

Lab Sample ID: 240-27038-13

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 13:16

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	380	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	98	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	290	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW40B-071813

Lab Sample ID: 240-27038-14

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 13:21

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	410	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	110	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	310	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW40C-071813

Lab Sample ID: 240-27038-15

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 13:26

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	380	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	98	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	280	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW40D-071813

Lab Sample ID: 240-27038-16

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 13:32

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	390	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	99	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	290	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW41A-071813

Lab Sample ID: 240-27038-17

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 12:41

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	390	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	100	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	290	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW41B-071813 Lab Sample ID: 240-27038-18

Lab Name: TestAmerica Canton Job No.: 240-27038-1

SDG ID.:

Matrix: Water Date Sampled: 07/18/2013 12:45

Reporting Basis: WET Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	390	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	99	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	290	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW41C-071813

Lab Sample ID: 240-27038-19

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 12:49

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	390	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	100	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	290	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW41D-071813

Lab Sample ID: 240-27038-20

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 12:52

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	380	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	98	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	290	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW42A-071813

Lab Sample ID: 240-27038-21

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 13:37

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	380	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	95	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	280	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW42B-071813

Lab Sample ID: 240-27038-22

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 13:42

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	380	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	96	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	280	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW42C-071813

Lab Sample ID: 240-27038-23

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 13:47

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	400	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	100	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	300	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW42D-071813

Lab Sample ID: 240-27038-24

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 13:51

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	380	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	98	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	290	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW43A-071813

Lab Sample ID: 240-27038-25

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 12:19

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	390	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	97	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	290	21		mg/L			1	SM 2340B

1A-IN

INORGANIC ANALYSIS DATA SHEET

METALS - DISSOLVED

Client Sample ID: MSA-SW43B-071813

Lab Sample ID: 240-27038-26

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 12:26

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	380	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	98	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	290	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW43C-071813

Lab Sample ID: 240-27038-27

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 12:30

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	400	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	100	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	300	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW43D-071813

Lab Sample ID: 240-27038-28

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 12:34

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	400	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	100	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	300	21		mg/L			1	SM 2340B

INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW44A-071813

Lab Sample ID: 240-27038-29

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 11:15

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	400	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	100	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	300	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW44B-071813

Lab Sample ID: 240-27038-30

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 11:22

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	390	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	100	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	290	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW44C-071813

Lab Sample ID: 240-27038-31

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 11:25

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	390	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	97	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	290	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW44D-071813

Lab Sample ID: 240-27038-32

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 11:31

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	400	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	100	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	300	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW45A-071813

Lab Sample ID: 240-27038-33

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 10:47

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	390	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	98	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	290	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW45B-071813

Lab Sample ID: 240-27038-34

Lab Name: TestAmerica Canton

Job No.: 240-27038-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2013 10:53

Reporting Basis: WET

Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	390	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	99	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	290	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW45C-071813 Lab Sample ID: 240-27038-35

Lab Name: TestAmerica Canton Job No.: 240-27038-1

SDG ID.:

Matrix: Water Date Sampled: 07/18/2013 11:00

Reporting Basis: WET Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	390	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	97	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	290	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW45D-071813 Lab Sample ID: 240-27038-36

Lab Name: TestAmerica Canton Job No.: 240-27038-1

SDG ID.:

Matrix: Water Date Sampled: 07/18/2013 11:05

Reporting Basis: WET Date Received: 07/19/2013 09:25

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	390	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	98	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	290	21		mg/L			1	SM 2340B

Appendix C

Support Documentation

CASE NARRATIVE

Client: Tetra Tech, Inc

Project: MSA Surface Water

Report Number: 240-27038-1

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 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 07/19/2013; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 1.4 and 2.0 C.

VOLATILE ORGANIC COMPOUNDS (GCMS)
Samples MSA-SW37A-071813 (240-27038-1), MSA-SW37B-071813 (240-27038-2), MSA-SW37C-071813 (240-27038-3), MSA-SW37D-071813 (240-27038-4), MSA-SW38A-071813 (240-27038-5), MSA-SW38B-071813 (240-27038-6), MSA-SW38C-071813 (240-27038-7), MSA-SW38D-071813 (240-27038-8), MSA-SW39A-071813 (240-27038-9), MSA-SW39B-071813 (240-27038-10), MSA-SW39C-071813 (240-27038-11), MSA-SW39D-071813 (240-27038-12), MSA-SW40A-071813 (240-27038-13), MSA-SW40B-071813 (240-27038-14), MSA-SW40C-071813 (240-27038-15), MSA-SW40D-071813 (240-27038-16), MSA-SW41A-071813 (240-27038-17), MSA-SW41B-071813 (240-27038-18), MSA-SW41C-071813 (240-27038-19), MSA-SW41D-071813 (240-27038-20), MSA-SW42A-071813 (240-27038-21), MSA-SW42B-071813 (240-27038-22), MSA-SW42C-071813 (240-27038-23), MSA-SW42D-071813 (240-27038-24), MSA-SW43A-071813 (240-27038-25), MSA-SW43B-071813 (240-27038-26), MSA-SW43C-071813 (240-27038-27), MSA-SW43D-071813 (240-27038-28), MSA-SW44A-071813 (240-27038-29), MSA-SW44B-071813 (240-27038-30), MSA-SW44C-071813 (240-27038-31), MSA-SW44D-071813 (240-27038-32), MSA-SW45A-071813 (240-27038-33), MSA-SW45B-071813 (240-27038-34), MSA-SW45C-071813 (240-27038-35), MSA-SW45D-071813 (240-27038-36), EL-SW01A-071813 (240-27038-37), EL-SW01B-071813 (240-27038-38), EL-SW01C-071813 (240-27038-39), EL-SW01D-071813 (240-27038-40) and TB-071813 (240-27038-41) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 07/22/2013, 07/23/2013 and 07/24/2013.

Hexachlorobutadiene was detected in method blank MB 240-94518/5 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. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Methylene Chloride was detected in method blank MB 240-94651/6 at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Acetone and Methylene Chloride were detected in method blank MB 240-94801/6 at levels exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

No MS/MSD in batch 94518 due to rush requirements and capacity.

The following sample(s) submitted for volatiles analysis was received with insufficient preservation (pH >2): MSA-SW44C-071813 (240-27038-31).

The laboratory control sample (LCS) for batch 94651 recovered outside control limits for the following analyte(s): 1,2,3-Trichlorobenzene–has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

The laboratory control sample(LCS) for batch 94801 recovered outside control limits for the following analyte(s): 1,2,3-Trichlorobenzene–has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

No other difficulties were encountered during the VOCs analysis. All other quality control parameters were within the acceptance limits.

DISSOLVED METALS (ICPMS)

Samples MSA-SW37A-071813 (240-27038-1), MSA-SW37B-071813 (240-27038-2), MSA-SW37C-071813 (240-27038-3), MSA-SW37D-071813 (240-27038-4), MSA-SW38A-071813 (240-27038-5), MSA-SW38B-071813 (240-27038-6), MSA-SW38C-071813 (240-27038-7), MSA-SW38D-071813 (240-27038-8), MSA-SW39A-071813 (240-27038-9), MSA-SW39B-071813 (240-27038-10), MSA-SW39C-071813 (240-27038-11), MSA-SW39D-071813 (240-27038-12), MSA-SW40A-071813 (240-27038-13), MSA-SW40B-071813 (240-27038-14), MSA-SW40C-071813 (240-27038-15), MSA-SW40D-071813 (240-27038-16), MSA-SW41A-071813 (240-27038-17), MSA-SW41B-071813 (240-27038-18), MSA-SW41C-071813 (240-27038-19), MSA-SW41D-071813 (240-27038-20), MSA-SW42A-071813 (240-27038-21), MSA-SW42B-071813 (240-27038-22), MSA-SW42C-071813 (240-27038-23), MSA-SW42D-071813 (240-27038-24), MSA-SW43A-071813 (240-27038-25), MSA-SW43B-071813 (240-27038-26), MSA-SW43C-071813 (240-27038-27), MSA-SW43D-071813 (240-27038-28), MSA-SW44A-071813 (240-27038-29), MSA-SW44B-071813 (240-27038-30), MSA-SW44C-071813 (240-27038-31), MSA-SW44D-071813 (240-27038-32), MSA-SW45A-071813 (240-27038-33), MSA-SW45B-071813 (240-27038-34), MSA-SW45C-071813 (240-27038-35) and MSA-SW45D-071813 (240-27038-36) were analyzed for dissolved metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 07/22/2013 and analyzed on 07/23/2013 and 07/24/2013.

Copper was detected in method blank MB 240-94369/1-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 flagged.

Arsenic, Beryllium, Calcium and Vanadium were detected in method blank MB 240-94369/1-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. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Several analytes were detected in method blank MB 240-94371/1-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. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

No other difficulties were encountered during the metals analysis. All quality control parameters were within the acceptance limits.

DISSOLVED MERCURY (CVAA)

Samples MSA-SW37A-071813 (240-27038-1), MSA-SW37B-071813 (240-27038-2), MSA-SW37C-071813 (240-27038-3), MSA-SW37D-071813 (240-27038-4), MSA-SW38A-071813 (240-27038-5), MSA-SW38B-071813 (240-27038-6), MSA-SW38C-071813 (240-27038-7), MSA-SW38D-071813 (240-27038-8), MSA-SW39A-071813 (240-27038-9), MSA-SW39B-071813 (240-27038-10), MSA-SW39C-071813 (240-27038-11), MSA-SW39D-071813 (240-27038-12), MSA-SW40A-071813 (240-27038-13), MSA-SW40B-071813 (240-27038-14), MSA-SW40C-071813 (240-27038-15), MSA-SW40D-071813 (240-27038-16), MSA-SW41A-071813 (240-27038-17), MSA-SW41B-071813 (240-27038-18), MSA-SW41C-071813 (240-27038-19), MSA-SW41D-071813 (240-27038-20), MSA-SW42A-071813 (240-27038-21), MSA-SW42B-071813 (240-27038-22), MSA-SW42C-071813 (240-27038-23), MSA-SW42D-071813 (240-27038-24), MSA-SW43A-071813 (240-27038-25), MSA-SW43B-071813 (240-27038-26), MSA-SW43C-071813 (240-27038-27), MSA-SW43D-071813 (240-27038-28), MSA-SW44A-071813 (240-27038-29), MSA-SW44B-071813 (240-27038-30), MSA-SW44C-071813 (240-27038-31), MSA-SW44D-071813 (240-27038-32), MSA-SW45A-071813 (240-27038-33), MSA-SW45B-071813 (240-27038-34), MSA-SW45C-071813 (240-27038-35) and MSA-SW45D-071813 (240-27038-36) were analyzed for dissolved mercury (CVAA) in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 07/22/2013 and analyzed on 07/23/2013.

No difficulties were encountered during the mercury analysis. All quality control parameters were within the acceptance limits.

TOTAL HARDNESS (AS CACO3) BY CALCULATION-DISSOLVED

Samples MSA-SW37A-071813 (240-27038-1), MSA-SW37B-071813 (240-27038-2), MSA-SW37C-071813 (240-27038-3), MSA-SW37D-071813 (240-27038-4), MSA-SW38A-071813 (240-27038-5), MSA-SW38B-071813 (240-27038-6), MSA-SW38C-071813 (240-27038-7), MSA-SW38D-071813 (240-27038-8), MSA-SW39A-071813 (240-27038-9), MSA-SW39B-071813 (240-27038-10), MSA-SW39C-071813 (240-27038-11), MSA-SW39D-071813 (240-27038-12), MSA-SW40A-071813 (240-27038-13), MSA-SW40B-071813 (240-27038-14), MSA-SW40C-071813 (240-27038-15), MSA-SW40D-071813 (240-27038-16), MSA-SW41A-071813 (240-27038-17), MSA-SW41B-071813 (240-27038-18), MSA-SW41C-071813 (240-27038-19), MSA-SW41D-071813 (240-27038-20), MSA-SW42A-071813 (240-27038-21), MSA-SW42B-071813 (240-27038-22), MSA-SW42C-071813 (240-27038-23), MSA-SW42D-071813 (240-27038-24), MSA-SW43A-071813 (240-27038-25), MSA-SW43B-071813 (240-27038-26), MSA-SW43C-071813 (240-27038-27), MSA-SW43D-071813 (240-27038-28), MSA-SW44A-071813 (240-27038-29), MSA-SW44B-071813 (240-27038-30), MSA-SW44C-071813 (240-27038-31), MSA-SW44D-071813 (240-27038-32), MSA-SW45A-071813 (240-27038-33), MSA-SW45B-071813 (240-27038-34), MSA-SW45C-071813 (240-27038-35) and MSA-SW45D-071813 (240-27038-36) were analyzed for dissolved hardness (as $CaCO_3$) by calculation in accordance with SM 2340B. The samples were analyzed on 07/26/2013.

No difficulties were encountered during the hardness analysis. All quality control parameters were within the acceptance limits.

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: Tony Apanavage	Date: 7/18/13	COC No:
Tera Tech	Tel/Fax: 301-233-8230 (cell)	Lab Contact: Pat Omeara	Carrier: Fedex	1 of 4 COCs
20251 Century Blvd, Suite 200	Analysis Turnaround Time			Job No.
Germantown, MD 20874	Calendar (C) or Work Days (W)			
(301) 528-3021 Phone	TAT if different from Below			
(301) 528-3000 FAX	☐ 2 weeks			SDG No.
Project Name: MSA Surface Water Sampling	☐ 1 week			
Site: MSA Frog Mortar Creek	☐ 2 days			
P O #	☐ 1 day			Sampler:

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs	Dissolved Metals	Hardness	Sample Specific Notes:
MSA-SW37A-071813	7/18/2013	1400	SW	Water	4	x	x	x	x	
MSA-SW37B-071813	7/18/2013	1403	SW	Water	4	x	x	x	x	
MSA-SW37C-071813	7/18/2013	1408	SW	Water	4	x	x	x	x	
MSA-SW37D-071813	7/18/2013	1415	SW	Water	4	x	x	x	x	
~~MSA-SW38A-071813~~	~~7/18/2013~~	~~1258~~	~~SW~~	~~Water~~	~~4~~	x	x	x	x	
MSA-SW38B-071813	7/18/2013	1304	SW	Water	4	x	x	x	x	
MSA-SW38C-071813	7/18/2013	1306	SW	Water	4	x	x	x	x	
MSA-SW38D-071813	7/18/2013	1310	SW	Water	4	x	x	x	x	
MSA-SW39A-071813	7/18/2013	1015	SW	Water	4	x	x	x	x	
MSA-SW39B-071813	7/18/2013	1021	SW	Water	4	x	x	x	x	
MSA-SW39C-071813	7/18/2013	1029	SW	Water	4	x	x	x	x	
MSA-SW39D-071813	7/18/2013	1034	SW	Water	4	x	x	x	x	

240-27038 Chain of Custody

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:
[illegible]	Tetra Tech	7/18/13-1600	[illegible]	TestAmerica	7/18/13 / 1600
[illegible]	TestAmerica	7/18/13/1800	[illegible]	TAC	7/19/13 925

Form No. CA-C-WI-002, Rev. 2, dated 03/06/2012

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: Tony Apanavage	Date: 7/18/13	COC No:
Tera Tech	Tel/Fax: 301-233-8230 (cell)	Lab Contact: Pat Omeara	Carrier: Fedex	2 of 4 COCs
20251 Century Blvd, Suite 200	Analysis Turnaround Time			Job No.
Germantown, MD 20874	Calendar (C) or Work Days (W)			
(301) 528-3021 Phone	TAT if different from Below			
(301) 528-3000 FAX	☐ 2 weeks			SDG No.
Project Name: MSA Surface Water Sampling	☐ 1 week			
Site: MSA Frog Mortar Creek	☐ 2 days			
P O #	☐ 1 day			Sampler:

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs	Dissolved Metals	Hardness	Sample Specific Notes:
MSA-SW40A-071813	7/18/2013	1316	SW	Water	4	x	x	x	x	
MSA-SW40B-071813	7/18/2013	1321	SW	Water	4	x	x	x	x	
MSA-SW40C-071813	7/18/2013	1326	SW	Water	4	x	x	x	x	
MSA-SW40D-071813	7/18/2013	1332	SW	Water	4	x	x	x	x	
MSA-SW41A-071813	7/18/2013	1241	SW	Water	4	x	x	x	x	
MSA-SW41B-071813	7/18/2013	1245	SW	Water	4	x	x	x	x	
MSA-SW41C-071813	7/18/2013	1249	SW	Water	4	x	x	x	x	
MSA-SW41D-071813	7/18/2013	1252	SW	Water	4	x	x	x	x	
MSA-SW42A-071813	7/18/2013	1337	SW	Water	4	x	x	x	x	
MSA-SW42B-071813	7/18/2013	1342	SW	Water	4	x	x	x	x	
MSA-SW42C-071813	7/18/2013	1347	SW	Water	4	x	x	x	x	
MSA-SW42D-071813	7/18/2013	1351	SW	Water	4	x	x	x	x	

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:
[illegible]	Tera Tech	7/18/13-1600	[illegible]	7/18/13/1600	TestAmerica
[illegible]	TestAmerica	7/18/13/1800	[illegible]	TAC	7/19/13 925

Form No. CA-C-WI-002, Rev. 2, dated 03/06/2012

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: Tony Apanavage	Date: 7/18/13
Tera Tech	Tel/Fax: 301-233-8230 (cell)	Lab Contact: Pat Omeara	Carrier: Fedex
20251 Century Blvd, Suite 200	Analysis Turnaround Time		
Germantown, MD 20874	Calendar (C) or Work Days (W)		
(301) 528-3021 Phone	TAT if different from Below		
(301) 528-3000 FAX	☐ 2 weeks		
Project Name: MSA Surface Water Sampling	☐ 1 week		
Site: MSA Frog Mortar Creek	☐ 2 days		
P O #	☐ 1 day		

COC No: 3 of 4 COCs
Job No.
SDG No.
Sampler:

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs	Dissolved Metals	Hardness	Sample Specific Notes:
MSA-SW43A-071813	7/18/2013	1219	SW	Water	4	x	x	x	x	
MSA-SW43B-071813	7/18/2013	1221	SW	Water	4	x	x	x	x	
MSA-SW43C-071813	7/18/2013	1230	SW	Water	4	x	x	x	x	
MSA-SW43D-071813	7/18/2013	1234	SW	Water	4	x	x	x	x	
MSA-SW44A-071813	7/18/2013	1115	SW	Water	4	x	x	x	x	
MSA-SW44B-071813	7/18/2013	1122	SW	Water	4	x	x	x	x	
MSA-SW44C-071813	7/18/2013	1125	SW	Water	4	x	x	x	x	
MSA-SW44D-071813	7/18/2013	1131	SW	Water	4	x	x	x	x	
MSA-SW45A-071813	7/18/2013	1047	SW	Water	4	x	x	x	x	
MSA-SW45B-071813	7/18/2013	1053	SW	Water	4	x	x	x	x	
MSA-SW45C-071813	7/18/2013	1110	SW	Water	4	x	x	x	x	
MSA-SW45D-071813	7/18/2013	1105	SW	Water	4	x	x	x	x	

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:
[illegible]	Tera Tech	7/18/13-1100	[illegible]	TestAmerica	7/18/13 / 1600
[illegible]	TestAmerica	7/18/13/1800	[illegible]	TAC	7/19/13 925

Form No. CA-C-WI-002, Rev. 2, dated 03/06/2012

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: Tony Apanavage	Date: 7/18/13	COC No:
Tera Tech	Tel/Fax: 301-233-8230 (cell)	Lab Contact: Pat Omeara	Carrier: Fedex	4 of 4 COCs
20251 Century Blvd, Suite 200	Analysis Turnaround Time			Job No.
Germantown, MD 20874	Calendar (C) or Work Days (W)			
(301) 528-3021 Phone	TAT if different from Below			
(301) 528-3000 FAX	☐ 2 weeks			SDG No.
Project Name: MSA Surface Water Sampling	☐ 1 week			
Site: MSA Frog Mortar Creek	☐ 2 days			
P O #	☐ 1 day			Sampler:

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs	Dissolved Metals	Hardness	Sample Specific Notes:
EL-SW01A-071813	7/18/2013	0926	SW	AQ	3		x	x	x	
EL-SW01B-071813	7/18/2013	0942	SW	AQ	3		x	x	x	
EL-SW01C-071813	7/18/2013	0947	SW	AQ	3		x	x	x	
EL-SW01D-071813	7/18/2013	0951	SW	AQ	3		x	x	x	
TB-071813	–	–	TB	AQ	3		x			

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:
[illegible]	TetraTech	7/18/13-1600	[illegible]	TestAmerica	7/18/13 / 1600
[illegible]	TestAmerica	7/18/13/1800	[illegible]	[illegible]	7/19/13 925

Form No. CA-C-WI-002, Rev. 2, dated 03/06/2012

TestAmerica Canton Sample Receipt Form/Narrative Login # : 27038
Canton Facility

Client Tetra Tech Site Name ______ Cooler unpacked by:

Cooler Received on 7-19-13. Opened on 7-19-13

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# A (CF −1 °C) Observed Cooler Temp. ____ °C Corrected Cooler Temp. ____ °C~~

IR GUN# 4 (CF 0 °C) Observed Cooler Temp. ____ °C Corrected Cooler Temp. ____ °C See Multiple Cooler Form

IR GUN# 5 (CF +1 °C) Observed Cooler Temp. ____ °C Corrected Cooler Temp. ____ °C

~~IR GUN# 8 (CF 0 °C) Observed Cooler Temp. ____ °C Corrected Cooler 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 pH Strip Lot# HC376062
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 Samples processed by:

7/19/13

DID NOT RECEIVE METALS + HARDNESS VOLUME FOR the following samples

#SW01A, SW01B, SW01C, SW01D

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 the laboratory.

Time preserved: ______ Preservative(s) added/Lot number(s): ______.

HOLDTIME

SDG 240-27038-1

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
HGF	UG/L	MSA-SW43C-071813	240-27038-27	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
HGF	UG/L	MSA-SW41C-071813	240-27038-19	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
HGF	UG/L	MSA-SW41D-071813	240-27038-20	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
HGF	UG/L	MSA-SW42A-071813	240-27038-21	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
HGF	UG/L	MSA-SW42B-071813	240-27038-22	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
HGF	UG/L	MSA-SW42C-071813	240-27038-23	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
HGF	UG/L	MSA-SW42D-071813	240-27038-24	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
HGF	UG/L	MSA-SW41B-071813	240-27038-18	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
HGF	UG/L	MSA-SW43B-071813	240-27038-26	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
HGF	UG/L	MSA-SW44D-071813	240-27038-32	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
HGF	UG/L	MSA-SW43D-071813	240-27038-28	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
HGF	UG/L	MSA-SW44A-071813	240-27038-29	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
HGF	UG/L	MSA-SW44B-071813	240-27038-30	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
HGF	UG/L	MSA-SW44C-071813	240-27038-31	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
HGF	UG/L	MSA-SW45A-071813	240-27038-33	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
HGF	UG/L	MSA-SW45C-071813	240-27038-35	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
HGF	UG/L	MSA-SW45D-071813	240-27038-36	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
HGF	UG/L	MSA-SW43A-071813	240-27038-25	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
HGF	UG/L	MSA-SW37C-071813	240-27038-3	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
HGF	UG/L	MSA-SW45B-071813	240-27038-34	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
HGF	UG/L	MSA-SW41A-071813	240-27038-17	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
HGF	UG/L	MSA-SW37A-071813	240-27038-1	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
HGF	UG/L	MSA-SW37B-071813	240-27038-2	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
HGF	UG/L	MSA-SW37D-071813	240-27038-4	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
HGF	UG/L	MSA-SW38A-071813	240-27038-5	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
HGF	UG/L	MSA-SW38B-071813	240-27038-6	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
HGF	UG/L	MSA-SW38C-071813	240-27038-7	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
HGF	UG/L	MSA-SW40A-071813	240-27038-13	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
HGF	UG/L	MSA-SW40C-071813	240-27038-15	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
HGF	UG/L	MSA-SW38D-071813	240-27038-8	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
HGF	UG/L	MSA-SW40D-071813	240-27038-16	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
HGF	UG/L	MSA-SW40B-071813	240-27038-14	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
HGF	UG/L	MSA-SW39D-071813	240-27038-12	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
HGF	UG/L	MSA-SW39C-071813	240-27038-11	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
HGF	UG/L	MSA-SW39B-071813	240-27038-10	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
HGF	UG/L	MSA-SW39A-071813	240-27038-9	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
MF	UG/L	MSA-SW40B-071813	240-27038-14	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
MF	UG/L	MSA-SW40B-071813	240-27038-14	NM	7/18/2013	7/22/2013	7/24/2013	4	2	6
MF	UG/L	MSA-SW41B-071813	240-27038-18	NM	7/18/2013	7/22/2013	7/24/2013	4	2	6
MF	UG/L	MSA-SW40C-071813	240-27038-15	NM	7/18/2013	7/22/2013	7/24/2013	4	2	6
MF	UG/L	MSA-SW40D-071813	240-27038-16	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
MF	UG/L	MSA-SW40D-071813	240-27038-16	NM	7/18/2013	7/22/2013	7/24/2013	4	2	6
MF	UG/L	MSA-SW40C-071813	240-27038-15	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
MF	UG/L	MSA-SW41A-071813	240-27038-17	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
MF	UG/L	MSA-SW41C-071813	240-27038-19	NM	7/18/2013	7/22/2013	7/24/2013	4	2	6
MF	UG/L	MSA-SW41B-071813	240-27038-18	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
MF	UG/L	MSA-SW41C-071813	240-27038-19	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
MF	UG/L	MSA-SW40A-071813	240-27038-13	NM	7/18/2013	7/22/2013	7/24/2013	4	2	6
MF	UG/L	MSA-SW38A-071813	240-27038-5	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
MF	UG/L	MSA-SW41D-071813	240-27038-20	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
MF	UG/L	MSA-SW41A-071813	240-27038-17	NM	7/18/2013	7/22/2013	7/24/2013	4	2	6

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
MF	UG/L	MSA-SW38D-071813	240-27038-8	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
MF	UG/L	MSA-SW39D-071813	240-27038-12	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
MF	UG/L	MSA-SW41D-071813	240-27038-20	NM	7/18/2013	7/22/2013	7/24/2013	4	2	6
MF	UG/L	MSA-SW37A-071813	240-27038-1	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
MF	UG/L	MSA-SW37B-071813	240-27038-2	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
MF	UG/L	MSA-SW37C-071813	240-27038-3	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
MF	UG/L	MSA-SW38C-071813	240-27038-7	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
MF	UG/L	MSA-SW38B-071813	240-27038-6	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
MF	UG/L	MSA-SW40A-071813	240-27038-13	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
MF	UG/L	MSA-SW39A-071813	240-27038-9	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
MF	UG/L	MSA-SW39A-071813	240-27038-9	NM	7/18/2013	7/22/2013	7/24/2013	4	2	6
MF	UG/L	MSA-SW39B-071813	240-27038-10	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
MF	UG/L	MSA-SW39B-071813	240-27038-10	NM	7/18/2013	7/22/2013	7/24/2013	4	2	6
MF	UG/L	MSA-SW39C-071813	240-27038-11	NM	7/18/2013	7/22/2013	7/24/2013	4	2	6
MF	UG/L	MSA-SW39D-071813	240-27038-12	NM	7/18/2013	7/22/2013	7/24/2013	4	2	6
MF	UG/L	MSA-SW37D-071813	240-27038-4	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
MF	UG/L	MSA-SW45A-071813	240-27038-33	NM	7/18/2013	7/22/2013	7/24/2013	4	2	6
MF	UG/L	MSA-SW42A-071813	240-27038-21	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
MF	UG/L	MSA-SW39C-071813	240-27038-11	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
MF	UG/L	MSA-SW45D-071813	240-27038-36	NM	7/18/2013	7/22/2013	7/24/2013	4	2	6
MF	UG/L	MSA-SW45D-071813	240-27038-36	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
MF	UG/L	MSA-SW45C-071813	240-27038-35	NM	7/18/2013	7/22/2013	7/24/2013	4	2	6
MF	UG/L	MSA-SW45C-071813	240-27038-35	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
MF	UG/L	MSA-SW45B-071813	240-27038-34	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
MF	UG/L	MSA-SW45A-071813	240-27038-33	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
MF	UG/L	MSA-SW44D-071813	240-27038-32	NM	7/18/2013	7/22/2013	7/24/2013	4	2	6
MF	UG/L	MSA-SW44D-071813	240-27038-32	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
MF	UG/L	MSA-SW44C-071813	240-27038-31	NM	7/18/2013	7/22/2013	7/24/2013	4	2	6
MF	UG/L	MSA-SW44C-071813	240-27038-31	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
MF	UG/L	MSA-SW44B-071813	240-27038-30	NM	7/18/2013	7/22/2013	7/24/2013	4	2	6
MF	UG/L	MSA-SW43B-071813	240-27038-26	NM	7/18/2013	7/22/2013	7/24/2013	4	2	6
MF	UG/L	MSA-SW42C-071813	240-27038-23	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
MF	UG/L	MSA-SW45B-071813	240-27038-34	NM	7/18/2013	7/22/2013	7/24/2013	4	2	6
MF	UG/L	MSA-SW42B-071813	240-27038-22	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
MF	UG/L	MSA-SW44B-071813	240-27038-30	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
MF	UG/L	MSA-SW42D-071813	240-27038-24	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
MF	UG/L	MSA-SW43A-071813	240-27038-25	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
MF	UG/L	MSA-SW43B-071813	240-27038-26	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
MF	UG/L	MSA-SW43C-071813	240-27038-27	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
MF	UG/L	MSA-SW43C-071813	240-27038-27	NM	7/18/2013	7/22/2013	7/24/2013	4	2	6
MF	UG/L	MSA-SW43D-071813	240-27038-28	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
MF	UG/L	MSA-SW43D-071813	240-27038-28	NM	7/18/2013	7/22/2013	7/24/2013	4	2	6
MF	UG/L	MSA-SW44A-071813	240-27038-29	NM	7/18/2013	7/22/2013	7/23/2013	4	1	5
MF	UG/L	MSA-SW44A-071813	240-27038-29	NM	7/18/2013	7/22/2013	7/24/2013	4	2	6
HARD	MG/L	MSA-SW42C-071813	240-27038-23	NM	7/18/2013	7/26/2013	7/26/2013	8	0	8
HARD	MG/L	MSA-SW45B-071813	240-27038-34	NM	7/18/2013	7/26/2013	7/26/2013	8	0	8
HARD	MG/L	MSA-SW43C-071813	240-27038-27	NM	7/18/2013	7/26/2013	7/26/2013	8	0	8
HARD	MG/L	MSA-SW42B-071813	240-27038-22	NM	7/18/2013	7/26/2013	7/26/2013	8	0	8
HARD	MG/L	MSA-SW42A-071813	240-27038-21	NM	7/18/2013	7/26/2013	7/26/2013	8	0	8
HARD	MG/L	MSA-SW43A-071813	240-27038-25	NM	7/18/2013	7/26/2013	7/26/2013	8	0	8
HARD	MG/L	MSA-SW43B-071813	240-27038-26	NM	7/18/2013	7/26/2013	7/26/2013	8	0	8
HARD	MG/L	MSA-SW42D-071813	240-27038-24	NM	7/18/2013	7/26/2013	7/26/2013	8	0	8
HARD	MG/L	MSA-SW43D-071813	240-27038-28	NM	7/18/2013	7/26/2013	7/26/2013	8	0	8
HARD	MG/L	MSA-SW44A-071813	240-27038-29	NM	7/18/2013	7/26/2013	7/26/2013	8	0	8

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
HARD	MG/L	MSA-SW44B-071813	240-27038-30	NM	7/18/2013	7/26/2013	7/26/2013	8	0	8
HARD	MG/L	MSA-SW44C-071813	240-27038-31	NM	7/18/2013	7/26/2013	7/26/2013	8	0	8
HARD	MG/L	MSA-SW45A-071813	240-27038-33	NM	7/18/2013	7/26/2013	7/26/2013	8	0	8
HARD	MG/L	MSA-SW41D-071813	240-27038-20	NM	7/18/2013	7/26/2013	7/26/2013	8	0	8
HARD	MG/L	MSA-SW38B-071813	240-27038-6	NM	7/18/2013	7/26/2013	7/26/2013	8	0	8
HARD	MG/L	MSA-SW45C-071813	240-27038-35	NM	7/18/2013	7/26/2013	7/26/2013	8	0	8
HARD	MG/L	MSA-SW45D-071813	240-27038-36	NM	7/18/2013	7/26/2013	7/26/2013	8	0	8
HARD	MG/L	MSA-SW44D-071813	240-27038-32	NM	7/18/2013	7/26/2013	7/26/2013	8	0	8
HARD	MG/L	MSA-SW39B-071813	240-27038-10	NM	7/18/2013	7/26/2013	7/26/2013	8	0	8
HARD	MG/L	MSA-SW37B-071813	240-27038-2	NM	7/18/2013	7/26/2013	7/26/2013	8	0	8
HARD	MG/L	MSA-SW37A-071813	240-27038-1	NM	7/18/2013	7/26/2013	7/26/2013	8	0	8
HARD	MG/L	MSA-SW37C-071813	240-27038-3	NM	7/18/2013	7/26/2013	7/26/2013	8	0	8
HARD	MG/L	MSA-SW37D-071813	240-27038-4	NM	7/18/2013	7/26/2013	7/26/2013	8	0	8
HARD	MG/L	MSA-SW38A-071813	240-27038-5	NM	7/18/2013	7/26/2013	7/26/2013	8	0	8
HARD	MG/L	MSA-SW38C-071813	240-27038-7	NM	7/18/2013	7/26/2013	7/26/2013	8	0	8
HARD	MG/L	MSA-SW38D-071813	240-27038-8	NM	7/18/2013	7/26/2013	7/26/2013	8	0	8
HARD	MG/L	MSA-SW39A-071813	240-27038-9	NM	7/18/2013	7/26/2013	7/26/2013	8	0	8
HARD	MG/L	MSA-SW41C-071813	240-27038-19	NM	7/18/2013	7/26/2013	7/26/2013	8	0	8

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
HARD	MG/L	MSA-SW39C-071813	240-27038-11	NM	7/18/2013	7/26/2013	7/26/2013	8	0	8
HARD	MG/L	MSA-SW39D-071813	240-27038-12	NM	7/18/2013	7/26/2013	7/26/2013	8	0	8
HARD	MG/L	MSA-SW40A-071813	240-27038-13	NM	7/18/2013	7/26/2013	7/26/2013	8	0	8
HARD	MG/L	MSA-SW40B-071813	240-27038-14	NM	7/18/2013	7/26/2013	7/26/2013	8	0	8
HARD	MG/L	MSA-SW40C-071813	240-27038-15	NM	7/18/2013	7/26/2013	7/26/2013	8	0	8
HARD	MG/L	MSA-SW40D-071813	240-27038-16	NM	7/18/2013	7/26/2013	7/26/2013	8	0	8
HARD	MG/L	MSA-SW41A-071813	240-27038-17	NM	7/18/2013	7/26/2013	7/26/2013	8	0	8
HARD	MG/L	MSA-SW41B-071813	240-27038-18	NM	7/18/2013	7/26/2013	7/26/2013	8	0	8
OV	UG/L	MSA-SW41C-071813	240-27038-19	NM	7/18/2013	7/23/2013	7/23/2013	5	0	5
OV	UG/L	MSA-SW45D-071813	240-27038-36	NM	7/18/2013	7/23/2013	7/23/2013	5	0	5
OV	UG/L	MSA-SW45C-071813	240-27038-35	NM	7/18/2013	7/23/2013	7/23/2013	5	0	5
OV	UG/L	MSA-SW37C-071813	240-27038-3	NM	7/18/2013	7/22/2013	7/22/2013	4	0	4
OV	UG/L	MSA-SW42A-071813	240-27038-21	NM	7/18/2013	7/23/2013	7/23/2013	5	0	5
OV	UG/L	MSA-SW39C-071813	240-27038-11	NM	7/18/2013	7/22/2013	7/22/2013	4	0	4
OV	UG/L	MSA-SW39B-071813	240-27038-10	NM	7/18/2013	7/22/2013	7/22/2013	4	0	4
OV	UG/L	MSA-SW39A-071813	240-27038-9	NM	7/18/2013	7/22/2013	7/22/2013	4	0	4
OV	UG/L	MSA-SW38D-071813	240-27038-8	NM	7/18/2013	7/22/2013	7/22/2013	4	0	4
OV	UG/L	MSA-SW38C-071813	240-27038-7	NM	7/18/2013	7/22/2013	7/22/2013	4	0	4

METHOD SUMMARY

Client: Tetra Tech, Inc

Job Number: 240-27038-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Priority Pollutants	TAL CAN	SW846 8260B	
Purge and Trap	TAL CAN		SW846 5030B
Metals (ICP/MS)	TAL CAN	SW846 6020	
Preparation, Total Recoverable or Dissolved Metals	TAL CAN		SW846 3005A
Sample Filtration, Field			FIELD_FLTRD
Mercury (CVAA)	TAL CAN	SW846 7470A	
Preparation, Mercury	TAL CAN		SW846 7470A
Sample Filtration, Field			FIELD_FLTRD
Total Hardness (as CaCO3) by calculation	TAL CAN	SM SM 2340B	
Sample Filtration, Field			FIELD_FLTRD

Lab References:

TAL CAN = TestAmerica Canton

Method References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

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: 240-27038-1

SDG No.:

Project: MSA Surface Water

Client Sample ID	Lab Sample ID
MSA-SW37A-071813	240-27038-1
MSA-SW37B-071813	240-27038-2
MSA-SW37C-071813	240-27038-3
MSA-SW37D-071813	240-27038-4
MSA-SW38A-071813	240-27038-5
MSA-SW38B-071813	240-27038-6
MSA-SW38C-071813	240-27038-7
MSA-SW38D-071813	240-27038-8
MSA-SW39A-071813	240-27038-9
MSA-SW39B-071813	240-27038-10
MSA-SW39C-071813	240-27038-11
MSA-SW39D-071813	240-27038-12
MSA-SW40A-071813	240-27038-13
MSA-SW40B-071813	240-27038-14
MSA-SW40C-071813	240-27038-15
MSA-SW40D-071813	240-27038-16
MSA-SW41A-071813	240-27038-17
MSA-SW41B-071813	240-27038-18
MSA-SW41C-071813	240-27038-19
MSA-SW41D-071813	240-27038-20
MSA-SW42A-071813	240-27038-21
MSA-SW42B-071813	240-27038-22
MSA-SW42C-071813	240-27038-23
MSA-SW42D-071813	240-27038-24
MSA-SW43A-071813	240-27038-25
MSA-SW43B-071813	240-27038-26
MSA-SW43C-071813	240-27038-27
MSA-SW43D-071813	240-27038-28
MSA-SW44A-071813	240-27038-29
MSA-SW44B-071813	240-27038-30
MSA-SW44C-071813	240-27038-31
MSA-SW44D-071813	240-27038-32
MSA-SW45A-071813	240-27038-33
MSA-SW45B-071813	240-27038-34
MSA-SW45C-071813	240-27038-35
MSA-SW45D-071813	240-27038-36

Comments:

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-27038-1

SDG No.:

ICV Source: MTMSICVW_00029 Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW_00071

Analyte	ICV 240-94750/7 07/23/2013 12:22				CCV 240-94750/43 07/23/2013 14:51				CCV 240-94750/55 07/23/2013 15:39			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	39.6		40.0	99	51.4		50.0	103	51.3		50.0	103
Arsenic	38.6		40.0	97	50.7		50.0	101	49.9		50.0	100
Barium	39.8		40.0	99	50.0		50.0	100	50.1		50.0	100
Beryllium	37.9		40.0	95	47.4		50.0	95	47.9		50.0	96
Cadmium	40.2		40.0	100	50.7		50.0	101	49.8		50.0	100
Calcium	18700		20000	94	25100		25000	100	25000		25000	100
Chromium	37.8		40.0	94	50.8		50.0	102	49.5		50.0	99
Cobalt	37.1		40.0	93	51.2		50.0	102	49.8		50.0	100
Copper	39.7		40.0	99	50.3		50.0	101	50.9		50.0	102
Lead	39.0		40.0	98	49.5		50.0	99	48.4		50.0	97
Magnesium	18800		20000	94	25500		25000	102	25100		25000	100
Molybdenum	39.6		40.0	99	51.7		50.0	103	50.9		50.0	102
Nickel	36.6		40.0	92	50.2		50.0	100	48.8		50.0	98
Selenium	40.3		40.0	101	50.3		50.0	101	49.8		50.0	100
Silver	39.8		40.0	99	49.7		50.0	99	48.7		50.0	97
Thallium	39.0		40.0	97	49.2		50.0	98	48.2		50.0	96
Tungsten	38.9		40.0	97	51.5		50.0	103	50.8		50.0	102
Vanadium	37.7		40.0	94	50.3		50.0	101	49.9		50.0	100
Zinc	40.4		40.0	101	50.5		50.0	101	49.4		50.0	99

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton   Job No.: 240-27038-1

SDG No.:

ICV Source: MTMSICVW_00029   Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW_00071

Analyte	CCV 240-94750/67 07/23/2013 16:27				CCV 240-94750/79 07/23/2013 17:16				CCV 240-94750/91 07/23/2013 18:03			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	53.3		50.0	107	52.8		50.0	106	52.3		50.0	105
Arsenic	52.1		50.0	104	50.9		50.0	102	50.5		50.0	101
Barium	52.2		50.0	104	51.2		50.0	102	52.0		50.0	104
Beryllium	47.1		50.0	94	47.8		50.0	96	47.8		50.0	96
Cadmium	52.9		50.0	106	51.2		50.0	102	50.7		50.0	101
Calcium	26400		25000	105	25100		25000	101	25300		25000	101
Chromium	52.6		50.0	105	50.4		50.0	101	50.1		50.0	100
Cobalt	52.6		50.0	105	50.5		50.0	101	50.9		50.0	102
Copper	54.9		50.0	110	51.4		50.0	103	51.0		50.0	102
Lead	51.7		50.0	103	51.2		50.0	102	49.9		50.0	100
Magnesium	26700		25000	107	25200		25000	101	25200		25000	101
Molybdenum	53.8		50.0	108	52.4		50.0	105	51.6		50.0	103
Nickel	51.1		50.0	102	49.4		50.0	99	49.0		50.0	98
Selenium	52.2		50.0	104	51.0		50.0	102	50.0		50.0	100
Silver	51.3		50.0	103	49.9		50.0	100	49.8		50.0	100
Thallium	51.3		50.0	103	50.6		50.0	101	49.7		50.0	99
Tungsten	53.1		50.0	106	52.5		50.0	105	50.9		50.0	102
Vanadium	52.8		50.0	106	50.4		50.0	101	50.3		50.0	101
Zinc	51.8		50.0	104	50.0		50.0	100	49.3		50.0	99

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.: 240-27038-1

SDG No.:

ICV Source: MTMSICVW_00029   Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW_00071

Analyte	CCV 240-94750/103 07/23/2013 18:50				CCV 240-94750/115 07/23/2013 19:38				CCV 240-94750/127 07/23/2013 20:26			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	52.4		50.0	105	52.4		50.0	105	52.2		50.0	104
Arsenic	50.8		50.0	102	50.5		50.0	101	50.9		50.0	102
Barium	51.9		50.0	104	51.5		50.0	103	50.9		50.0	102
Beryllium	48.5		50.0	97	48.0		50.0	96	46.8		50.0	94
Cadmium	51.3		50.0	103	50.8		50.0	102	50.1		50.0	100
Calcium	25700		25000	103	25300		25000	101	25500		25000	102
Chromium	51.4		50.0	103	50.0		50.0	100	50.1		50.0	100
Cobalt	51.4		50.0	103	50.5		50.0	101	50.3		50.0	101
Copper	50.7		50.0	101	51.8		50.0	104	52.4		50.0	105
Lead	49.4		50.0	99	49.7		50.0	99	49.0		50.0	98
Magnesium	25800		25000	103	25200		25000	101	25300		25000	101
Molybdenum	51.7		50.0	103	51.9		50.0	104	52.0		50.0	104
Nickel	50.1		50.0	100	49.1		50.0	98	48.5		50.0	97
Selenium	50.8		50.0	102	50.3		50.0	101	50.7		50.0	101
Silver	49.4		50.0	99	49.4		50.0	99	49.5		50.0	99
Thallium	49.1		50.0	98	49.2		50.0	98	48.9		50.0	98
Tungsten	51.3		50.0	103	50.9		50.0	102	50.3		50.0	101
Vanadium	51.6		50.0	103	50.8		50.0	102	50.9		50.0	102
Zinc	50.5		50.0	101	49.3		50.0	99	49.0		50.0	98

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.: 240-27038-1

SDG No.:

ICV Source: MTMSICVW_00029 Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW_00071

Analyte	CCV 240-94750/132 07/23/2013 20:46											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	51.8		50.0	104								
Arsenic	49.9		50.0	100								
Barium	51.3		50.0	103								
Beryllium	48.7		50.0	97								
Cadmium	50.2		50.0	100								
Calcium	25400		25000	102								
Chromium	49.8		50.0	100								
Cobalt	49.9		50.0	100								
Copper	50.8		50.0	102								
Lead	49.8		50.0	100								
Magnesium	24800		25000	99								
Molybdenum	51.7		50.0	103								
Nickel	48.6		50.0	97								
Selenium	50.5		50.0	101								
Silver	49.3		50.0	99								
Thallium	49.3		50.0	99								
Tungsten	50.2		50.0	100								
Vanadium	50.0		50.0	100								
Zinc	50.8		50.0	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.: 240-27038-1

SDG No.:

ICV Source: MTMSICVW+Li_00001 Concentration Units: ug/L

CCV Source: MTCAL2CCVW+Li_00001

Analyte	ICV 240-94920/7 07/24/2013 14:24				CCV 240-94920/69 07/24/2013 18:29				CCV 240-94920/81 07/24/2013 19:16			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Copper	39.7		40.0	99	51.7		50.0	103	50.1		50.0	100
Antimony	40.1		40.0	100	49.7		50.0	99	49.7		50.0	99
Arsenic	39.6		40.0	99	48.3		50.0	97	48.2		50.0	96
Barium	40.1		40.0	100	50.3		50.0	101	50.3		50.0	101
Beryllium	40.0		40.0	100	51.3		50.0	103	51.7		50.0	103
Cadmium	40.9		40.0	102	50.5		50.0	101	49.6		50.0	99
Calcium	19100		20000	96	24900		25000	100	25100		25000	100
Chromium	38.8		40.0	97	50.8		50.0	102	49.3		50.0	99
Cobalt	38.2		40.0	95	50.7		50.0	101	49.4		50.0	99
Lead	40.5		40.0	101	50.2		50.0	100	50.4		50.0	101
Magnesium	19200		20000	96	24900		25000	100	24700		25000	99
Molybdenum	40.9		40.0	102	50.5		50.0	101	51.0		50.0	102
Nickel	38.0		40.0	95	49.9		50.0	100	48.6		50.0	97
Selenium	40.8		40.0	102	48.5		50.0	97	50.1		50.0	100
Silver	40.7		40.0	102	50.6		50.0	101	50.3		50.0	101
Thallium	40.5		40.0	101	49.7		50.0	99	50.2		50.0	100
Tungsten	39.6		40.0	99	50.0		50.0	100	49.5		50.0	99
Vanadium	38.9		40.0	97	49.5		50.0	99	49.0		50.0	98
Zinc	40.0		40.0	100	52.4		50.0	105	50.5		50.0	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.: 240-27038-1

SDG No.:

ICV Source: MTMSICVW+Li_00001   Concentration Units: ug/L

CCV Source: MTCAL2CCVW+Li_00001

	CCV 240-94920/93 07/24/2013 20:04				CCV 240-94920/105 07/24/2013 20:52				CCV 240-94920/117 07/24/2013 21:39			
Analyte	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Copper	49.7		50.0	99	48.7		50.0	97	50.0		50.0	100
Antimony	50.0		50.0	100	50.0		50.0	100	51.4		50.0	103
Arsenic	49.0		50.0	98	48.7		50.0	97	49.3		50.0	99
Barium	50.4		50.0	101	50.4		50.0	101	50.9		50.0	102
Beryllium	51.1		50.0	102	50.3		50.0	101	51.1		50.0	102
Cadmium	49.9		50.0	100	49.7		50.0	99	50.5		50.0	101
Calcium	25100		25000	101	25000		25000	100	25300		25000	101
Chromium	49.3		50.0	99	48.6		50.0	97	49.8		50.0	100
Cobalt	49.2		50.0	98	48.6		50.0	97	50.1		50.0	100
Lead	50.6		50.0	101	50.2		50.0	100	51.5		50.0	103
Magnesium	25100		25000	101	25100		25000	100	25200		25000	101
Molybdenum	51.0		50.0	102	50.7		50.0	101	50.6		50.0	101
Nickel	48.2		50.0	96	47.1		50.0	94	48.7		50.0	97
Selenium	50.2		50.0	100	50.2		50.0	100	51.2		50.0	102
Silver	50.0		50.0	100	50.0		50.0	100	49.9		50.0	100
Thallium	49.8		50.0	100	49.9		50.0	100	50.1		50.0	100
Tungsten	49.0		50.0	98	48.8		50.0	98	49.8		50.0	100
Vanadium	49.0		50.0	98	49.0		50.0	98	50.1		50.0	100
Zinc	51.1		50.0	102	50.0		50.0	100	51.8		50.0	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.: 240-27038-1

SDG No.:

ICV Source: MTHgStd_00009 Concentration Units: ug/L

CCV Source: MTHGCALW_00424

Analyte	ICV 240-94380/8-A 07/23/2013 08:12				CCVL 240-94380/11-A 07/23/2013 08:17				CCV 240-94380/13-A 07/23/2013 08:37			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	5.15		5.00	103	10.1		10.0	101	10.3		10.0	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.: 240-27038-1

SDG No.:

ICV Source: MTHgStd_00009 Concentration Units: ug/L

CCV Source: MTHGCALW_00424

Analyte	CCV 240-94380/13-A 07/23/2013 08:57				CCV 240-94380/13-A 07/23/2013 09:14				CCV 240-94380/13-A 07/23/2013 09:33			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	10.1		10.0	101	10.3		10.0	103	10.2		10.0	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.: 240-27038-1

SDG No.:

ICV Source: MTHgStd_00009 Concentration Units: ug/L

CCV Source: MTHGCALW_00424

Analyte	CCV 240-94380/13-A 07/23/2013 09:50				CCV 240-94380/13-A 07/23/2013 10:09							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	10.2		10.0	102	10.2		10.0	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.: 240-27038-1

SDG No.:

Method: 6020 Instrument ID: I10

Lab Sample ID: CRI 240-94750/9 Concentration Units: ug/L

CRQL Check Standard Source: MTMSCRI6020AW_00006

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Antimony	2.00	2.08		104	50-150
Arsenic	5.00	4.84	J	97	50-150
Barium	5.00	5.04		101	50-150
Beryllium	1.00	0.955	J	96	50-150
Cadmium	1.00	0.969	J	97	50-150
Chromium	2.00	2.13		107	50-150
Cobalt	1.00	1.04		104	50-150
Copper	2.00	2.23		112	50-150
Lead	1.00	0.986	J	99	50-150
Molybdenum	10.0	10.1		101	50-150
Nickel	2.00	2.07		103	50-150
Selenium	5.00	5.28		106	50-150
Silver	1.00	1.01		101	50-150
Thallium	2.00	1.92	J	96	50-150
Vanadium	5.00	5.05		101	50-150
Zinc	20.0	23.5		117	50-150
Calcium	1000	1020		102	50-150
Magnesium	1000	1030		103	50-150
Tungsten	10.0	10.0		100	50-150

Lab Sample ID: CRI 240-94920/9 Concentration Units: ug/L

CRQL Check Standard Source: MTCRI6020A+Li_00002

Copper only

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Antimony	2.00	2.11		105	50-150
Arsenic	5.00	4.81	J	96	50-150
Barium	5.00	4.87	J	97	50-150
Beryllium	1.00	1.03		103	50-150
Cadmium	1.00	1.01		101	50-150
Chromium	2.00	2.34		117	50-150
Cobalt	1.00	1.04		104	50-150
Copper	2.00	2.15		107	50-150
Lead	1.00	0.998	J	100	50-150
Molybdenum	10.0	10.1		101	50-150
Nickel	2.00	2.28		114	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.: 240-27038-1

SDG No.:

Method: 6020 Instrument ID: I10

Lab Sample ID: CRI 240-94920/9 Concentration Units: ug/L

CRQL Check Standard Source: MTCRI6020A+Li_00002

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Selenium	5.00	5.14		103	50-150
Silver	1.00	1.03		103	50-150
Thallium	2.00	1.99	J	99	50-150
Vanadium	5.00	4.97	J	99	50-150
Zinc	20.0	23.2		116	50-150
Calcium	1000	1020		102	50-150
Magnesium	1000	1010		101	50-150
Tungsten	10.0	10.1		101	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.: 240-27038-1

SDG No.:

Method: 7470A   Instrument ID: H1

Lab Sample ID: CRA 240-94380/10-A   Concentration Units: ug/L

CRQL Check Standard Source: MTHGCALW_00424

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.175	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.: 240-27038-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 240-94380/9-A 07/23/2013 08:14		CCB 240-94380/12-A 07/23/2013 08:39		CCB 240-94380/12-A 07/23/2013 08:58		CCB 240-94380/12-A 07/23/2013 09:15	
		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.: 240-27038-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	CCB 240-94380/12-A 07/23/2013 09:34		CCB 240-94380/12-A 07/23/2013 09:51		CCB 240-94380/12-A 07/23/2013 10:11			
		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.

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton   Job No.: 240-27038-1

SDG No.:

Instrument ID: I10   Method: 6020

Start Date: 07/23/2013 11:57   End Date: 07/23/2013 20:49

Lab Sample ID	D/F	Type	Time	Analytes																		
				Ag	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Mg	Mo	Ni	Pb	Sb	Se	Tl	V	W	Zn
ZZZZZZ			11:57																			
ICIS 240-94750/2			12:01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD1 240-94750/3 IC	1		12:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD2 240-94750/4 IC	1		12:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD3 240-94750/5 IC	1		12:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD4 240-94750/6 IC	1		12:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICV 240-94750/7	1		12:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB 240-94750/8	1		12:26	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X
CRI 240-94750/9	1		12:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSA 240-94750/10	1		12:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB 240-94750/11	1		12:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 240-94750/12			12:42																			
CCB 240-94750/13			12:45																			
ZZZZZZ			12:51																			
ZZZZZZ			12:55																			
ZZZZZZ			12:59																			
ZZZZZZ			13:03																			
CCV 240-94750/18			13:07																			
CCB 240-94750/19			13:11																			
ZZZZZZ			13:16																			
ZZZZZZ			13:20																			
ZZZZZZ			13:24																			
ZZZZZZ			13:28																			
ZZZZZZ			13:32																			
ZZZZZZ			13:35																			
ZZZZZZ			13:39																			
CCV 240-94750/27			13:43																			
CCB 240-94750/28			13:47																			
ZZZZZZ			13:51																			
CCV 240-94750/30			13:55																			
CCB 240-94750/31			13:59																			
ZZZZZZ			14:03																			
ZZZZZZ			14:07																			
ZZZZZZ			14:11																			
ZZZZZZ			14:15																			
ZZZZZZ			14:19																			
ZZZZZZ			14:23																			
ZZZZZZ			14:27																			
CCV 240-94750/39			14:31																			
CCB 240-94750/40			14:35																			
ZZZZZZ			14:39																			
CRI 240-94750/42			14:47																			

ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-27038-1

SDG No.:

Instrument ID: I10 Method: 6020

Start Date: 07/23/2013 11:57 End Date: 07/23/2013 20:49

Lab Sample ID	D/F	Type	Time	Ag	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Mg	Mo	Ni	Pb	Sb	Se	Tl	V	W	Zn
CCV 240-94750/43	1		14:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 240-94750/44	1		14:55	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X
MB 240-94371/1-A	1	R	14:59	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X
LCS 240-94371/2-A	1	R	15:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-27038-21	1	D	15:07	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X
240-27038-21 SD	5	D	15:11	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X
240-27038-21 MS	1	D	15:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-27038-21 MSD	1	D	15:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-27038-22	1	D	15:23	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X
240-27038-23	1	D	15:27	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X
240-27038-24	1	D	15:31	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X
240-27038-25	1	D	15:35	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X
CCV 240-94750/55	1		15:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 240-94750/56	1		15:43	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X
240-27038-26	1	D	15:46	X	X	X	X		X	X	X			X	X	X	X	X	X	X	X	X
240-27038-27	1	D	15:51	X	X	X	X		X	X	X			X	X	X	X	X	X	X	X	X
240-27038-28	1	D	15:55	X	X	X	X		X	X	X			X	X	X	X	X	X	X	X	X
240-27038-29	1	D	15:59	X	X	X	X		X	X	X			X	X	X	X	X	X	X	X	X
240-27038-30	1	D	16:03	X	X	X	X		X	X	X			X	X	X	X	X	X	X	X	X
240-27038-31	1	D	16:07	X	X	X	X		X	X	X			X	X	X	X	X	X	X	X	X
240-27038-32	1	D	16:11	X	X	X	X		X	X	X			X	X	X	X	X	X	X	X	X
240-27038-33	1	D	16:15	X	X	X	X		X	X	X			X	X	X	X	X	X	X	X	X
240-27038-34	1	D	16:19	X	X	X	X		X	X	X			X	X	X	X	X	X	X	X	X
240-27038-35	1	D	16:23	X	X	X	X		X	X	X			X	X	X	X	X	X	X	X	X
CCV 240-94750/67	1		16:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 240-94750/68	1		16:30	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X
240-27038-36	1	D	16:34	X	X	X	X		X	X	X			X	X	X	X	X	X	X	X	X
ZZZZZZ			16:38																			
ZZZZZZ			16:44																			
ZZZZZZ			16:48																			
ZZZZZZ			16:52																			
ZZZZZZ			16:56																			
ZZZZZZ			17:00																			
ZZZZZZ			17:04																			
ZZZZZZ			17:08																			
ZZZZZZ			17:12																			
CCV 240-94750/79	1		17:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 240-94750/80	1		17:20	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X
ZZZZZZ			17:23																			
ZZZZZZ			17:27																			
ZZZZZZ			17:31																			
ZZZZZZ			17:35																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-27038-1

SDG No.:

Instrument ID: I10 Method: 6020

Start Date: 07/23/2013 11:57 End Date: 07/23/2013 20:49

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Mg	Mo	Ni	Pb	Sb	Se	Tl	V	W	Zn	
ZZZZZZ			17:39																				
ZZZZZZ			17:43																				
ZZZZZZ			17:47																				
ZZZZZZ			17:51																				
ZZZZZZ			17:55																				
ZZZZZZ			17:59																				
CCV 240-94750/91	1		18:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCB 240-94750/92	1		18:07	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X	
ZZZZZZ			18:11																				
ZZZZZZ			18:15																				
ZZZZZZ			18:19																				
ZZZZZZ			18:23																				
ZZZZZZ			18:27																				
ZZZZZZ			18:31																				
ZZZZZZ			18:35																				
MB 240-94369/1-A	1	R	18:39	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X	
LCS 240-94369/2-A	1	R	18:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
240-27038-1	1	D	18:46	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X	
CCV 240-94750/103	1		18:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCB 240-94750/104	1		18:54	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X	
240-27038-1 SD	5	D	18:58	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X	
240-27038-1 MS	1	D	19:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
240-27038-1 MSD	1	D	19:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
240-27038-2	1	D	19:10	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X	
240-27038-3	1	D	19:14	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X	
240-27038-4	1	D	19:18	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X	
240-27038-5	1	D	19:22	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X	
240-27038-6	1	D	19:26	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X	
240-27038-7	1	D	19:30	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X	
240-27038-8	1	D	19:34	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X	
CCV 240-94750/115	1		19:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCB 240-94750/116	1		19:42	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X	
240-27038-9	1	D	19:46	X	X	X	X		X	X	X			X	X	X	X	X	X	X	X	X	
240-27038-10	1	D	19:50	X	X	X	X		X	X	X			X	X	X	X	X	X	X	X	X	
240-27038-11	1	D	19:54	X	X	X	X		X	X	X			X	X	X	X	X	X	X	X	X	
240-27038-12	1	D	19:58	X	X	X	X		X	X	X			X	X	X	X	X	X	X	X	X	
240-27038-13	1	D	20:02	X	X	X	X		X	X	X			X	X	X	X	X	X	X	X	X	
240-27038-14	1	D	20:06	X	X	X	X		X	X	X			X	X	X	X	X	X	X	X	X	
240-27038-15	1	D	20:10	X	X	X	X		X	X	X			X	X	X	X	X	X	X	X	X	
240-27038-16	1	D	20:14	X	X	X	X		X	X	X			X	X	X	X	X	X	X	X	X	
240-27038-17	1	D	20:18	X	X	X	X		X	X	X			X	X	X	X	X	X	X	X	X	
240-27038-18	1	D	20:22	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.: 240-27038-1

SDG No.:

Instrument ID: I10   Method: 6020

Start Date: 07/23/2013 11:57   End Date: 07/23/2013 20:49

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Mg	Mo	Ni	Pb	Sb	Se	Tl	V	W	Zn	
CCV 240-94750/127	1		20:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCB 240-94750/128	1		20:30 ✓	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X	
240-27038-19	1	D	20:34	X	X	X	X		X	X	X			X	X	X	X	X	X	X	X	X	
240-27038-20	1	D	20:38	X	X	X	X		X	X	X			X	X	X	X	X	X	X	X	X	
ZZZZZZ			20:42																				
CCV 240-94750/132	1		20:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCB 240-94750/133	1		20:49	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X	

Prep Types

D = Dissolved

R = Total Recoverable

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton   Job No.: 240-27038-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 240-94920/8 07/24/2013 14:28		CCB 240-94920/70 07/24/2013 18:33		CCB 240-94920/82 07/24/2013 19:20		CCB 240-94920/94 07/24/2013 20:08	
		Found	C	Found	C	Found	C	Found	C
Copper	2.0	2.0	U	2.0	U	2.0	U	2.0	U
Antimony	2.0	0.143	J	2.0	U	2.0	U	2.0	U
Arsenic	5.0	5.0	U	0.0760	J	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	0.0350	J
Cadmium	1.0	1.0	U	0.0800	J	1.0	U	1.0	U
Calcium	1000	1000	U	40.3	J	1000	U	1000	U
Chromium	2.0	2.0	U	2.0	U	2.0	U	2.0	U
Cobalt	1.0	1.0	U	0.0810	J	0.0210	J	0.0280	J
Lead	1.0	1.0	U	1.0	U	1.0	U	0.170	J
Magnesium	1000	1000	U	40.4	J	1000	U	1000	U
Molybdenum	10	10	U	10	U	10	U	10	U
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	0.0210	J	0.0870	J	0.0260	J	0.0210	J
Thallium	2.0	2.0	U	2.0	U	2.0	U	2.0	U
Tungsten	10	0.123	J	0.168	J	0.124	J	0.132	J
Vanadium	5.0	5.0	U	5.0	U	5.0	U	5.0	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.: 240-27038-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	CCB 240-94920/106 07/24/2013 20:56		CCB 240-94920/118 07/24/2013 21:43					
		Found	C	Found	C	Found	C	Found	C
Copper	2.0	2.0	U	2.0	U				
Antimony	2.0	2.0	U	2.0	U				
Arsenic	5.0	5.0	U	0.0890	J				
Barium	5.0	5.0	U	5.0	U				
Beryllium	1.0	1.0	U	0.125	J				
Cadmium	1.0	1.0	U	0.0670	J				
Calcium	1000	1000	U	1000	U				
Chromium	2.0	2.0	U	2.0	U				
Cobalt	1.0	0.0270	J	0.0690	J				
Lead	1.0	1.0	U	0.370	J				
Magnesium	1000	19.2	J	1000	U				
Molybdenum	10	10	U	10	U				
Nickel	2.0	2.0	U	2.0	U				
Selenium	5.0	5.0	U	5.0	U				
Silver	1.0	0.0310	J	0.0170	J				
Thallium	2.0	2.0	U	2.0	U				
Tungsten	10	0.106	J	0.144	J				
Vanadium	5.0	5.0	U	5.0	U				
Zinc	20	20	U	20	U				

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-27038-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 240-94750/8 07/23/2013 12:26 Found	C	CCB 240-94750/44 07/23/2013 14:55 Found	C	CCB 240-94750/56 07/23/2013 15:43 Found	C	CCB 240-94750/68 07/23/2013 16:30 Found	C
Antimony	2.0	0.242	J	0.114	J	2.0	U	2.0	U
Arsenic	5.0	5.0	U	5.0	U	0.0660	J	0.0820	J
Barium	5.0	5.0	U	5.0	U	5.0	U	5.0	U
Beryllium	1.0	1.0	U	0.142	J	0.127	J	0.0730	J
Cadmium	1.0	1.0	U	1.0	U	1.0	U	0.0320	J
Calcium	1000	1000	U	1000	U	1000	U	1000	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	0.0540	J
Copper	2.0	2.0	U	2.0	U	1.54	J	NC Sample detected 2.44	
Lead	1.0	1.0	U	0.142	J	1.0	U	1.0	U
Magnesium	1000	1000	U	1000	U	1000	U	30.4	J
Molybdenum	10	10	U	10	U	10	U	10	U
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	0.0160	J	0.0230	J	0.0130	J	0.0600	J
Thallium	2.0	2.0	U	2.0	U	2.0	U	2.0	U
Tungsten	10	0.145	J	0.137	J	0.108	J	0.153	J
Vanadium	5.0	5.0	U	5.0	U	5.0	U	0.212	J
Zinc	20	20	U	20	U	20	U	20	U

Italicized analytes were not requested for this sequence.

FORM III-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-27038-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	CCB 240-94750/80 07/23/2013 17:20		CCB 240-94750/92 07/23/2013 18:07		CCB 240-94750/104 07/23/2013 18:54		CCB 240-94750/116 07/23/2013 19:42	
		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	0.157	J	0.0630	J	0.118	J	0.0760	J
Cadmium	1.0	1.0	U	1.0	U	1.0	U	1.0	U
Calcium	1000	1000	U	1000	U	1000	U	1000	U
Chromium	2.0	2.0	U	2.0	U	2.0	U	2.0	U
Cobalt	1.0	1.0	U	0.0220	J	1.0	U	1.0	U
Copper	2.0	1.52	J	1.92	J	1.42	J	1.80	J
Lead	1.0	1.0	U	1.0	U	1.0	U	1.0	U
Magnesium	1000	1000	U	1000	U	1000	U	1000	U
Molybdenum	10	10	U	10	U	10	U	10	U
Nickel	2.0	2.0	U	2.0	U	2.0	U	2.0	U
Selenium	5.0	5.0	U	0.375	J	5.0	U	0.384	J
Silver	1.0	0.0130	J	0.0260	J	0.0130	J	0.0260	J
Thallium	2.0	2.0	U	2.0	U	2.0	U	2.0	U
Tungsten	10	0.106	J	0.111	J	0.0970	J	0.121	J
Vanadium	5.0	5.0	U	5.0	U	5.0	U	0.181	J
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.: 240-27038-1

SDG No.:

Concentration Units: ug/L

		CCB 240-94750/128 07/23/2013 20:30		CCB 240-94750/133 07/23/2013 20:49					
Analyte	RL	Found	C	Found	C	Found	C	Found	C
Antimony	2.0	2.0	U	2.0	U				
Arsenic	5.0	0.0730	J	5.0	U				
Barium	5.0	5.0	U	5.0	U				
Beryllium	1.0	0.0570	J	0.0530	J				
Cadmium	1.0	1.0	U	1.0	U				
Calcium	1000	1000	U	1000	U				
Chromium	2.0	2.0	U	2.0	U				
Cobalt	1.0	0.0410	J	1.0	U				
Copper	2.0	2.10		1.31	J				
Lead	1.0	1.0	U	1.0	U				
Magnesium	1000	25.2	J	1000	U				
Molybdenum	10	10	U	10	U				
Nickel	2.0	2.0	U	2.0	U				
Selenium	5.0	5.0	U	5.0	U				
Silver	1.0	0.0520	J	0.0210	J				
Thallium	2.0	2.0	U	2.0	U				
Tungsten	10	0.116	J	0.0930	J				
Vanadium	5.0	0.290	J	5.0	U				
Zinc	20	20	U	20	U				

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton   Job No.: 240-27038-1

SDG No.:

Concentration Units: ug/L   Lab Sample ID: MB 240-94371/1-A

Instrument Code: I10   Batch No.: 94750

CAS No.	Analyte	Concentration	C	Q	Method
7440-36-0	Antimony	2.0	U		6020
7440-38-2	Arsenic	0.133	J		6020
7440-39-3	Barium	5.0	U		6020
7440-41-7	Beryllium	0.154	J		6020
7440-43-9	Cadmium	1.0	U		6020
7440-47-3	Chromium	1.51	J		6020
7440-48-4	Cobalt	0.0290	J		6020
7440-50-8	Copper	0.254	J		6020
7439-92-1	Lead	0.148	J		6020
7439-98-7	Molybdenum	10	U		6020
7440-02-0	Nickel	0.757	J		6020
7782-49-2	Selenium	5.0	U		6020
7440-22-4	Silver	0.0240	J		6020
7440-28-0	Thallium	2.0	U		6020
7440-62-2	Vanadium	0.399	J		6020
7440-66-6	Zinc	3.17	J		6020
7440-70-2	Calcium	38.9	J		6020
7439-95-4	Magnesium	1000	U		6020
7440-33-7	Tungsten	10	U		6020

FORM III-IN

3-IN
METHOD BLANK
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton   Job No.: 240-27038-1

SDG No.:

Concentration Units: ug/L   Lab Sample ID: MB 240-94369/1-A

Instrument Code: I10   Batch No.: 94750

CAS No.	Analyte	Concentration	C	Q	Method
7440-36-0	Antimony	2.0	U		6020
7440-38-2	Arsenic	0.223	J		6020
7440-39-3	Barium	5.0	U		6020
7440-41-7	Beryllium	0.0550	J		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	3.01			6020
7439-92-1	Lead	1.0	U		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	0.875	J		6020
7440-66-6	Zinc	20	U		6020
7440-70-2	Calcium	70.8	J		6020
7439-95-4	Magnesium	1000	U		6020
7440-33-7	Tungsten	10	U		6020

FORM III-IN

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Canton Job No.: 240-27038-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 240-94370/1-A

Instrument Code: H1 Batch No.: 94621

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.20	U		7470A

FORM III-IN

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Canton Job No.: 240-27038-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 240-94372/1-A

Instrument Code: H1 Batch No.: 94621

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.20	U		7470A

FORM III-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-27038-1

SDG No.:

Lab Sample ID: ICSA 240-94750/10 Instrument ID: I10

Lab File ID: 010ICSA.d ICS Source: MTMSICSAW_00030

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Antimony		**0.166**	
Arsenic		**0.0780**	
Barium		**0.104**	
Beryllium		**0.0100**	
Cadmium		**0.0250**	
Calcium	**50000**	**50467**	**101**
Chromium		**0.563**	
Cobalt		**0.0180**	
Copper		**0.390**	
Lead		**0.0410**	
Magnesium	**50000**	**50237**	**100**
Molybdenum	**1000**	**1041**	**104**
Nickel		**0.411**	
Selenium		**0.215**	
Silver		**0.0230**	
Thallium		**0.0040**	
Tungsten		**0.123**	
Vanadium		**0.0690**	
Zinc		**2.18**	
Aluminum	*50000*	*47616*	*95*
Boron		*0.0450*	
Iron	*50000*	*50408*	*101*
Manganese		*0.0460*	
Potassium	*50000*	*49964*	*100*
Sodium	*50000*	*50027*	*100*
Strontium		*2.18*	
Tin		*0.107*	
Titanium	*1000*	*1000*	*100*

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.: 240-27038-1

SDG No.:

Lab Sample ID: ICSAB 240-94750/11 Instrument ID: I10

Lab File ID: 011ICAB.d ICS Source: MTMSICSABW_00029

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Antimony	**100**	**104**	**104**
Arsenic	**100**	**102**	**102**
Barium	**100**	**103**	**103**
Beryllium	**100**	**96.8**	**97**
Cadmium	**100**	**102**	**102**
Calcium	**50000**	**49472**	**99**
Chromium	**100**	**100**	**100**
Cobalt	**100**	**101**	**101**
Copper	**100**	**101**	**101**
Lead	**100**	**96.8**	**97**
Magnesium	**50000**	**49027**	**98**
Molybdenum	**1100**	**1142**	**104**
Nickel	**100**	**97.4**	**97**
Selenium	**100**	**103**	**103**
Silver	**100**	**99.2**	**99**
Thallium	**100**	**96.0**	**96**
Tungsten	**100**	**102**	**102**
Vanadium	**100**	**99.4**	**99**
Zinc	**100**	**103**	**103**
Aluminum	*50000*	*46669*	*93*
Boron	*100*	*102*	*102*
Iron	*50000*	*49577*	*99*
Manganese	*100*	*100*	*100*
Potassium	*50000*	*49349*	*99*
Sodium	*50000*	*49144*	*98*
Strontium	*100*	*101*	*101*
Tin	*100*	*103*	*103*
Titanium	*1100*	*1081*	*98*

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.: 240-27038-1

SDG No.:

Lab Sample ID: ICSA 240-94920/10 Instrument ID: I10

Lab File ID: 010ICSA.d ICS Source: MTMSICSAW_00030

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Copper		**0.150**	
Aluminum	*50000*	*47165*	*94*
Antimony		*0.200*	
Arsenic		*0.0760*	
Barium		*0.113*	
Beryllium		*0.0050*	
Boron		*0.336*	
Cadmium		*-0.0160*	
Calcium	*50000*	*49911*	*100*
Chromium		*0.571*	
Cobalt		*0.0160*	
Iron	*50000*	*50109*	*100*
Lead		*0.0470*	
Lithium		*0.0860*	
Magnesium	*50000*	*49879*	*100*
Manganese		*0.0710*	
Molybdenum	*1000*	*1043*	*104*
Nickel		*0.382*	
Potassium	*50000*	*49832*	*100*
Selenium		*0.0790*	
Silver		*0.0230*	
Sodium	*50000*	*50081*	*100*
Strontium		*2.17*	
Thallium		*0.0080*	
Tin		*0.161*	
Titanium	*1000*	*1008*	*101*
Tungsten		*0.147*	
Vanadium		*0.0380*	
Zinc		*1.99*	

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.: 240-27038-1

SDG No.:

Lab Sample ID: ICSAB 240-94920/11   Instrument ID: I10

Lab File ID: 011ICAB.d   ICS Source: MTMSICSAB+Li_00001

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Copper	**100**	**107**	**107**
Aluminum	*50000*	*49440*	*99*
Antimony	*100*	*110*	*110*
Arsenic	*100*	*109*	*109*
Barium	*100*	*110*	*110*
Beryllium	*100*	*109*	*109*
Boron	*100*	*106*	*106*
Cadmium	*100*	*109*	*109*
Calcium	*50000*	*52687*	*105*
Chromium	*100*	*107*	*107*
Cobalt	*100*	*108*	*108*
Iron	*50000*	*52762*	*106*
Lead	*100*	*106*	*106*
Lithium	*100*	*99.3*	*99*
Magnesium	*50000*	*52367*	*105*
Manganese	*100*	*108*	*108*
Molybdenum	*1100*	*1208*	*110*
Nickel	*100*	*103*	*103*
Potassium	*50000*	*52745*	*105*
Selenium	*100*	*110*	*110*
Silver	*100*	*107*	*107*
Sodium	*50000*	*52808*	*106*
Strontium	*100*	*107*	*107*
Thallium	*100*	*105*	*105*
Tin	*100*	*106*	*106*
Titanium	*1100*	*1173*	*107*
Tungsten	*100*	*107*	*107*
Vanadium	*100*	*107*	*107*
Zinc	*100*	*107*	*107*

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: MSA-SW37A-071813 MS   Lab ID: 240-27038-1 MS

Lab Name: TestAmerica Canton   Job No.: 240-27038-1

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		0.42	J	100	104	44-153		6020
Arsenic	1010		2.4	J	1000	100	82-123		6020
Barium	1070		23		1000	104	45-144		6020
Beryllium	942		0.30	J	1000	94	77-124		6020
Cadmium	995		0.14	J	1000	99	78-117		6020
Chromium	965		0.38	J	1000	96	72-110		6020
Cobalt	964		0.24	J	1000	96	67-114		6020
Copper	959		6.4		1000	95	60-123		6020
Lead	1030		0.47	J	1000	103	73-115		6020
Molybdenum	104		1.7	J	100	102	80-110		6020
Nickel	909		1.5	J	1000	91	72-111		6020
Selenium	986		1.2	J	1000	98	72-148		6020
Silver	95.4		0.015	J	100	95	10-139		6020
Thallium	256		2.0	U	250	102	69-117		6020
Vanadium	979		3.0	J	1000	98	70-112		6020
Zinc	903		3.0	J	1000	90	49-156		6020
Calcium	47700		39000		10000	84	70-130		6020
Magnesium	78400		70000		10000	87	70-130	4	6020
Tungsten	99.6		0.26	J	100	99	43-133		6020
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 DUPLICATE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: MSA-SW37A-071813 MSD   Lab ID: 240-27038-1 MSD

Lab Name: TestAmerica Canton   Job No.: 240-27038-1

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	103		100	102	44-153	2	20		6020
Arsenic	986		1000	98	82-123	2	20		6020
Barium	1050		1000	102	45-144	2	20		6020
Beryllium	939		1000	94	77-124	0	20		6020
Cadmium	983		1000	98	78-117	1	20		6020
Chromium	952		1000	95	72-110	1	20		6020
Cobalt	955		1000	95	67-114	1	20		6020
Copper	948		1000	94	60-123	1	20		6020
Lead	1030		1000	103	73-115	0	20		6020
Molybdenum	103		100	101	80-110	1	20		6020
Nickel	901		1000	90	72-111	1	20		6020
Selenium	968		1000	97	72-148	2	20		6020
Silver	95.1		100	95	10-139	0	20		6020
Thallium	256		250	102	69-117	0	20		6020
Vanadium	972		1000	97	70-112	1	20		6020
Zinc	890		1000	89	49-156	1	20		6020
Calcium	47800		10000	85	70-130	0	20		6020
Magnesium	77700		10000	81	70-130	1	20	4	6020
Tungsten	99.1		100	99	43-133	1	20		6020
Mercury	1.09		1.00	109	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

MATRIX SPIKE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: MSA-SW42A-071813 MS   Lab ID: 240-27038-21 MS

Lab Name: TestAmerica Canton   Job No.: 240-27038-1

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		0.51	J	100	104	44-153		6020
Arsenic	1020		2.4	J	1000	102	82-123		6020
Barium	1060		23		1000	103	45-144		6020
Beryllium	944		0.41	J	1000	94	77-124		6020
Cadmium	1010		0.12	J	1000	101	78-117		6020
Chromium	992		1.7	J	1000	99	72-110		6020
Cobalt	983		0.24	J	1000	98	67-114		6020
Copper	979		5.2		1000	97	60-123		6020
Lead	1030		0.72	J	1000	102	73-115		6020
Molybdenum	105		1.7	J	100	103	80-110		6020
Nickel	925		2.2		1000	92	72-111		6020
Selenium	1000		1.1	J	1000	100	72-148		6020
Silver	96.3		0.043	J	100	96	10-139		6020
Thallium	255		2.0	U	250	102	69-117		6020
Vanadium	991		2.6	J	1000	99	70-112		6020
Zinc	931		7.0	J	1000	92	49-156		6020
Calcium	48700		38000		10000	108	70-130		6020
Magnesium	80300		68000		10000	120	70-130	4	6020
Tungsten	100		0.27	J	100	100	43-133		6020
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.

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: MSA-SW42A-071813 MSD Lab ID: 240-27038-21 MSD

Lab Name: TestAmerica Canton Job No.: 240-27038-1

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	103		100	103	44-153	1	20		6020
Arsenic	1010		1000	101	82-123	1	20		6020
Barium	1040		1000	102	45-144	1	20		6020
Beryllium	952		1000	95	77-124	1	20		6020
Cadmium	994		1000	99	78-117	1	20		6020
Chromium	981		1000	98	72-110	1	20		6020
Cobalt	976		1000	98	67-114	1	20		6020
Copper	969		1000	96	60-123	1	20		6020
Lead	1020		1000	102	73-115	0	20		6020
Molybdenum	104		100	102	80-110	1	20		6020
Nickel	928		1000	93	72-111	0	20		6020
Selenium	988		1000	99	72-148	2	20		6020
Silver	95.5		100	95	10-139	1	20		6020
Thallium	255		250	102	69-117	0	20		6020
Vanadium	990		1000	99	70-112	0	20		6020
Zinc	925		1000	92	49-156	1	20		6020
Calcium	48500		10000	105	70-130	1	20		6020
Magnesium	80200		10000	118	70-130	0	20	4	6020
Tungsten	100		100	100	43-133	0	20		6020
Mercury	1.08		1.00	108	69-134	3	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 240-94371/2-A

Lab Name: TestAmerica Canton   Job No.: 240-27038-1

Sample Matrix: Water   LCS Source: MTICPMSB_00013

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Antimony	100	100		100	80	120		6020
Arsenic	1000	964		96	80	120		6020
Barium	1000	997		100	80	120		6020
Beryllium	1000	934		93	80	120		6020
Cadmium	1000	1020		102	80	120		6020
Chromium	1000	1000		100	80	120		6020
Cobalt	1000	1020		102	80	120		6020
Copper	1000	964		96	80	120		6020
Lead	1000	927		93	80	120		6020
Molybdenum	100	95.8		96	80	120		6020
Nickel	1000	996		100	80	120		6020
Selenium	1000	979		98	80	120		6020
Silver	100	97.6		98	80	120		6020
Thallium	250	230		92	80	120		6020
Vanadium	1000	975		98	80	120		6020
Zinc	1000	1020		102	80	120		6020
Calcium	10000	8900		89	80	120		6020
Magnesium	10000	10100		101	80	120		6020
Tungsten	100	98.4		98	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 240-94369/2-A

Lab Name: TestAmerica Canton Job No.: 240-27038-1

Sample Matrix: Water LCS Source: MTICPMSB_00013

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Antimony	100	102		102	80	120		6020
Arsenic	1000	961		96	80	120		6020
Barium	1000	1020		102	80	120		6020
Beryllium	1000	943		94	80	120		6020
Cadmium	1000	1040		104	80	120		6020
Chromium	1000	1000		100	80	120		6020
Cobalt	1000	1030		103	80	120		6020
Copper	1000	960		96	80	120		6020
Lead	1000	969		97	80	120		6020
Molybdenum	100	95.8		96	80	120		6020
Nickel	1000	989		99	80	120		6020
Selenium	1000	976		98	80	120		6020
Silver	100	97.9		98	80	120		6020
Thallium	250	239		96	80	120		6020
Vanadium	1000	986		99	80	120		6020
Zinc	1000	1010		101	80	120		6020
Calcium	10000	8660		87	80	120		6020
Magnesium	10000	9890		99	80	120		6020
Tungsten	100	101		101	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 240-94370/2-A

Lab Name: TestAmerica Canton   Job No.: 240-27038-1

Sample Matrix: Water   LCS Source: MTHGCALW_00424

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	5.00	4.89		98	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 240-94372/2-A

Lab Name: TestAmerica Canton   Job No.: 240-27038-1

Sample Matrix: Water   LCS Source: MTHGCALW_00424

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	5.00	4.92		98	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 - DISSOLVED

Lab ID: 240-27038-1

SDG No:

Lab Name: TestAmerica Canton

Job No: 240-27038-1

Matrix: Water

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Antimony	0.42	J	10	U	NC		6020
Arsenic	2.4	J	2.28	J	NC		6020
Barium	23		23.5	J	2.15 NC		6020
Beryllium	0.30	J	0.485	J	NC		6020
Cadmium	0.14	J	5.0	U	NC		6020
Chromium	0.38	J	10	U	NC		6020
Cobalt	0.24	J	0.145	J	NC		6020
Copper	6.4		10.3		NC		6020
Lead	0.47	J	5.0	U	NC		6020
Molybdenum	1.7	J	50	U	NC		6020
Nickel	1.5	J	1.32	J	NC		6020
Selenium	1.2	J	1.94	J	NC		6020
Silver	0.015	J	5.0	U	NC		6020
Thallium	2.0	U	10	U	NC		6020
Vanadium	3.0	J	3.33	J	NC		6020
Zinc	3.0	J	22.9	J	NC		6020
Calcium	39000		39000		NC		6020
Magnesium	70000		69900		NC		6020
Tungsten	0.26	J	0.135	J	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 - DISSOLVED

Lab ID: 240-27038-21

SDG No:

Lab Name: TestAmerica Canton   Job No: 240-27038-1

Matrix: Water   Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Antimony	0.51	J	10	U	NC		6020
Arsenic	2.4	J	2.71	J	NC		6020
Barium	23		23.2	J	0.866 NC		6020
Beryllium	0.41	J	1.11	J	NC		6020
Cadmium	0.12	J	5.0	U	NC		6020
Chromium	1.7	J	1.66	J	NC		6020
Cobalt	0.24	J	0.230	J	NC		6020
Copper	5.2		6.76	J	NC		6020
Lead	0.72	J	5.0	U	NC		6020
Molybdenum	1.7	J	50	U	NC		6020
Nickel	2.2		2.20	J	NC		6020
Selenium	1.1	J	2.22	J	NC		6020
Silver	0.043	J	5.0	U	NC		6020
Thallium	2.0	U	10	U	NC		6020
Vanadium	2.6	J	5.11	J	NC		6020
Zinc	7.0	J	23.8	J	NC		6020
Calcium	38000		38500		NC		6020
Magnesium	68000		69800		NC		6020
Tungsten	0.27	J	0.140	J	NC		6020

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Canton Job No.: 240-27038-1

SDG No.:

ICP-MS Instrument ID: I10 Start Date: 07/23/2013 End Date: 07/23/2013

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc/1	Q	Element Sc/2	Q	Element Rh	Q	Element In	Q
STD1 240-94750/3 IC	12:05	100		101		100		99		100	
STD2 240-94750/4 IC	12:09	89		98		89		96		97	
STD3 240-94750/5 IC	12:13	96		99		98		95		96	
STD4 240-94750/6 IC	12:18	100		100		100		102		101	
ICV 240-94750/7	12:22	98		105		104		97		97	
ICB 240-94750/8	12:26	101		100		100		101		100	
CRI 240-94750/9	12:30	100		100		100		101		101	
ICSA 240-94750/10	12:34	94		98		100		94		96	
ICSAB 240-94750/11	12:38	98		99		101		94		94	
CCV 240-94750/43	14:51	108		102		105		100		99	
CCB 240-94750/44	14:55	111		98		106		99		97	
MB 240-94371/1-A	14:59	108		98		104		101		97	
LCS 240-94371/2-A	15:03	101		96		101		98		92	
240-27038-21	15:07	106		96		104		89		89	
240-27038-21 SD	15:11	115		106		110		100		100	
240-27038-21 MS	15:15	99		94		100		89		86	
240-27038-21 MSD	15:19	97		94		101		89		87	
240-27038-22	15:23	106		100		107		92		91	
240-27038-23	15:27	109		96		108		88		88	
240-27038-24	15:31	108		100		108		92		92	
240-27038-25	15:35	107		101		107		92		92	
CCV 240-94750/55	15:39	107		104		106		103		100	
CCB 240-94750/56	15:43	108		100		106		102		99	
240-27038-26	15:46	106		98		107		91		91	
240-27038-27	15:51	108		100		108		92		92	
240-27038-28	15:55	107		100		107		92		91	
240-27038-29	15:59	108		99		107		91		90	
240-27038-30	16:03	109		99		108		92		91	
240-27038-31	16:07	107		99		108		91		91	
240-27038-32	16:11	107		97		108		88		89	
240-27038-33	16:15	107		99		107		91		90	
240-27038-34	16:19	107		99		107		91		90	
240-27038-35	16:23	107		100		108		91		90	
CCV 240-94750/67	16:27	106		97		105		95		94	
CCB 240-94750/68	16:30	107		101		104		103		100	
240-27038-36	16:34	106		98		106		90		89	
CCV 240-94750/79	17:16	105		101		105		98		96	
CCB 240-94750/80	17:20	105		101		102		103		99	
CCV 240-94750/91	18:03	101		99		104		98		95	
CCB 240-94750/92	18:07	102		99		104		101		98	
MB 240-94369/1-A	18:39	97		96		105		100		95	
LCS 240-94369/2-A	18:43	91		92		100		95		89	

FORM XV - IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Canton Job No.: 240-27038-1

SDG No.:

ICP-MS Instrument ID: I10 Start Date: 07/23/2013 End Date: 07/23/2013

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Tb	Q	Element Ho	Q	Element Bi	Q	Element	Q	Element	Q
STD1 240-94750/3 IC	12:05	100		101		100					
STD2 240-94750/4 IC	12:09	99		100		96					
STD3 240-94750/5 IC	12:13	99		99		94					
STD4 240-94750/6 IC	12:18	102		101		103					
ICV 240-94750/7	12:22	100		100		98					
ICB 240-94750/8	12:26	100		100		100					
CRI 240-94750/9	12:30	101		101		102					
ICSA 240-94750/10	12:34	99		100		97					
ICSAB 240-94750/11	12:38	98		100		98					
CCV 240-94750/43	14:51	101		102		99					
CCB 240-94750/44	14:55	97		97		96					
MB 240-94371/1-A	14:59	100		101		111					
LCS 240-94371/2-A	15:03	100		100		102					
240-27038-21	15:07	94		95		89					
240-27038-21 SD	15:11	101		102		97					
240-27038-21 MS	15:15	95		96		85					
240-27038-21 MSD	15:19	95		96		84					
240-27038-22	15:23	95		97		87					
240-27038-23	15:27	93		93		84					
240-27038-24	15:31	96		97		87					
240-27038-25	15:35	97		97		87					
CCV 240-94750/55	15:39	104		105		102					
CCB 240-94750/56	15:43	100		101		100					
240-27038-26	15:46	95		96		88					
240-27038-27	15:51	96		98		87					
240-27038-28	15:55	96		97		86					
240-27038-29	15:59	95		96		86					
240-27038-30	16:03	95		97		86					
240-27038-31	16:07	95		96		86					
240-27038-32	16:11	93		94		85					
240-27038-33	16:15	95		97		86					
240-27038-34	16:19	95		96		86					
240-27038-35	16:23	95		96		86					
CCV 240-94750/67	16:27	98		98		94					
CCB 240-94750/68	16:30	101		102		100					
240-27038-36	16:34	94		94		86					
CCV 240-94750/79	17:16	101		102		97					
CCB 240-94750/80	17:20	101		103		103					
CCV 240-94750/91	18:03	101		102		97					
CCB 240-94750/92	18:07	100		102		100					
MB 240-94369/1-A	18:39	100		101		103					
LCS 240-94369/2-A	18:43	98		99		98					

FORM XV - IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Canton Job No.: 240-27038-1

SDG No.:

ICP-MS Instrument ID: I10 Start Date: 07/23/2013 End Date: 07/23/2013

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc/1	Q	Element Sc/2	Q	Element Rh	Q	Element In	Q
240-27038-1	18:46	96		91		102		88		86	
CCV 240-94750/103	18:50	99		97		103		97		95	
CCB 240-94750/104	18:54	100		98		103		100		98	
240-27038-1 SD	18:58	100		98		104		95		95	
240-27038-1 MS	19:02	91		92		99		87		83	
240-27038-1 MSD	19:06	90		92		100		87		85	
240-27038-2	19:10	95		96		104		89		88	
240-27038-3	19:14	96		93		100		87		87	
240-27038-4	19:18	99		96		105		89		89	
240-27038-5	19:22	99		97		105		88		89	
240-27038-6	19:26	99		96		105		89		88	
240-27038-7	19:30	99		95		105		89		89	
240-27038-8	19:34	111		96		119		88		87	
CCV 240-94750/115	19:38	101		100		106		98		97	
CCB 240-94750/116	19:42	104		102		108		101		99	
240-27038-9	19:46	101		98		106		89		89	
240-27038-10	19:50	102		96		107		88		89	
240-27038-11	19:54	101		98		106		89		89	
240-27038-12	19:58	100		96		107		89		89	
240-27038-13	20:02	101		97		109		89		89	
240-27038-14	20:06	99		91		106		83		83	
240-27038-15	20:10	100		98		106		89		89	
240-27038-16	20:14	100		97		107		90		89	
240-27038-17	20:18	100		96		107		87		87	
240-27038-18	20:22	100		96		106		89		88	
CCV 240-94750/127	20:26	102		100		108		97		96	
CCB 240-94750/128	20:30	104		105		108		106		103	
240-27038-19	20:34	102		93		108		86		86	
240-27038-20	20:38	101		99		108		89		89	
CCV 240-94750/132	20:46	93		97		103		95		95	
CCB 240-94750/133	20:49	95		98		103		99		97	

FORM XV - IN

15-IN

ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

METALS

Lab Name: TestAmerica Canton Job No.: 240-27038-1

SDG No.:

ICP-MS Instrument ID: I10 Start Date: 07/23/2013 End Date: 07/23/2013

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Tb	Q	Element Ho	Q	Element Bi	Q	Element	Q	Element	Q
240-27038-1	18:46	93		95		85					
CCV 240-94750/103	18:50	100		102		98					
CCB 240-94750/104	18:54	100		100		99					
240-27038-1 SD	18:58	99		99		97					
240-27038-1 MS	19:02	93		94		83					
240-27038-1 MSD	19:06	94		95		83					
240-27038-2	19:10	94		96		86					
240-27038-3	19:14	92		94		83					
240-27038-4	19:18	95		96		85					
240-27038-5	19:22	94		96		85					
240-27038-6	19:26	94		95		85					
240-27038-7	19:30	93		95		84					
240-27038-8	19:34	93		94		84					
CCV 240-94750/115	19:38	100		102		98					
CCB 240-94750/116	19:42	100		101		100					
240-27038-9	19:46	94		95		86					
240-27038-10	19:50	93		95		85					
240-27038-11	19:54	94		96		84					
240-27038-12	19:58	93		95		85					
240-27038-13	20:02	94		96		85					
240-27038-14	20:06	88		89		79					
240-27038-15	20:10	94		95		84					
240-27038-16	20:14	94		96		84					
240-27038-17	20:18	92		93		82					
240-27038-18	20:22	94		95		84					
CCV 240-94750/127	20:26	100		101		97					
CCB 240-94750/128	20:30	105		106		105					
240-27038-19	20:34	90		91		83					
240-27038-20	20:38	94		95		84					
CCV 240-94750/132	20:46	99		100		95					
CCB 240-94750/133	20:49	98		100		99					

FORM XV - IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Canton   Job No.: 240-27038-1

SDG No.:

ICP-MS Instrument ID: I10   Start Date: 07/24/2013 End Date: 07/24/2013

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc/1	Q	Element Sc/2	Q	Element Rh	Q	Element In	Q
STD4 240-94920/6 IC	14:20	93		103		101		102		103	
ICV 240-94920/7	14:24	94		106		102		98		100	
ICB 240-94920/8	14:28	96		101		98		102		102	
CRI 240-94920/9	14:32	98		101		98		102		103	
ICSA 240-94920/10	14:35	93		98		97		93		95	
ICSAB 240-94920/11	14:39	88		96		100		90		92	
CCV 240-94920/69	18:29	92		98		97		98		98	
CCB 240-94920/70	18:33	96		98		97		100		100	
240-27038-9	19:00	91		93		92		84		88	
240-27038-10	19:04	93		95		94		86		90	
240-27038-11	19:08	90		96		92		87		92	
240-27038-12	19:12	87		90		90		83		87	
CCV 240-94920/81	19:16	85		99		92		95		98	
CCB 240-94920/82	19:20	90		99		92		101		102	
240-27038-13	19:24	89		94		90		84		88	
240-27038-14	19:28	89		93		91		84		87	
240-27038-15	19:32	80		95		78		85		88	
240-27038-16	19:36	88		91		89		82		86	
240-27038-17	19:40	88		86		90		78		81	
240-27038-18	19:44	88		91		89		82		85	
240-27038-19	19:48	89		91		90		83		87	
240-27038-20	19:52	90		93		91		84		87	
CCV 240-94920/93	20:04	95		104		99		99		101	
CCB 240-94920/94	20:08	92		101		93		100		102	
240-27038-26	20:24	92		95		95		87		90	
240-27038-27	20:28	101		97		100		99		97	
240-27038-28	20:32	93		96		95		86		90	
240-27038-29	20:36	93		96		94		86		89	
240-27038-30	20:40	93		95		95		85		88	
240-27038-31	20:44	93		95		94		85		89	
240-27038-32	20:48	94		97		95		87		90	
CCV 240-94920/105	20:52	98		106		101		99		102	
CCB 240-94920/106	20:56	99		104		98		101		104	
240-27038-33	21:00	89		98		84		86		90	
240-27038-34	21:04	96		96		99		85		89	
240-27038-35	21:08	97		98		99		86		91	
240-27038-36	21:12	96		99		97		86		91	
CCV 240-94920/117	21:39	94		101		100		98		99	
CCB 240-94920/118	21:43	97		104		99		102		104	

FORM XV - IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Canton   Job No.: 240-27038-1

SDG No.:

ICP-MS Instrument ID: I10   Start Date: 07/24/2013 End Date: 07/24/2013

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Tb	Q	Element Ho	Q	Element Bi	Q	Element	Q	Element	Q
STD4 240-94920/6 IC	14:20	103		104		104					
ICV 240-94920/7	14:24	101		102		100					
ICB 240-94920/8	14:28	103		103		102					
CRI 240-94920/9	14:32	102		102		103					
ICSA 240-94920/10	14:35	100		100		98					
ICSAB 240-94920/11	14:39	96		96		94					
CCV 240-94920/69	18:29	104		104		102					
CCB 240-94920/70	18:33	102		102		102					
240-27038-9	19:00	93		93		92					
240-27038-10	19:04	94		94		89					
240-27038-11	19:08	96		97		91					
240-27038-12	19:12	92		92		84					
CCV 240-94920/81	19:16	101		101		98					
CCB 240-94920/82	19:20	103		103		103					
240-27038-13	19:24	93		93		89					
240-27038-14	19:28	93		93		85					
240-27038-15	19:32	94		94		87					
240-27038-16	19:36	91		91		84					
240-27038-17	19:40	86		87		80					
240-27038-18	19:44	90		91		83					
240-27038-19	19:48	92		92		84					
240-27038-20	19:52	92		92		84					
CCV 240-94920/93	20:04	104		103		100					
CCB 240-94920/94	20:08	102		102		102					
240-27038-26	20:24	96		96		88					
240-27038-27	20:28	100		100		103					
240-27038-28	20:32	96		96		87					
240-27038-29	20:36	94		95		86					
240-27038-30	20:40	94		94		85					
240-27038-31	20:44	93		93		84					
240-27038-32	20:48	95		95		86					
CCV 240-94920/105	20:52	104		104		100					
CCB 240-94920/106	20:56	103		103		102					
240-27038-33	21:00	94		94		87					
240-27038-34	21:04	92		93		83					
240-27038-35	21:08	94		95		86					
240-27038-36	21:12	95		95		86					
CCV 240-94920/117	21:39	103		103		100					
CCB 240-94920/118	21:43	104		104		105					

FORM XV - IN

9-IN
DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Canton   Job Number: 240-27038-1

SDG Number:

Matrix: Water   Instrument ID: I10

Method: 6020   MDL Date: 04/12/2013 14:40

Prep Method: 3005A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Antimony	121.00	2	0.11
Arsenic	75.00	5	0.063
Barium	137.00	5	0.32
Beryllium	9.00	1	0.031
Cadmium	111.00	1	0.026
Chromium	52.00	2	0.13
Cobalt	59.00	1	0.02
Copper	65.00	2	0.24
Lead	208.00	1	0.14
Molybdenum	95.00	10	0.81
Nickel	60.00	2	0.088
Selenium	78.00	5	0.34
Silver	107.00	1	0.0083
Thallium	205.00	2	0.4
Tungsten	182.00	10	0.017
Vanadium	51.00	5	0.15
Zinc	66.00	20	2.08

9-IN
DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Canton Job Number: 240-27038-1

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
DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Canton   Job Number: 240-27038-1

SDG Number:

Matrix: Water   Instrument ID: NOEQUIP

Method: SM 2340B   RL Date: 04/14/2011 14:06

Analyte	Wavelength/ Mass	RL (mg/L)	
Calcium hardness as calcium carbonate		12	
Hardness as calcium carbonate		33	
Magnesium hardness as calcium carbonate		21	

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Canton Job No: 240-27038-1

SDG No.:

Instrument ID: I10 Date: 04/01/2013 10:55

Analyte	Integ. Time (Sec.)	Concentration (ppb)	Method
Antimony		300	6020
Arsenic		10000	6020
Barium		10000	6020
Beryllium		10000	6020
Cadmium		4000	6020
Chromium		10000	6020
Cobalt		10000	6020
Copper		10000	6020
Lead		4000	6020
Molybdenum		2000	6020
Nickel		10000	6020
Selenium		10000	6020
Silver		300	6020
Thallium		5000	6020
Vanadium		10000	6020
Zinc		10000	6020
Tungsten		10000	6020

FORM XI - IN

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Canton Job No: 240-27038-1

SDG No.:

Instrument ID: H1 Date: 04/01/2011 10:45

Analyte	Integ. Time (Sec.)	Concentration (ppb)	Method
Mercury		50	7470A

FORM XI - IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-27038-1

SDG No.:

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-94369/1-A	07/22/2013 07:07	94369		50	50
LCS 240-94369/2-A	07/22/2013 07:07	94369		50	50
240-27038-1	07/22/2013 07:07	94369		50	50
240-27038-1 MS	07/22/2013 07:07	94369		50	50
240-27038-1 MSD	07/22/2013 07:07	94369		50	50
240-27038-2	07/22/2013 07:07	94369		50	50
240-27038-3	07/22/2013 07:07	94369		50	50
240-27038-4	07/22/2013 07:07	94369		50	50
240-27038-5	07/22/2013 07:07	94369		50	50
240-27038-6	07/22/2013 07:07	94369		50	50
240-27038-7	07/22/2013 07:07	94369		50	50
240-27038-8	07/22/2013 07:07	94369		50	50
240-27038-9	07/22/2013 07:07	94369		50	50
240-27038-10	07/22/2013 07:07	94369		50	50
240-27038-11	07/22/2013 07:07	94369		50	50
240-27038-12	07/22/2013 07:07	94369		50	50
240-27038-13	07/22/2013 07:07	94369		50	50
240-27038-14	07/22/2013 07:07	94369		50	50
240-27038-15	07/22/2013 07:07	94369		50	50
240-27038-16	07/22/2013 07:07	94369		50	50
240-27038-17	07/22/2013 07:07	94369		50	50
240-27038-18	07/22/2013 07:07	94369		50	50
240-27038-19	07/22/2013 07:07	94369		50	50
240-27038-20	07/22/2013 07:07	94369		50	50

FORM XII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-27038-1

SDG No.:

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-94371/1-A	07/22/2013 07:18	94371		50	50
LCS 240-94371/2-A	07/22/2013 07:18	94371		50	50
240-27038-21	07/22/2013 07:18	94371		50	50
240-27038-21 MS	07/22/2013 07:18	94371		50	50
240-27038-21 MSD	07/22/2013 07:18	94371		50	50
240-27038-22	07/22/2013 07:18	94371		50	50
240-27038-23	07/22/2013 07:18	94371		50	50
240-27038-24	07/22/2013 07:18	94371		50	50
240-27038-25	07/22/2013 07:18	94371		50	50
240-27038-26	07/22/2013 07:18	94371		50	50
240-27038-27	07/22/2013 07:18	94371		50	50
240-27038-28	07/22/2013 07:18	94371		50	50
240-27038-29	07/22/2013 07:18	94371		50	50
240-27038-30	07/22/2013 07:18	94371		50	50
240-27038-31	07/22/2013 07:18	94371		50	50
240-27038-32	07/22/2013 07:18	94371		50	50
240-27038-33	07/22/2013 07:18	94371		50	50
240-27038-34	07/22/2013 07:18	94371		50	50
240-27038-35	07/22/2013 07:18	94371		50	50
240-27038-36	07/22/2013 07:18	94371		50	50

FORM XII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-27038-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-94370/1-A	07/22/2013 11:25	94370		50	50
LCS 240-94370/2-A	07/22/2013 11:25	94370		50	50
240-27038-1	07/22/2013 11:25	94370		50	50
240-27038-1 MS	07/22/2013 11:25	94370		50	50
240-27038-1 MSD	07/22/2013 11:25	94370		50	50
240-27038-2	07/22/2013 11:25	94370		50	50
240-27038-3	07/22/2013 11:25	94370		50	50
240-27038-4	07/22/2013 11:25	94370		50	50
240-27038-5	07/22/2013 11:25	94370		50	50
240-27038-6	07/22/2013 11:25	94370		50	50
240-27038-7	07/22/2013 11:25	94370		50	50
240-27038-8	07/22/2013 11:25	94370		50	50
240-27038-9	07/22/2013 11:25	94370		50	50
240-27038-10	07/22/2013 11:25	94370		50	50
240-27038-11	07/22/2013 11:25	94370		50	50
240-27038-12	07/22/2013 11:25	94370		50	50
240-27038-13	07/22/2013 11:25	94370		50	50
240-27038-14	07/22/2013 11:25	94370		50	50
240-27038-15	07/22/2013 11:25	94370		50	50
240-27038-16	07/22/2013 11:25	94370		50	50
240-27038-17	07/22/2013 11:25	94370		50	50
240-27038-18	07/22/2013 11:25	94370		50	50
240-27038-19	07/22/2013 11:25	94370		50	50
240-27038-20	07/22/2013 11:25	94370		50	50

FORM XII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton   Job No.: 240-27038-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-94372/1-A	07/22/2013 11:25	94372		50	50
LCS 240-94372/2-A	07/22/2013 11:25	94372		50	50
240-27038-21	07/22/2013 11:25	94372		50	50
240-27038-21 MS	07/22/2013 11:25	94372		50	50
240-27038-21 MSD	07/22/2013 11:25	94372		50	50
240-27038-22	07/22/2013 11:25	94372		50	50
240-27038-23	07/22/2013 11:25	94372		50	50
240-27038-24	07/22/2013 11:25	94372		50	50
240-27038-25	07/22/2013 11:25	94372		50	50
240-27038-26	07/22/2013 11:25	94372		50	50
240-27038-27	07/22/2013 11:25	94372		50	50
240-27038-28	07/22/2013 11:25	94372		50	50
240-27038-29	07/22/2013 11:25	94372		50	50
240-27038-30	07/22/2013 11:25	94372		50	50
240-27038-31	07/22/2013 11:25	94372		50	50
240-27038-32	07/22/2013 11:25	94372		50	50
240-27038-33	07/22/2013 11:25	94372		50	50
240-27038-34	07/22/2013 11:25	94372		50	50
240-27038-35	07/22/2013 11:25	94372		50	50
240-27038-36	07/22/2013 11:25	94372		50	50

FORM XII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton   Job No.: 240-27038-1

SDG No.:

Instrument ID: I10   Method: 6020

Start Date: 07/24/2013 13:58   End Date: 07/25/2013 00:26

Lab Sample ID	D/F	Type	Time	Analytes: Cu
ZZZZZZ			13:58	
ICIS 240-94920/2			14:03	X
STD1 240-94920/3 IC			14:07	X
STD2 240-94920/4 IC			14:11	X
STD3 240-94920/5 IC			14:15	X
STD4 240-94920/6 IC	1		14:20	X
ICV 240-94920/7	1		14:24	X
ICB 240-94920/8	1		14:28	X
CRI 240-94920/9	1		14:32	X
ICSA 240-94920/10	1		14:35	X
ICSAB 240-94920/11	1		14:39	X
CCV 240-94920/12			14:43	
CCB 240-94920/13			14:47	
ZZZZZZ			14:53	
ZZZZZZ			14:57	
ZZZZZZ			15:01	
ZZZZZZ			15:05	
ZZZZZZ			15:09	
ZZZZZZ			15:13	
ZZZZZZ			15:17	
ZZZZZZ			15:21	
ZZZZZZ			15:25	
ZZZZZZ			15:29	
CCV 240-94920/24			15:33	
CCB 240-94920/25			15:36	
ZZZZZZ			15:40	
ZZZZZZ			15:44	
ZZZZZZ			15:48	
ZZZZZZ			15:52	
ZZZZZZ			15:56	
ZZZZZZ			16:00	
ZZZZZZ			16:04	
ZZZZZZ			16:08	
ZZZZZZ			16:12	
ZZZZZZ			16:16	
CCV 240-94920/36			16:20	
CCB 240-94920/37			16:23	
ZZZZZZ			16:27	
ZZZZZZ			16:31	
ZZZZZZ			16:35	
ZZZZZZ			16:39	
ZZZZZZ			16:43	

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-27038-1

SDG No.:

Instrument ID: I10 Method: 6020

Start Date: 07/24/2013 13:58 End Date: 07/25/2013 00:26

Lab Sample ID	D/F	Type	Time	Analytes: Cu
ZZZZZZ			16:47	
ZZZZZZ			16:51	
ZZZZZZ			16:55	
ZZZZZZ			16:59	
ZZZZZZ			17:03	
CCV 240-94920/48			17:07	
CCB 240-94920/49			17:11	
ZZZZZZ			17:14	
ZZZZZZ			17:18	
ZZZZZZ			17:22	
ZZZZZZ			17:26	
ZZZZZZ			17:30	
ZZZZZZ			17:34	
ZZZZZZ			17:38	
ZZZZZZ			17:42	
ZZZZZZ			17:46	
ZZZZZZ			17:50	
CCV 240-94920/60			17:54	
CCB 240-94920/61			17:58	
ZZZZZZ			18:01	
ZZZZZZ			18:05	
ZZZZZZ			18:09	
ZZZZZZ			18:13	
ZZZZZZ			18:17	
ZZZZZZ			18:21	
ZZZZZZ			18:25	
CCV 240-94920/69	1		18:29	X
CCB 240-94920/70	1		18:33	X
ZZZZZZ			18:37	
ZZZZZZ			18:41	
ZZZZZZ			18:45	
ZZZZZZ			18:49	
ZZZZZZ			18:53	
ZZZZZZ			18:56	
240-27038-9	1	D	19:00	X
240-27038-10	1	D	19:04	X
240-27038-11	1	D	19:08	X
240-27038-12	1	D	19:12	X
CCV 240-94920/81	1		19:16	X
CCB 240-94920/82	1		19:20	X
240-27038-13	1	D	19:24	X
240-27038-14	1	D	19:28	X

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-27038-1

SDG No.:

Instrument ID: I10 Method: 6020

Start Date: 07/24/2013 13:58 End Date: 07/25/2013 00:26

Lab Sample ID	D/F	Type	Time	Analytes: Cu
240-27038-15	1	D	19:32	X
240-27038-16	1	D	19:36	X
240-27038-17	1	D	19:40	X
240-27038-18	1	D	19:44	X
240-27038-19	1	D	19:48	X
240-27038-20	1	D	19:52	X
ZZZZZZ			19:56	
ZZZZZZ			20:00	
CCV 240-94920/93	1		20:04	X
CCB 240-94920/94	1		20:08	X
ZZZZZZ			20:12	
ZZZZZZ			20:16	
ZZZZZZ			20:20	
240-27038-26	1	D	20:24	X
240-27038-27	1	D	20:28	X
240-27038-28	1	D	20:32	X
240-27038-29	1	D	20:36	X
240-27038-30	1	D	20:40	X
240-27038-31	1	D	20:44	X
240-27038-32	1	D	20:48	X
CCV 240-94920/105	1		20:52	X
CCB 240-94920/106	1		20:56	X
240-27038-33	1	D	21:00	X
240-27038-34	1	D	21:04	X
240-27038-35	1	D	21:08	X
240-27038-36	1	D	21:12	X
ZZZZZZ			21:16	
ZZZZZZ			21:20	
ZZZZZZ			21:24	
ZZZZZZ			21:27	
ZZZZZZ			21:31	
ZZZZZZ			21:35	
CCV 240-94920/117	1		21:39	X
CCB 240-94920/118	1		21:43	X
ZZZZZZ			21:47	
ZZZZZZ			21:51	
ZZZZZZ			21:55	
ZZZZZZ			21:59	
ZZZZZZ			22:03	
ZZZZZZ			22:07	
ZZZZZZ			22:11	
ZZZZZZ			22:15	

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-27038-1

SDG No.:

Instrument ID: I10 Method: 6020

Start Date: 07/24/2013 13:58 End Date: 07/25/2013 00:26

Lab Sample ID	D/F	Type	Time	Analytes: Cu																			
ZZZZZZ			22:19																				
ZZZZZZ			22:23																				
CCV 240-94920/129			22:27																				
CCB 240-94920/130			22:31																				
ZZZZZZ			22:35																				
ZZZZZZ			22:39																				
ZZZZZZ			22:43																				
ZZZZZZ			22:47																				
ZZZZZZ			22:51																				
ZZZZZZ			22:55																				
ZZZZZZ			22:59																				
ZZZZZZ			23:03																				
ZZZZZZ			23:07																				
ZZZZZZ			23:10																				
CCV 240-94920/141			23:14																				
CCB 240-94920/142			23:18																				
ZZZZZZ			23:22																				
ZZZZZZ			23:26																				
ZZZZZZ			23:30																				
ZZZZZZ			23:34																				
ZZZZZZ			23:38																				
ZZZZZZ			23:42																				
ZZZZZZ			23:46																				
ZZZZZZ			23:50																				
ZZZZZZ			23:54																				
ZZZZZZ			23:58																				
CCV 240-94920/153			00:02																				
CCB 240-94920/154			00:06																				
ZZZZZZ			00:10																				
ZZZZZZ			00:14																				
ZZZZZZ			00:18																				
CCV 240-94920/158			00:22																				
CCB 240-94920/159			00:26																				

Prep Types
D = Dissolved

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-27038-1

SDG No.:

Instrument ID: H1 Method: 7470A

Start Date: 07/23/2013 07:45 End Date: 07/23/2013 10:47

Lab Sample ID	D/F	Type	Time	Analytes: Hg
IC 240-94380/1-A			07:45	X
IC 240-94380/1-A			07:46	X
IC 240-94380/2-A			07:49	X
IC 240-94380/2-A			07:50	X
IC 240-94380/3-A			07:52	X
IC 240-94380/3-A			07:54	X
IC 240-94380/4-A			07:55	X
IC 240-94380/4-A			07:56	X
IC 240-94380/5-A			07:58	X
IC 240-94380/5-A			07:59	X
IC 240-94380/6-A			08:00	X
IC 240-94380/6-A			08:02	X
IC 240-94380/7-A			08:03	X
IC 240-94380/7-A			08:05	X
ICV 240-94380/8-A	1		08:12	X
ICB 240-94380/9-A	1		08:14	X
CRA 240-94380/10-A	1		08:16	X
CCVL 240-94380/11-A	1		08:17	X
CCB 240-94380/12-A			08:19	
ZZZZZZ			08:20	
ZZZZZZ			08:22	
ZZZZZZ			08:23	
ZZZZZZ			08:25	
ZZZZZZ			08:27	
ZZZZZZ			08:29	
ZZZZZZ			08:30	
ZZZZZZ			08:32	
ZZZZZZ			08:34	
ZZZZZZ			08:36	
CCV 240-94380/13-A	1		08:37	X
CCB 240-94380/12-A	1		08:39	X
ZZZZZZ			08:40	
ZZZZZZ			08:41	
MB 240-94370/1-A	1	T	08:43	X
LCS 240-94370/2-A	1	T	08:44	X
240-27038-1	1	D	08:45	X
240-27038-1 MS	1	D	08:47	X
240-27038-1 MSD	1	D	08:49	X
240-27038-2	1	D	08:50	X
240-27038-3	1	D	08:52	X
240-27038-4	1	D	08:54	X
CCV 240-94380/13-A	1		08:57	X

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-27038-1

SDG No.:

Instrument ID: H1 Method: 7470A

Start Date: 07/23/2013 07:45 End Date: 07/23/2013 10:47

Lab Sample ID	D/F	Type	Time	Analytes: Hg
CCB 240-94380/12-A	1		08:58	X
240-27038-5	1	D	09:00	X
240-27038-6	1	D	09:01	X
240-27038-7	1	D	09:02	X
240-27038-8	1	D	09:04	X
240-27038-9	1	D	09:06	X
240-27038-10	1	D	09:07	X
240-27038-11	1	D	09:08	X
240-27038-12	1	D	09:10	X
240-27038-13	1	D	09:11	X
240-27038-14	1	D	09:13	X
CCV 240-94380/13-A	1		09:14	X
CCB 240-94380/12-A	1		09:15	X
240-27038-15	1	D	09:17	X
240-27038-16	1	D	09:18	X
240-27038-17	1	D	09:20	X
240-27038-18	1	D	09:21	X
240-27038-19	1	D	09:23	X
240-27038-20	1	D	09:25	X
MB 240-94372/1-A	1	T	09:26	X
LCS 240-94372/2-A	1	T	09:28	X
240-27038-21	1	D	09:30	X
240-27038-21 MS	1	D	09:31	X
CCV 240-94380/13-A	1		09:33	X
CCB 240-94380/12-A	1		09:34	X
240-27038-21 MSD	1	D	09:35	X
240-27038-22	1	D	09:37	X
240-27038-23	1	D	09:38	X
240-27038-24	1	D	09:39	X
240-27038-25	1	D	09:41	X
240-27038-26	1	D	09:42	X
240-27038-27	1	D	09:44	X
240-27038-28	1	D	09:45	X
240-27038-29	1	D	09:46	X
240-27038-30	1	D	09:48	X
CCV 240-94380/13-A	1		09:50	X
CCB 240-94380/12-A	1		09:51	X
240-27038-31	1	D	09:53	X
240-27038-32	1	D	09:54	X
240-27038-33	1	D	09:55	X
240-27038-34	1	D	09:57	X
240-27038-35	1	D	09:59	X

ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton   Job No.: 240-27038-1

SDG No.:

Instrument ID: H1   Method: 7470A

Start Date: 07/23/2013 07:45   End Date: 07/23/2013 10:47

Lab Sample ID	D/F	Type	Time	Hg
240-27038-36	1	D	10:01	X
ZZZZZZ			10:03	
ZZZZZZ			10:04	
ZZZZZZ			10:05	
ZZZZZZ			10:07	
CCV 240-94380/13-A	1		10:09	X
CCB 240-94380/12-A	1		10:11	X
ZZZZZZ			10:12	
ZZZZZZ			10:13	
ZZZZZZ			10:15	
ZZZZZZ			10:16	
ZZZZZZ			10:17	
ZZZZZZ			10:19	
ZZZZZZ			10:20	
ZZZZZZ			10:22	
ZZZZZZ			10:23	
ZZZZZZ			10:25	
CCV 240-94380/13-A			10:26	
CCB 240-94380/12-A			10:27	
ZZZZZZ			10:29	
ZZZZZZ			10:30	
ZZZZZZ			10:32	
ZZZZZZ			10:33	
ZZZZZZ			10:35	
ZZZZZZ			10:36	
ZZZZZZ			10:38	
ZZZZZZ			10:40	
ZZZZZZ			10:42	
ZZZZZZ			10:44	
CCV 240-94380/13-A			10:45	
CCB 240-94380/12-A			10:47	

Prep Types

D = Dissolved

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton   Job No.: 240-27038-1

SDG No.:

Instrument ID: NOEQUIP   Method: SM 2340B

Start Date: 07/26/2013 13:25   End Date: 07/26/2013 13:25

Lab Sample ID	D/F	Type	Time	Analytes: CaCO3	HardCC	MgHARD
240-27038-1	1	D	13:25	X	X	X
240-27038-2	1	D	13:25	X	X	X
240-27038-3	1	D	13:25	X	X	X
240-27038-4	1	D	13:25	X	X	X
240-27038-5	1	D	13:25	X	X	X
240-27038-6	1	D	13:25	X	X	X
240-27038-7	1	D	13:25	X	X	X
240-27038-8	1	D	13:25	X	X	X
240-27038-9	1	D	13:25	X	X	X
240-27038-10	1	D	13:25	X	X	X
240-27038-11	1	D	13:25	X	X	X
240-27038-12	1	D	13:25	X	X	X
240-27038-13	1	D	13:25	X	X	X
240-27038-14	1	D	13:25	X	X	X
240-27038-15	1	D	13:25	X	X	X
240-27038-16	1	D	13:25	X	X	X
240-27038-17	1	D	13:25	X	X	X
240-27038-18	1	D	13:25	X	X	X
240-27038-19	1	D	13:25	X	X	X
240-27038-20	1	D	13:25	X	X	X
240-27038-21	1	D	13:25	X	X	X
240-27038-22	1	D	13:25	X	X	X
240-27038-23	1	D	13:25	X	X	X
240-27038-24	1	D	13:25	X	X	X
240-27038-25	1	D	13:25	X	X	X
240-27038-26	1	D	13:25	X	X	X
240-27038-27	1	D	13:25	X	X	X
240-27038-28	1	D	13:25	X	X	X
240-27038-29	1	D	13:25	X	X	X
240-27038-30	1	D	13:25	X	X	X
240-27038-31	1	D	13:25	X	X	X
240-27038-32	1	D	13:25	X	X	X
240-27038-33	1	D	13:25	X	X	X
240-27038-34	1	D	13:25	X	X	X
240-27038-35	1	D	13:25	X	X	X
240-27038-36	1	D	13:25	X	X	X

Prep Types
D = Dissolved

Sample Report

SAmple MSA-SW37D-071813
arsenic rep result 2.3 ug/L

Sample Table

Sample Name	240-27038-d-4-a
Data File Name	110SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\I10072313B.b
Acq Date Time	2013-07-23T19:18:41-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

hardness as $CaCO_3$ rep. 390 mg/L

(2.497)(Ca mg/L) + (4.118)(Mg mg/L)

(2.497)(39.567) + (4.118)(69.533)

98.799 + 286.337 = 385.13 mg/L

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.174	0.174	21.26	815	0.02	10000	
B	11	6	2	NoGas	321.519	321.519	0.36	942303	0.03	500	
Na	23	45	1	He	559479.647	559479.647	0.93	641220789	0.09	500000	>LDR
Mg	24	45	1	He	69533.078	69533.078	1.27	42946355	0.16	500000	
Al	27	45	1	He	32.828	32.828	6.28	10176	0.32	200000	
K	39	45	1	He	23387.903	23387.903	0.83	16611529	0.14	500000	
Ca	44	45	1	He	39566.656	39566.656	0.96	1396796	2.83	500000	
Ti	47	45	1	He	0.184	0.184	41.68	49	0.38	5000	
V	51	45	1	He	3.106	3.106	1.70	24322	0.01	10000	
Cr	52	45	1	He	0.269	0.269	4.38	2795	0.01	10000	
Mn	55	45	1	He	17.580	17.580	1.43	89908	0.02	10000	
Fe	56	45	1	He	9.062	9.062	1.04	75862	0.01	200000	
Co	59	45	1	He	0.104	0.104	3.65	1509	0.01	10000	
Ni	60	45	1	He	1.386	1.386	3.12	5282	0.03	10000	
Cu	63	103	1	He	6.965	6.965	1.08	66262	0.01	10000	
Zn	66	45	1	He	4.233	4.233	3.17	7017	0.06	10000	
As	75	115	1	He	2.283	2.283	0.47	2457	0.09	10000	
Se	78	115	1	He	0.780	0.780	27.75	143	0.54	10000	
Sr	88	45	1	He	471.572	471.572	1.12	3067483	0.02	10000	
Mo	95	103	1	He	1.658	1.658	1.04	6970	0.02	2000	
Ag	107	103	1	He	0.013	0.013	13.07	219	0.01	300	
Cd	111	115	1	He	0.037	0.037	13.31	172	0.02	4000	
Sn	118	115	1	He	0.149	0.149	14.04	941	0.02	2000	
Sb	123	115	1	He	0.267	0.267	2.80	1352	0.02	300	
Ba	137	115	1	He	22.511	22.511	1.68	43551	0.05	10000	
W	182	159	1	He	0.096	0.096	8.58	1385	0.01	10000	
Tl	205	209	1	He	0.013	0.013	19.82	399	0.00	5000	
Pb	208	209	1	He	0.188	0.188	6.65	7026	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	563919	1.01	569374	99.04	30	120	
Sc	45	1	He	202220	0.58	210869	95.90	30	120	
Sc	45	2	NoGas	4205339	0.85	3997791	105.19	30	120	
Rh	103	1	He	1986470	0.98	2232963	88.96	30	120	
In	115	1	He	950457	0.23	1074549	88.45	30	120	
Tb	159	1	He	2515482	0.83	2662301	94.49	30	120	
Ho	165	1	He	2508153	0.81	2602299	96.38	30	120	
Bi	209	1	He	1483012	0.34	1742524	85.11	30	120	

Tetra Tech, Inc. **INTERNAL CORRESPONDENCE**

TO:	**A. APANAVAGE**	**DATE:**	**AUGUST 12, 2013**
FROM:	**MICHELLE L. ALLEN**	**COPIES:**	**DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION – VOC**
LOCKHEED MARTIN CORPORATION (LMC) – MARTIN STATE AIRPORT (MSA)
SDG 240-27038-1

SAMPLES: 41/Aqueous/VOC

EL-SW01A-071813	EL-SW01B-071813	EL-SW01C-071813
EL-SW01D-071813	MSA-SW37A-071813	MSA-SW37B-071813
MSA-SW37C-071813	MSA-SW37D-071813	MSA-SW38A-071813
MSA-SW38B-071813	MSA-SW38C-071813	MSA-SW38D-071813
MSA-SW39A-071813	MSA-SW39B-071813	MSA-SW39C-071813
MSA-SW39D-071813	MSA-SW40A-071813	MSA-SW40B-071813
MSA-SW40C-071813	MSA-SW40D-071813	MSA-SW41A-071813
MSA-SW41B-071813	MSA-SW41C-071813	MSA-SW41D-071813
MSA-SW42A-071813	MSA-SW42B-071813	MSA-SW42C-071813
MSA-SW42D-071813	MSA-SW43A-071813	MSA-SW43B-071813
MSA-SW43C-071813	MSA-SW43D-071813	MSA-SW44A-071813
MSA-SW44B-071813	MSA-SW44C-071813	MSA-SW44D-071813
MSA-SW45A-071813	MSA-SW45B-071813	MSA-SW45C-071813
MSA-SW45D-071813	TB-071813	

Overview

The sample set for LMC-MSA, SDG 240-27038-1 consisted of forty (40) aqueous environmental samples and one (1) trip blank. All forty-one (41) aqueous samples were analyzed for volatile organic compounds (VOC). No field duplicate sample pair was included in this SDG.

The samples were collected by Tetra Tech, Inc. on July 18, 2013 and analyzed by TestAmerica, Inc. All analyses were conducted in accordance with SW-846 Method 8260B 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 A3UX17 had Relative Response Factors (RRFs) for tert-butyl alcohol and vinyl acetate below the 0.050 minimum response criterion. The non-detected results reported for these compounds in the affected samples, EL-SW01A-071813, EL-SW01B-071813, EL-SW01C-071813, EL-SW01D-071813, MSA-SW42A-071813, MSA-SW42B-071813, MSA-SW42C-071813, MSA-SW42D-071813, MSA-SW43A-071813, MSA-SW43B-071813, MSA-SW43C-071813, MSA-SW43D-071813, MSA-SW44A-071813, MSA-SW44B-071813, MSA-SW44C-071813, MSA-SW44D-071813, MSA-SW45A-071813, MSA-SW45B-071813, MSA-SW45C-071813, MSA-SW45D-071813, and TB-071813, were qualified as rejected, (UR).

- The continuing calibration performed on instrument A3UX9 on 07/22/13 had a RRF for tert-butyl alcohol below the 0.050 minimum response criterion. Samples MSA-SW37A-071813, MSA-SW37B-071813, MSA-SW37C-071813, MSA-SW37D-071813, MSA-SW38A-071813, MSA-SW38B-071813, MSA-SW38C-071813, MSA-SW38D-071813, MSA-SW39A-071813, MSA-SW39B-071813, MSA-SW39C-071813, MSA-SW39D-071813, MSA-SW40A-071813, MSA-SW40B-071813, MSA-SW40C-071813, MSA-SW40D-071813, MSA-SW41A-071813, MSA-SW41B-071813, MSA-SW41C-071813, and MSA-SW41D-071813 were affected. Only non-detected results were reported for this compound in the affected samples and these non-detects were qualified as rejected, (UR).

- The compound, 2-chloroethyl vinyl ether, was not recovered (Percent Recovery (%R) = 0%) in the Matrix Spike/Matrix Spike Duplicate (MS/MSD) analyses performed on sample MSA-SW42A-071813. The non-detected result reported for 2-chloroethyl vinyl ether was qualified as rejected, (UR).

Minor

- The continuing calibration performed on instrument A3UX17on 07/23/13 @ 14:08 had Percent Drifts (%Drifts) for 1,2,4-trichlorobenzene, hexachlorobutadiene, and 1,2,3-trichlorobenzene which exceeded the 20% quality control limits and were greater than 50%. Samples EL-SW01A-071813, EL-SW01B-071813, EL-SW01C-071813, EL-SW01D-071813, MSA-SW42A-071813, MSA-SW42B-071813, MSA-SW42C-071813, MSA-SW42D-071813, MSA-SW43A-071813, MSA-SW43B-071813, MSA-SW43C-071813, MSA-SW43D-071813, MSA-SW44A-071813, MSA-SW44B-071813, MSA-SW44C-071813, MSA-SW44D-071813, MSA-SW45A-071813, MSA-SW45B-071813, MSA-SW45C-071813, and MSA-SW45D-071813 were affected. The non-detected results reported for these compounds were qualified as estimated, (UJ), in the affected samples.

- The continuing calibration performed on instrument A3UX17 on 07/24/13 @ 11:34 had a %D for 1,2,3-trichlorobenzene which exceeded 50%. The non-detected result reported for this compound in the affected trip blank, TB-071813, was qualified as estimated, (UJ).

- The continuing calibration performed on instrument A3UX17on 07/23/13 @ 14:08 had a %Drift for acetone which exceeded 20% but was less than 50%. The detected acetone results in the affected samples, EL-SW01A-071813, EL-SW01B-071813, EL-SW01C-071813, EL-SW01D-071813, MSA-SW42B-071813, MSA-SW42C-071813, MSA-SW43A-071813, MSA-SW43C-071813, MSA-SW44D-071813, MSA-SW45A-071813, MSA-SW45B-071813, and MSA-SW45C-071813, were qualified as estimated, (J).

- The %Rs for 1,2,3-trichlorobenzene were below the lower quality control limits the blank spike samples associated with preparation batches #94651 and #94801. The non-detected results reported for 1,2,3-trichlorobenzene in the affected samples were qualified as estimated, (UJ), due to conflicting directional bias.

- The MS %R for 1,2,3-trichlorobenzene was below the lower quality control limit in the MS/MSD analyses of sample MSA-SW42A-071813. The associated blank spike sample (preparation batch #94651) also had a low %R for 1,2,3-trichlorobenzene. The non-detected result reported for 1,2,3-trichlorobenzene in the parent sample was qualified as estimated, (UJ), due to conflicting directional bias.

- Detected results reported below the Reporting Limit (RL) limit but above the Method Detection Limit (MDL) were qualified as estimated, (J).

Notes

The continuing calibrations performed on instrument A3UX17 on 07/23/13 @ 14:08 and 14:30 had %Ds for vinyl acetate, tert-butyl alcohol, and tert-amyl-methyl ether (TAME) which exceeded the 20% quality control limit but were less than 50%. No action was taken in the affected samples because only non-detected results were reported for these compounds.

The continuing calibrations performed on instrument A3UX17 on 07/24/13 @ 11:34 and 11:56 had %Ds or %Drifts for methylene chloride, vinyl acetate, 2-hexanone, 1,2,3-trichloropropane, 1,2-dibromo-3-chloropropane, 1,2,4-trichlorobenzene, hexachlorobutadiene, ethyl-t-butyl ether (ETBE), and TAME which exceeded the 20% quality control limit but were less than 50%. No action was taken in the affected trip blank because only non-detected results were reported for these compounds.

The continuing calibration performed on instrument A3UX9 on 07/22/13 @ 17:39 had %Ds which exceeded the 20% quality control limit but were less than 50% for vinyl acetate, 2-butanone, and 2-hexanone. No validation action was necessary because no detected results were reported for these compounds in the affected samples.

The continuing calibration performed on instrument A3UX9 on 07/22/13 @ 17:39 had a %D for tert-butyl alcohol which exceeded 50%. No action was taken because the non-detected results reported for this compound in the affected samples were previously qualified for a more severe calibration noncompliance.

Hexachlorobutadiene, acetone, and methylene chloride were detected in the laboratory method blanks. No action was necessary because these compounds were not detected in the associated environmental samples.

Sample MSA-SW40A-071813 had an incorrect time of analysis on several forms. The laboratory was contacted and explained the error was due to computer program issue occurs when a sample is analyzed at exactly midnight. The time is shown as 00:00 with the previous day as the date. Therefore, this sample was analyzed on 07/23/13 @ 00:00 not on 07/22/13 @ 00:00 as recorded on the Form I, IV, and V. Due to the computer issue, this sample was also not included on the Form VIII. The data reviewer manually corrected the forms and used the sample raw data to check internal standard compliance.

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 for some target compounds but was not detected in the associated environmental samples. The blank spike sample had a noncompliant %R. A computer programming glitch leads to an incorrect time of analysis for one sample on several laboratory forms.

Other Factors Affecting Data Quality: The MS/MSD had a zero %R for 2-chloroethyl vinyl ether and a low %R for 1,2,3-trichlorobenzene. Detected results below the RL were estimated.

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 Method 8260B analytical and reporting protocols. The text of this report has been formulated to address only those problem areas affecting data quality.

Tetra Tech, Inc.
Michelle L. Allen
Chemist/Data Validator

Tetra Tech, Inc.
Joseph A. Samchuck
Data Validation 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 standard deviations is greater than sample activity
Z1	=	Tentatively Identified Compound considered presumptively present
Z2	=	Tentatively Identified Compound column bleed
Z3	=	Tentatively Identified Compound aldol condensate

PROJ_NO: 04793	NSAMPLE	EL-SW01A-071813			EL-SW01B-071813			EL-SW01C-071813			EL-SW01D-071813		
SDG: 240-27038-1	LAB_ID	240-27038-37			240-27038-38			240-27038-39			240-27038-40		
FRACTION: OV	SAMP_DATE	7/18/2013			7/18/2013			7/18/2013			7/18/2013		
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	UJ	CE	0.17	UJ	CE	0.17	UJ	CE	0.17	UJ	CE
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	UJ	C	0.15	UJ	C	0.15	UJ	C	0.15	UJ	C
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		1.4	J	CP	1.1	J	CP	2.9	J	CP	1.8	J	CP
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: 04793 SDG: 240-27038-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW37A-071813			MSA-SW37B-071813			MSA-SW37C-071813			MSA-SW37D-071813		
	LAB_ID	240-27038-1			240-27038-2			240-27038-3			240-27038-4		
	SAMP_DATE	7/18/2013			7/18/2013			7/18/2013			7/18/2013		
	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	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: 04793	NSAMPLE	MSA-SW38A-071813			MSA-SW38B-071813			MSA-SW38C-071813			MSA-SW38D-071813		
SDG: 240-27038-1	LAB_ID	240-27038-5			240-27038-6			240-27038-7			240-27038-8		
FRACTION: OV	SAMP_DATE	7/18/2013			7/18/2013			7/18/2013			7/18/2013		
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	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: 04793 SDG: 240-27038-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW39A-071813			MSA-SW39B-071813			MSA-SW39C-071813			MSA-SW39D-071813		
	LAB_ID	240-27038-9			240-27038-10			240-27038-11			240-27038-12		
	SAMP_DATE	7/18/2013			7/18/2013			7/18/2013			7/18/2013		
	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	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: 04793	NSAMPLE	MSA-SW40A-071813			MSA-SW40B-071813			MSA-SW40C-071813			MSA-SW40D-071813		
SDG: 240-27038-1	LAB_ID	240-27038-13			240-27038-14			240-27038-15			240-27038-16		
FRACTION: OV	SAMP_DATE	7/18/2013			7/18/2013			7/18/2013			7/18/2013		
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	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: 04793	NSAMPLE	MSA-SW41A-071813			MSA-SW41B-071813			MSA-SW41C-071813			MSA-SW41D-071813		
SDG: 240-27038-1	LAB_ID	240-27038-17			240-27038-18			240-27038-19			240-27038-20		
FRACTION: OV	SAMP_DATE	7/18/2013			7/18/2013			7/18/2013			7/18/2013		
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		0.17	J	P
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	U		0.13	U		0.13	U		0.19	J	P
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: 04793	NSAMPLE	MSA-SW42A-071813			MSA-SW42B-071813			MSA-SW42C-071813			MSA-SW42D-071813		
SDG: 240-27038-1	LAB_ID	240-27038-21			240-27038-22			240-27038-23			240-27038-24		
FRACTION: OV	SAMP_DATE	7/18/2013			7/18/2013			7/18/2013			7/18/2013		
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	UJ	CDE	0.17	UJ	CE	0.17	UJ	CE	0.17	UJ	CE
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	UJ	C	0.15	UJ	C	0.15	UJ	C	0.15	UJ	C
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	CP	2.5	J	CP	1.1	U	
BENZENE		0.13	U		0.13	J	P	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: 04793 SDG: 240-27038-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW43A-071813			MSA-SW43B-071813			MSA-SW43C-071813			MSA-SW43D-071813		
	LAB_ID	240-27038-25			240-27038-26			240-27038-27			240-27038-28		
	SAMP_DATE	7/18/2013			7/18/2013			7/18/2013			7/18/2013		
	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	UJ	CE	0.17	UJ	CE	0.17	UJ	CE	0.17	UJ	CE
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	UJ	C	0.15	UJ	C	0.15	UJ	C	0.15	UJ	C
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		2.6	J	CP	1.1	U		1.5	J	CP	1.1	U	
BENZENE		0.13	J	P	0.13	U		0.13	J	P	0.13	J	P
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: 04793	NSAMPLE	MSA-SW44A-071813			MSA-SW44B-071813			MSA-SW44C-071813			MSA-SW44D-071813		
SDG: 240-27038-1	LAB_ID	240-27038-29			240-27038-30			240-27038-31			240-27038-32		
FRACTION: OV	SAMP_DATE	7/18/2013			7/18/2013			7/18/2013			7/18/2013		
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	UJ	CE	0.17	UJ	CE	0.17	UJ	CE	0.17	UJ	CE
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	UJ	C	0.15	UJ	C	0.15	UJ	C	0.15	UJ	C
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	J	CP
BENZENE		0.13	U		0.14	J	P	0.13	U		0.13	J	P
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: 04793	NSAMPLE	MSA-SW45A-071813			MSA-SW45B-071813			MSA-SW45C-071813			MSA-SW45D-071813		
SDG: 240-27038-1	LAB_ID	240-27038-33			240-27038-34			240-27038-35			240-27038-36		
FRACTION: OV	SAMP_DATE	7/18/2013			7/18/2013			7/18/2013			7/18/2013		
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	UJ	CE	0.17	UJ	CE	0.17	UJ	CE	0.17	UJ	CE
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	UJ	C	0.15	UJ	C	0.15	UJ	C	0.15	UJ	C
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		2	J	CP	1.2	J	CP	1.7	J	CP	1.1	U	
BENZENE		0.13	U		0.15	J	P	0.17	J	P	0.13	J	P
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: 04793	NSAMPLE	TB-071813		
SDG: 240-27038-1	LAB_ID	240-27038-41		
FRACTION: OV	SAMP_DATE	7/18/2013		
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	UJ	CE
1,2,3-TRICHLOROPROPANE	0.43	U	
1,2,3-TRIMETHYLBENZENE	0.0059	U	
1,2,4-TRICHLOROBENZENE	0.15	UJ	C
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: 04793 SDG: 240-27038-1 FRACTION: OV MEDIA: WATER													
	NSAMPLE	EL-SW01A-071813			EL-SW01B-071813			EL-SW01C-071813			EL-SW01D-071813		
	LAB_ID	240-27038-37			240-27038-38			240-27038-39			240-27038-40		
	SAMP_DATE	7/18/2013			7/18/2013			7/18/2013			7/18/2013		
	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		0.2	J	P	0.15	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		0.3	U		0.3	U	
CIS-1,2-DICHLOROETHENE		0.17	U		0.17	U		0.38	J	P	0.35	J	P
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	UJ	C	0.3	UJ	C	0.3	UJ	C	0.3	UJ	C
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		0.13	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		0.59	J	P	0.64	J	P	0.66	J	P	0.64	J	P
TRICHLOROFLUOROMETHANE		0.21	U		0.21	U		0.21	U		0.21	U	

PROJ_NO: 04793	NSAMPLE	MSA-SW37A-071813			MSA-SW37B-071813			MSA-SW37C-071813			MSA-SW37D-071813		
SDG: 240-27038-1	LAB_ID	240-27038-1			240-27038-2			240-27038-3			240-27038-4		
FRACTION: OV	SAMP_DATE	7/18/2013			7/18/2013			7/18/2013			7/18/2013		
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		0.13	U		0.13	U		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		0.3	U		0.3	U	
CIS-1,2-DICHLOROETHENE		0.65	J	P	0.44	J	P	0.53	J	P	0.51	J	P
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		0.13	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		0.5	J	P	0.64	J	P	1.1			0.83	J	P
TRICHLOROFLUOROMETHANE		0.21	U		0.21	U		0.21	U		0.21	U	

PROJ_NO: 04793	NSAMPLE	MSA-SW38A-071813			MSA-SW38B-071813			MSA-SW38C-071813			MSA-SW38D-071813		
SDG: 240-27038-1	LAB_ID	240-27038-5			240-27038-6			240-27038-7			240-27038-8		
FRACTION: OV	SAMP_DATE	7/18/2013			7/18/2013			7/18/2013			7/18/2013		
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		0.13	U		0.13	U		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		0.3	U		0.3	U	
CIS-1,2-DICHLOROETHENE		0.48	J	P	0.58	J	P	0.56	J	P	0.56	J	P
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		0.13	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		0.84	J	P	0.94	J	P	1.1			1.5		
TRICHLOROFLUOROMETHANE		0.21	U		0.21	U		0.21	U		0.21	U	

PROJ_NO: 04793	NSAMPLE	MSA-SW39A-071813			MSA-SW39B-071813			MSA-SW39C-071813			MSA-SW39D-071813		
SDG: 240-27038-1	LAB_ID	240-27038-9			240-27038-10			240-27038-11			240-27038-12		
FRACTION: OV	SAMP_DATE	7/18/2013			7/18/2013			7/18/2013			7/18/2013		
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		0.13	U		0.13	U		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		0.3	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		0.13	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		0.26	J	P	0.24	J	P
TRICHLOROFLUOROMETHANE		0.21	U		0.21	U		0.21	U		0.21	U	

PROJ_NO: 04793	NSAMPLE	MSA-SW40A-071813			MSA-SW40B-071813			MSA-SW40C-071813			MSA-SW40D-071813		
SDG: 240-27038-1	LAB_ID	240-27038-13			240-27038-14			240-27038-15			240-27038-16		
FRACTION: OV	SAMP_DATE	7/18/2013			7/18/2013			7/18/2013			7/18/2013		
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		0.13	U		0.13	U		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		0.3	U		0.3	U	
CIS-1,2-DICHLOROETHENE		0.5	J	P	0.55	J	P	0.38	J	P	0.38	J	P
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		0.13	U		0.13	U		0.28	J	P
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		0.63	J	P	1.2			1.1			0.56	J	P
TRICHLOROFLUOROMETHANE		0.21	U		0.21	U		0.21	U		0.21	U	

PROJ_NO: 04793	NSAMPLE	MSA-SW41A-071813			MSA-SW41B-071813			MSA-SW41C-071813			MSA-SW41D-071813		
SDG: 240-27038-1	LAB_ID	240-27038-17			240-27038-18			240-27038-19			240-27038-20		
FRACTION: OV	SAMP_DATE	7/18/2013			7/18/2013			7/18/2013			7/18/2013		
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		0.13	U		0.13	U		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		0.3	U		0.3	U	
CIS-1,2-DICHLOROETHENE		1.1			0.51	J	P	0.53	J	P	0.49	J	P
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		0.42	J	P
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		0.21	J	P
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		0.13	U		0.13	U		0.63	J	P
TOTAL XYLENES		0.28	U		0.28	U		0.28	U		0.63	J	P
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		1.7			1.1			0.93	J	P	0.85	J	P
TRICHLOROFLUOROMETHANE		0.21	U		0.21	U		0.21	U		0.21	U	

PROJ_NO: 04793	NSAMPLE	MSA-SW42A-071813			MSA-SW42B-071813			MSA-SW42C-071813			MSA-SW42D-071813		
SDG: 240-27038-1	LAB_ID	240-27038-21			240-27038-22			240-27038-23			240-27038-24		
FRACTION: OV	SAMP_DATE	7/18/2013			7/18/2013			7/18/2013			7/18/2013		
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		0.13	U		0.13	U		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		0.3	U		0.3	U	
CIS-1,2-DICHLOROETHENE		0.46	J	P	0.51	J	P	0.59	J	P	0.52	J	P
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	UJ	C	0.3	UJ	C	0.3	UJ	C	0.3	UJ	C
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		0.13	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		0.68	J	P	0.91	J	P	1.3			1		
TRICHLOROFLUOROMETHANE		0.21	U		0.21	U		0.21	U		0.21	U	

PROJ_NO: 04793 SDG: 240-27038-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW43A-071813			MSA-SW43B-071813			MSA-SW43C-071813			MSA-SW43D-071813		
	LAB_ID	240-27038-25			240-27038-26			240-27038-27			240-27038-28		
	SAMP_DATE	7/18/2013			7/18/2013			7/18/2013			7/18/2013		
	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		0.13	U		0.13	U		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		0.3	U		0.3	U	
CIS-1,2-DICHLOROETHENE		5.4			1.3			0.65	J	P	0.39	J	P
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	UJ	C	0.3	UJ	C	0.3	UJ	C	0.3	UJ	C
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		0.13	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		3.6			1.4			1.1			0.72	J	P
TRICHLOROFLUOROMETHANE		0.21	U		0.21	U		0.21	U		0.21	U	

PROJ_NO: 04793	NSAMPLE	MSA-SW44A-071813			MSA-SW44B-071813			MSA-SW44C-071813			MSA-SW44D-071813		
SDG: 240-27038-1	LAB_ID	240-27038-29			240-27038-30			240-27038-31			240-27038-32		
FRACTION: OV	SAMP_DATE	7/18/2013			7/18/2013			7/18/2013			7/18/2013		
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		0.13	U		0.13	U		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		0.3	U		0.3	U	
CIS-1,2-DICHLOROETHENE		0.45	J	P	0.41	J	P	0.46	J	P	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	UJ	C	0.3	UJ	C	0.3	UJ	C	0.3	UJ	C
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		0.27	J	P	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		0.78	J	P	0.88	J	P	0.82	J	P	0.75	J	P
TRICHLOROFLUOROMETHANE		0.21	U		0.21	U		0.21	U		0.21	U	

PROJ_NO: 04793	NSAMPLE	MSA-SW45A-071813			MSA-SW45B-071813			MSA-SW45C-071813			MSA-SW45D-071813		
SDG: 240-27038-1	LAB_ID	240-27038-33			240-27038-34			240-27038-35			240-27038-36		
FRACTION: OV	SAMP_DATE	7/18/2013			7/18/2013			7/18/2013			7/18/2013		
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		0.14	J	P	0.13	U		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		0.3	U		0.3	U	
CIS-1,2-DICHLOROETHENE		0.32	J	P	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	UJ	C	0.3	UJ	C	0.3	UJ	C	0.3	UJ	C
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		0.13	U		0.43	J	P	0.13	J	P
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		0.6	J	P	0.33	J	P	0.26	J	P	0.37	J	P
TRICHLOROFLUOROMETHANE		0.21	U		0.21	U		0.21	U		0.21	U	

PROJ_NO: 04793	NSAMPLE	TB-071813		
SDG: 240-27038-1	LAB_ID	240-27038-41		
FRACTION: OV	SAMP_DATE	7/18/2013		
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	UJ	C
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: 04793	NSAMPLE	EL-SW01A-071813			EL-SW01B-071813			EL-SW01C-071813			EL-SW01D-071813		
SDG: 240-27038-1	LAB_ID	240-27038-37			240-27038-38			240-27038-39			240-27038-40		
FRACTION: OV	SAMP_DATE	7/18/2013			7/18/2013			7/18/2013			7/18/2013		
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: 04793 SDG: 240-27038-1 FRACTION: OV MEDIA: WATER													
	NSAMPLE	MSA-SW37A-071813			MSA-SW37B-071813			MSA-SW37C-071813			MSA-SW37D-071813		
	LAB_ID	240-27038-1			240-27038-2			240-27038-3			240-27038-4		
	SAMP_DATE	7/18/2013			7/18/2013			7/18/2013			7/18/2013		
	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	U		0.19	U		0.19	U		0.19	U	
VINYL CHLORIDE		1			0.29	J	P	0.23	J	P	0.29	J	P

PROJ_NO: 04793	NSAMPLE	MSA-SW38A-071813			MSA-SW38B-071813			MSA-SW38C-071813			MSA-SW38D-071813		
SDG: 240-27038-1	LAB_ID	240-27038-5			240-27038-6			240-27038-7			240-27038-8		
FRACTION: OV	SAMP_DATE	7/18/2013			7/18/2013			7/18/2013			7/18/2013		
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	U		0.19	U		0.19	U		0.19	U	
VINYL CHLORIDE		0.38	J	P	0.27	J	P	0.24	J	P	0.23	J	P

PROJ_NO: 04793	NSAMPLE	MSA-SW39A-071813			MSA-SW39B-071813			MSA-SW39C-071813			MSA-SW39D-071813		
SDG: 240-27038-1	LAB_ID	240-27038-9			240-27038-10			240-27038-11			240-27038-12		
FRACTION: OV	SAMP_DATE	7/18/2013			7/18/2013			7/18/2013			7/18/2013		
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	U		0.19	U		0.19	U		0.19	U	
VINYL CHLORIDE		0.22	U		0.22	U		0.22	U		0.22	U	

PROJ_NO: 04793	NSAMPLE	MSA-SW40A-071813			MSA-SW40B-071813			MSA-SW40C-071813			MSA-SW40D-071813		
SDG: 240-27038-1	LAB_ID	240-27038-13			240-27038-14			240-27038-15			240-27038-16		
FRACTION: OV	SAMP_DATE	7/18/2013			7/18/2013			7/18/2013			7/18/2013		
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	U		0.19	U		0.19	U		0.19	U	
VINYL CHLORIDE		0.33	J	P	0.32	J	P	0.24	J	P	0.22	U	

PROJ_NO: 04793	NSAMPLE	MSA-SW41A-071813			MSA-SW41B-071813			MSA-SW41C-071813			MSA-SW41D-071813		
SDG: 240-27038-1	LAB_ID	240-27038-17			240-27038-18			240-27038-19			240-27038-20		
FRACTION: OV	SAMP_DATE	7/18/2013			7/18/2013			7/18/2013			7/18/2013		
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	U		0.19	U		0.19	U		0.19	U	
VINYL CHLORIDE		0.37	J	P	0.33	J	P	0.22	J	P	0.24	J	P

PROJ_NO: 04793	NSAMPLE	MSA-SW42A-071813			MSA-SW42B-071813			MSA-SW42C-071813			MSA-SW42D-071813		
SDG: 240-27038-1	LAB_ID	240-27038-21			240-27038-22			240-27038-23			240-27038-24		
FRACTION: OV	SAMP_DATE	7/18/2013			7/18/2013			7/18/2013			7/18/2013		
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		0.36	J	P	0.3	J	P	0.31	J	P	0.27	J	P

PROJ_NO: 04793	NSAMPLE	MSA-SW43A-071813			MSA-SW43B-071813			MSA-SW43C-071813			MSA-SW43D-071813		
SDG: 240-27038-1	LAB_ID	240-27038-25			240-27038-26			240-27038-27			240-27038-28		
FRACTION: OV	SAMP_DATE	7/18/2013			7/18/2013			7/18/2013			7/18/2013		
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		0.43	J	P	0.36	J	P	0.22	J	P	0.22	U	

PROJ_NO: 04793	NSAMPLE	MSA-SW44A-071813			MSA-SW44B-071813			MSA-SW44C-071813			MSA-SW44D-071813		
SDG: 240-27038-1	LAB_ID	240-27038-29			240-27038-30			240-27038-31			240-27038-32		
FRACTION: OV	SAMP_DATE	7/18/2013			7/18/2013			7/18/2013			7/18/2013		
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		0.23	J	P	0.23	J	P	0.22	J	P

PROJ_NO: 04793	NSAMPLE	MSA-SW45A-071813			MSA-SW45B-071813			MSA-SW45C-071813			MSA-SW45D-071813		
SDG: 240-27038-1	LAB_ID	240-27038-33			240-27038-34			240-27038-35			240-27038-36		
FRACTION: OV	SAMP_DATE	7/18/2013			7/18/2013			7/18/2013			7/18/2013		
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: 04793	NSAMPLE	TB-071813		
SDG: 240-27038-1	LAB_ID	240-27038-41		
FRACTION: OV	SAMP_DATE	7/18/2013		
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	

Appendix B

Results as Reported by the Laboratory

Analytical Data

Client: Tetra Tech, Inc | Job Number: 240-27038-1

Client Sample ID: **EL-SW01A-071813**

Lab Sample ID: 240-27038-37
Client Matrix: Water

Date Sampled: 07/18/2013 0926
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94651	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR6565.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 2226			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 2226				

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	5.0	U	0.67	5.0
1,2-Dibromoethane	1.0	U	0.24	1.0
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-Butanone	5.0	U	0.57	5.0
2-Chloroethyl vinyl ether	10	U	0.99	10
2-Chlorotoluene	1.0	U	0.11	1.0
2-Hexanone	5.0	U	0.41	5.0
4-Chlorotoluene	1.0	U	0.18	1.0
4-Methyl-2-pentanone	5.0	U	0.32	5.0
Acetone	1.4	J	1.1	5.0
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromochloromethane	1.0	U	0.29	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon disulfide	0.20	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	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
Dibromochloromethane	1.0	U	0.18	1.0
Dibromomethane	1.0	U	0.28	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
Diisopropyl ether	5.0	U	1.5	5.0

Client: Tetra Tech, Inc

Job Number: 240-27038-1

Client Sample ID:	**EL-SW01A-071813**		
Lab Sample ID:	240-27038-37	Date Sampled:	07/18/2013 0926
Client Matrix:	Water	Date Received:	07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94651	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR6565.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 2226			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 2226				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	1.0	U	0.17	1.0
Ethyl-t-butyl ether (ETBE)	5.0	U	0.11	5.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
Methyl tert-butyl ether	1.0	U	0.17	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
n-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
Tert-amyl-methyl ether (TAME)	5.0	U	0.067	5.0
tert-Butyl alcohol	20	U	3.9	20
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	0.59	J	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
Vinyl acetate	2.0	U	0.19	2.0
Vinyl chloride	0.50	U	0.22	0.50
Xylenes, Total	2.0	U	0.28	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94		63 - 129
4-Bromofluorobenzene (Surr)	70		66 - 117
Dibromofluoromethane (Surr)	103		75 - 121
Toluene-d8 (Surr)	76		74 - 115

Analytical Data

Client: Tetra Tech, Inc

Job Number: 240-27038-1

Client Sample ID: **EL-SW01B-071813**

Lab Sample ID: 240-27038-38
Client Matrix: Water

Date Sampled: 07/18/2013 0942
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94651	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR6566.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 2249			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 2249				

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	5.0	U	0.67	5.0
1,2-Dibromoethane	1.0	U	0.24	1.0
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-Butanone	5.0	U	0.57	5.0
2-Chloroethyl vinyl ether	10	U	0.99	10
2-Chlorotoluene	1.0	U	0.11	1.0
2-Hexanone	5.0	U	0.41	5.0
4-Chlorotoluene	1.0	U	0.18	1.0
4-Methyl-2-pentanone	5.0	U	0.32	5.0
Acetone	1.1	J	1.1	5.0
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromochloromethane	1.0	U	0.29	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon disulfide	0.15	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	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
Dibromochloromethane	1.0	U	0.18	1.0
Dibromomethane	1.0	U	0.28	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
Diisopropyl ether	5.0	U	1.5	5.0

Client: Tetra Tech, Inc

Job Number: 240-27038-1

Client Sample ID: **EL-SW01B-071813**

Lab Sample ID:	240-27038-38	Date Sampled:	07/18/2013 0942
Client Matrix:	Water	Date Received:	07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94651	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR6566.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 2249			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 2249				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	1.0	U	0.17	1.0
Ethyl-t-butyl ether (ETBE)	5.0	U	0.11	5.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
Methyl tert-butyl ether	1.0	U	0.17	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
n-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
Tert-amyl-methyl ether (TAME)	5.0	U	0.067	5.0
tert-Butyl alcohol	20	U	3.9	20
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	0.64	J	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
Vinyl acetate	2.0	U	0.19	2.0
Vinyl chloride	0.50	U	0.22	0.50
Xylenes, Total	2.0	U	0.28	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97		63 - 129
4-Bromofluorobenzene (Surr)	72		66 - 117
Dibromofluoromethane (Surr)	108		75 - 121
Toluene-d8 (Surr)	80		74 - 115

Client: Tetra Tech, Inc

Job Number: 240-27038-1

Client Sample ID: **EL-SW01C-071813**

Lab Sample ID: 240-27038-39
Client Matrix: Water

Date Sampled: 07/18/2013 0947
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94651	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR6567.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 2311			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 2311				

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	5.0	U	0.67	5.0
1,2-Dibromoethane	1.0	U	0.24	1.0
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-Butanone	5.0	U	0.57	5.0
2-Chloroethyl vinyl ether	10	U	0.99	10
2-Chlorotoluene	1.0	U	0.11	1.0
2-Hexanone	5.0	U	0.41	5.0
4-Chlorotoluene	1.0	U	0.18	1.0
4-Methyl-2-pentanone	5.0	U	0.32	5.0
Acetone	2.9	J	1.1	5.0
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromochloromethane	1.0	U	0.29	1.0
Bromodichloromethane	1.0	U	0.15	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	0.38	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Dibromomethane	1.0	U	0.28	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
Diisopropyl ether	5.0	U	1.5	5.0

Analytical Data

Client: Tetra Tech, Inc

Job Number: 240-27038-1

Client Sample ID: **EL-SW01C-071813**

Lab Sample ID: 240-27038-39
Client Matrix: Water

Date Sampled: 07/18/2013 0947
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94651	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR6567.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 2311			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 2311				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	1.0	U	0.17	1.0
Ethyl-t-butyl ether (ETBE)	5.0	U	0.11	5.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
Methyl tert-butyl ether	1.0	U	0.17	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
n-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
Tert-amyl-methyl ether (TAME)	5.0	U	0.067	5.0
tert-Butyl alcohol	20	U	3.9	20
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	0.66	J	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
Vinyl acetate	2.0	U	0.19	2.0
Vinyl chloride	0.50	U	0.22	0.50
Xylenes, Total	2.0	U	0.28	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95		63 - 129
4-Bromofluorobenzene (Surr)	71		66 - 117
Dibromofluoromethane (Surr)	104		75 - 121
Toluene-d8 (Surr)	76		74 - 115

Analytical Data

Client: Tetra Tech, Inc — Job Number: 240-27038-1

Client Sample ID: **EL-SW01D-071813**

Lab Sample ID: 240-27038-40 — Date Sampled: 07/18/2013 0951
Client Matrix: Water — Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94651	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR6568.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 2333			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 2333				

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	5.0	U	0.67	5.0
1,2-Dibromoethane	1.0	U	0.24	1.0
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-Butanone	5.0	U	0.57	5.0
2-Chloroethyl vinyl ether	10	U	0.99	10
2-Chlorotoluene	1.0	U	0.11	1.0
2-Hexanone	5.0	U	0.41	5.0
4-Chlorotoluene	1.0	U	0.18	1.0
4-Methyl-2-pentanone	5.0	U	0.32	5.0
Acetone	1.8	J	1.1	5.0
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromochloromethane	1.0	U	0.29	1.0
Bromodichloromethane	1.0	U	0.15	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	0.35	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Dibromomethane	1.0	U	0.28	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
Diisopropyl ether	5.0	U	1.5	5.0

Client: Tetra Tech, Inc | Job Number: 240-27038-1

Client Sample ID: **EL-SW01D-071813**

Lab Sample ID:	240-27038-40	Date Sampled:	07/18/2013 0951
Client Matrix:	Water	Date Received:	07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94651	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR6568.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 2333			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 2333				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	1.0	U	0.17	1.0
Ethyl-t-butyl ether (ETBE)	5.0	U	0.11	5.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
Methyl tert-butyl ether	1.0	U	0.17	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
n-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
Tert-amyl-methyl ether (TAME)	5.0	U	0.067	5.0
tert-Butyl alcohol	20	U	3.9	20
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	0.64	J	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
Vinyl acetate	2.0	U	0.19	2.0
Vinyl chloride	0.50	U	0.22	0.50
Xylenes, Total	2.0	U	0.28	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	92		63 - 129
4-Bromofluorobenzene (Surr)	68		66 - 117
Dibromofluoromethane (Surr)	101		75 - 121
Toluene-d8 (Surr)	74		74 - 115

Analytical Data

Client: Tetra Tech, Inc

Job Number: 240-27038-1

Client Sample ID: **MSA-SW37A-071813**

Lab Sample ID: 240-27038-1
Client Matrix: Water

Date Sampled: 07/18/2013 1400
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94518	Instrument ID:	A3UX9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX938159.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/22/2013 1920			Final Weight/Volume:	5 mL
Prep Date:	07/22/2013 1920				

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	5.0	U	0.67	5.0
1,2-Dibromoethane	1.0	U	0.24	1.0
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-Butanone	5.0	U	0.57	5.0
2-Chloroethyl vinyl ether	10	U	0.99	10
2-Chlorotoluene	1.0	U	0.11	1.0
2-Hexanone	5.0	U	0.41	5.0
4-Chlorotoluene	1.0	U	0.18	1.0
4-Methyl-2-pentanone	5.0	U	0.32	5.0
Acetone	5.0	U	1.1	5.0
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromochloromethane	1.0	U	0.29	1.0
Bromodichloromethane	1.0	U	0.15	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	0.65	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Dibromomethane	1.0	U	0.28	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
Diisopropyl ether	5.0	U	1.5	5.0

Analytical Data

Client: Tetra Tech, Inc

Job Number: 240-27038-1

Client Sample ID: **MSA-SW37A-071813**

Lab Sample ID:	240-27038-1	Date Sampled:	07/18/2013 1400
Client Matrix:	Water	Date Received:	07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94518	Instrument ID:	A3UX9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX938159.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/22/2013 1920			Final Weight/Volume:	5 mL
Prep Date:	07/22/2013 1920				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	1.0	U	0.17	1.0
Ethyl-t-butyl ether (ETBE)	5.0	U	0.11	5.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
Methyl tert-butyl ether	1.0	U	0.17	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
n-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
Tert-amyl-methyl ether (TAME)	5.0	U	0.067	5.0
tert-Butyl alcohol	20	U	3.9	20
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	0.50	J	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		0.22	0.50
Xylenes, Total	2.0	U	0.28	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	88		63 - 129
4-Bromofluorobenzene (Surr)	97		66 - 117
Dibromofluoromethane (Surr)	101		75 - 121
Toluene-d8 (Surr)	97		74 - 115

Client: Tetra Tech, Inc

Job Number: 240-27038-1

Client Sample ID: **MSA-SW37B-071813**

Lab Sample ID: 240-27038-2

Client Matrix: Water

Date Sampled: 07/18/2013 1403

Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94518	Instrument ID:	A3UX9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX938160.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/22/2013 1944			Final Weight/Volume:	5 mL
Prep Date:	07/22/2013 1944				

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	5.0	U	0.67	5.0
1,2-Dibromoethane	1.0	U	0.24	1.0
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-Butanone	5.0	U	0.57	5.0
2-Chloroethyl vinyl ether	10	U	0.99	10
2-Chlorotoluene	1.0	U	0.11	1.0
2-Hexanone	5.0	U	0.41	5.0
4-Chlorotoluene	1.0	U	0.18	1.0
4-Methyl-2-pentanone	5.0	U	0.32	5.0
Acetone	5.0	U	1.1	5.0
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromochloromethane	1.0	U	0.29	1.0
Bromodichloromethane	1.0	U	0.15	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	0.44	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Dibromomethane	1.0	U	0.28	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
Diisopropyl ether	5.0	U	1.5	5.0

Client: Tetra Tech, Inc

Job Number: 240-27038-1

Client Sample ID: **MSA-SW37B-071813**

Lab Sample ID: 240-27038-2
Client Matrix: Water

Date Sampled: 07/18/2013 1403
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94518	Instrument ID:	A3UX9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX938160.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/22/2013 1944			Final Weight/Volume:	5 mL
Prep Date:	07/22/2013 1944				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	1.0	U	0.17	1.0
Ethyl-t-butyl ether (ETBE)	5.0	U	0.11	5.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
Methyl tert-butyl ether	1.0	U	0.17	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
n-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
Tert-amyl-methyl ether (TAME)	5.0	U	0.067	5.0
tert-Butyl alcohol	20	U	3.9	20
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	0.64	J	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
Vinyl acetate	2.0	U	0.19	2.0
Vinyl chloride	0.29	J	0.22	0.50
Xylenes, Total	2.0	U	0.28	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	91		63 - 129
4-Bromofluorobenzene (Surr)	98		66 - 117
Dibromofluoromethane (Surr)	97		75 - 121
Toluene-d8 (Surr)	97		74 - 115

Client: Tetra Tech, Inc | Job Number: 240-27038-1

Client Sample ID: **MSA-SW37C-071813**

Lab Sample ID: 240-27038-3 | Date Sampled: 07/18/2013 1408
Client Matrix: Water | Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94518	Instrument ID:	A3UX9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX938161.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/22/2013 2008			Final Weight/Volume:	5 mL
Prep Date:	07/22/2013 2008				

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	5.0	U	0.67	5.0
1,2-Dibromoethane	1.0	U	0.24	1.0
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-Butanone	5.0	U	0.57	5.0
2-Chloroethyl vinyl ether	10	U	0.99	10
2-Chlorotoluene	1.0	U	0.11	1.0
2-Hexanone	5.0	U	0.41	5.0
4-Chlorotoluene	1.0	U	0.18	1.0
4-Methyl-2-pentanone	5.0	U	0.32	5.0
Acetone	5.0	U	1.1	5.0
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromochloromethane	1.0	U	0.29	1.0
Bromodichloromethane	1.0	U	0.15	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	0.53	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Dibromomethane	1.0	U	0.28	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
Diisopropyl ether	5.0	U	1.5	5.0

Client: Tetra Tech, Inc

Job Number: 240-27038-1

Client Sample ID:	**MSA-SW37C-071813**		
Lab Sample ID:	240-27038-3	Date Sampled:	07/18/2013 1408
Client Matrix:	Water	Date Received:	07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94518	Instrument ID:	A3UX9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX938161.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/22/2013 2008			Final Weight/Volume:	5 mL
Prep Date:	07/22/2013 2008				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	1.0	U	0.17	1.0
Ethyl-t-butyl ether (ETBE)	5.0	U	0.11	5.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
Methyl tert-butyl ether	1.0	U	0.17	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
n-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
Tert-amyl-methyl ether (TAME)	5.0	U	0.067	5.0
tert-Butyl alcohol	20	U	3.9	20
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	1.1		0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
Vinyl acetate	2.0	U	0.19	2.0
Vinyl chloride	0.23	J	0.22	0.50
Xylenes, Total	2.0	U	0.28	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	86		63 - 129
4-Bromofluorobenzene (Surr)	95		66 - 117
Dibromofluoromethane (Surr)	100		75 - 121
Toluene-d8 (Surr)	99		74 - 115

Client: Tetra Tech, Inc

Job Number: 240-27038-1

Client Sample ID: **MSA-SW37D-071813**

Lab Sample ID: 240-27038-4

Client Matrix: Water

Date Sampled: 07/18/2013 1415

Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94518	Instrument ID:	A3UX9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX938162.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/22/2013 2032			Final Weight/Volume:	5 mL
Prep Date:	07/22/2013 2032				

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	5.0	U	0.67	5.0
1,2-Dibromoethane	1.0	U	0.24	1.0
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-Butanone	5.0	U	0.57	5.0
2-Chloroethyl vinyl ether	10	U	0.99	10
2-Chlorotoluene	1.0	U	0.11	1.0
2-Hexanone	5.0	U	0.41	5.0
4-Chlorotoluene	1.0	U	0.18	1.0
4-Methyl-2-pentanone	5.0	U	0.32	5.0
Acetone	5.0	U	1.1	5.0
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromochloromethane	1.0	U	0.29	1.0
Bromodichloromethane	1.0	U	0.15	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	0.51	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Dibromomethane	1.0	U	0.28	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
Diisopropyl ether	5.0	U	1.5	5.0

Client: Tetra Tech, Inc

Job Number: 240-27038-1

Client Sample ID: **MSA-SW37D-071813**

Lab Sample ID: 240-27038-4
Client Matrix: Water

Date Sampled: 07/18/2013 1415
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94518	Instrument ID:	A3UX9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX938162.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/22/2013 2032			Final Weight/Volume:	5 mL
Prep Date:	07/22/2013 2032				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	1.0	U	0.17	1.0
Ethyl-t-butyl ether (ETBE)	5.0	U	0.11	5.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
Methyl tert-butyl ether	1.0	U	0.17	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
n-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
Tert-amyl-methyl ether (TAME)	5.0	U	0.067	5.0
tert-Butyl alcohol	20	U	3.9	20
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	0.83	J	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
Vinyl acetate	2.0	U	0.19	2.0
Vinyl chloride	0.29	J	0.22	0.50
Xylenes, Total	2.0	U	0.28	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	92		63 - 129
4-Bromofluorobenzene (Surr)	96		66 - 117
Dibromofluoromethane (Surr)	98		75 - 121
Toluene-d8 (Surr)	97		74 - 115

Client: Tetra Tech, Inc | Job Number: 240-27038-1

Client Sample ID: **MSA-SW38A-071813**

Lab Sample ID: 240-27038-5
Client Matrix: Water

Date Sampled: 07/18/2013 1258
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94518	Instrument ID:	A3UX9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX938163.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/22/2013 2055			Final Weight/Volume:	5 mL
Prep Date:	07/22/2013 2055				

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	5.0	U	0.67	5.0
1,2-Dibromoethane	1.0	U	0.24	1.0
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-Butanone	5.0	U	0.57	5.0
2-Chloroethyl vinyl ether	10	U	0.99	10
2-Chlorotoluene	1.0	U	0.11	1.0
2-Hexanone	5.0	U	0.41	5.0
4-Chlorotoluene	1.0	U	0.18	1.0
4-Methyl-2-pentanone	5.0	U	0.32	5.0
Acetone	5.0	U	1.1	5.0
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromochloromethane	1.0	U	0.29	1.0
Bromodichloromethane	1.0	U	0.15	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	0.48	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Dibromomethane	1.0	U	0.28	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
Diisopropyl ether	5.0	U	1.5	5.0

Client: Tetra Tech, Inc .

Job Number: 240-27038-1

Client Sample ID: **MSA-SW38A-071813**

Lab Sample ID:	240-27038-5	Date Sampled:	07/18/2013 1258
Client Matrix:	Water	Date Received:	07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94518	Instrument ID:	A3UX9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX938163.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/22/2013 2055			Final Weight/Volume:	5 mL
Prep Date:	07/22/2013 2055				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	1.0	U	0.17	1.0
Ethyl-t-butyl ether (ETBE)	5.0	U	0.11	5.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
Methyl tert-butyl ether	1.0	U	0.17	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
n-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
Tert-amyl-methyl ether (TAME)	5.0	U	0.067	5.0
tert-Butyl alcohol	20	U	3.9	20
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	0.84	J	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
Vinyl acetate	2.0	U	0.19	2.0
Vinyl chloride	0.38	J	0.22	0.50
Xylenes, Total	2.0	U	0.28	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	89		63 - 129
4-Bromofluorobenzene (Surr)	100		66 - 117
Dibromofluoromethane (Surr)	99		75 - 121
Toluene-d8 (Surr)	97		74 - 115

Client: Tetra Tech, Inc | Job Number: 240-27038-1

Client Sample ID: **MSA-SW38B-071813**

Lab Sample ID: 240-27038-6
Client Matrix: Water

Date Sampled: 07/18/2013 1302
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94518	Instrument ID:	A3UX9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX938164.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/22/2013 2117			Final Weight/Volume:	5 mL
Prep Date:	07/22/2013 2117				

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	5.0	U	0.67	5.0
1,2-Dibromoethane	1.0	U	0.24	1.0
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-Butanone	5.0	U	0.57	5.0
2-Chloroethyl vinyl ether	10	U	0.99	10
2-Chlorotoluene	1.0	U	0.11	1.0
2-Hexanone	5.0	U	0.41	5.0
4-Chlorotoluene	1.0	U	0.18	1.0
4-Methyl-2-pentanone	5.0	U	0.32	5.0
Acetone	5.0	U	1.1	5.0
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromochloromethane	1.0	U	0.29	1.0
Bromodichloromethane	1.0	U	0.15	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	0.58	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Dibromomethane	1.0	U	0.28	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
Diisopropyl ether	5.0	U	1.5	5.0

Client: Tetra Tech, Inc

Job Number: 240-27038-1

Client Sample ID: **MSA-SW38B-071813**

Lab Sample ID:	240-27038-6	Date Sampled:	07/18/2013 1302
Client Matrix:	Water	Date Received:	07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94518	Instrument ID:	A3UX9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX938164.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/22/2013 2117			Final Weight/Volume:	5 mL
Prep Date:	07/22/2013 2117				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	1.0	U	0.17	1.0
Ethyl-t-butyl ether (ETBE)	5.0	U	0.11	5.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
Methyl tert-butyl ether	1.0	U	0.17	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
n-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
Tert-amyl-methyl ether (TAME)	5.0	U	0.067	5.0
tert-Butyl alcohol	20	U	3.9	20
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	0.94	J	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
Vinyl acetate	2.0	U	0.19	2.0
Vinyl chloride	0.27	J	0.22	0.50
Xylenes, Total	2.0	U	0.28	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93		63 - 129
4-Bromofluorobenzene (Surr)	98		66 - 117
Dibromofluoromethane (Surr)	100		75 - 121
Toluene-d8 (Surr)	97		74 - 115

Client: Tetra Tech, Inc

Job Number: 240-27038-1

Client Sample ID: **MSA-SW38C-071813**

Lab Sample ID: 240-27038-7

Client Matrix: Water

Date Sampled: 07/18/2013 1306

Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94518	Instrument ID:	A3UX9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX938165.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/22/2013 2141			Final Weight/Volume:	5 mL
Prep Date:	07/22/2013 2141				

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	5.0	U	0.67	5.0
1,2-Dibromoethane	1.0	U	0.24	1.0
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-Butanone	5.0	U	0.57	5.0
2-Chloroethyl vinyl ether	10	U	0.99	10
2-Chlorotoluene	1.0	U	0.11	1.0
2-Hexanone	5.0	U	0.41	5.0
4-Chlorotoluene	1.0	U	0.18	1.0
4-Methyl-2-pentanone	5.0	U	0.32	5.0
Acetone	5.0	U	1.1	5.0
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromochloromethane	1.0	U	0.29	1.0
Bromodichloromethane	1.0	U	0.15	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	0.56	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Dibromomethane	1.0	U	0.28	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
Diisopropyl ether	5.0	U	1.5	5.0

Client: Tetra Tech, Inc   Job Number: 240-27038-1

Client Sample ID: **MSA-SW38C-071813**

Lab Sample ID:	240-27038-7	Date Sampled:	07/18/2013 1306
Client Matrix:	Water	Date Received:	07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94518	Instrument ID:	A3UX9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX938165.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/22/2013 2141			Final Weight/Volume:	5 mL
Prep Date:	07/22/2013 2141				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	1.0	U	0.17	1.0
Ethyl-t-butyl ether (ETBE)	5.0	U	0.11	5.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
Methyl tert-butyl ether	1.0	U	0.17	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
n-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
Tert-amyl-methyl ether (TAME)	5.0	U	0.067	5.0
tert-Butyl alcohol	20	U	3.9	20
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	1.1		0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
Vinyl acetate	2.0	U	0.19	2.0
Vinyl chloride	0.24	J	0.22	0.50
Xylenes, Total	2.0	U	0.28	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	92		63 - 129
4-Bromofluorobenzene (Surr)	96		66 - 117
Dibromofluoromethane (Surr)	101		75 - 121
Toluene-d8 (Surr)	98		74 - 115

Analytical Data

Client: Tetra Tech, Inc

Job Number: 240-27038-1

Client Sample ID: **MSA-SW38D-071813**

Lab Sample ID: 240-27038-8
Client Matrix: Water

Date Sampled: 07/18/2013 1310
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94518	Instrument ID:	A3UX9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX938166.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/22/2013 2205			Final Weight/Volume:	5 mL
Prep Date:	07/22/2013 2205				

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	5.0	U	0.67	5.0
1,2-Dibromoethane	1.0	U	0.24	1.0
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-Butanone	5.0	U	0.57	5.0
2-Chloroethyl vinyl ether	10	U	0.99	10
2-Chlorotoluene	1.0	U	0.11	1.0
2-Hexanone	5.0	U	0.41	5.0
4-Chlorotoluene	1.0	U	0.18	1.0
4-Methyl-2-pentanone	5.0	U	0.32	5.0
Acetone	5.0	U	1.1	5.0
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromochloromethane	1.0	U	0.29	1.0
Bromodichloromethane	1.0	U	0.15	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	0.56	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Dibromomethane	1.0	U	0.28	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
Diisopropyl ether	5.0	U	1.5	5.0

Client: Tetra Tech, Inc | Job Number: 240-27038-1

Client Sample ID: **MSA-SW38D-071813**

Lab Sample ID: 240-27038-8
Client Matrix: Water

Date Sampled: 07/18/2013 1310
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94518	Instrument ID:	A3UX9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX938166.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/22/2013 2205			Final Weight/Volume:	5 mL
Prep Date:	07/22/2013 2205				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	1.0	U	0.17	1.0
Ethyl-t-butyl ether (ETBE)	5.0	U	0.11	5.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
Methyl tert-butyl ether	1.0	U	0.17	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
n-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
Tert-amyl-methyl ether (TAME)	5.0	U	0.067	5.0
tert-Butyl alcohol	20	U	3.9	20
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	1.5		0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
Vinyl acetate	2.0	U	0.19	2.0
Vinyl chloride	0.23	J	0.22	0.50
Xylenes, Total	2.0	U	0.28	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	89		63 - 129
4-Bromofluorobenzene (Surr)	95		66 - 117
Dibromofluoromethane (Surr)	101		75 - 121
Toluene-d8 (Surr)	95		74 - 115

Client: Tetra Tech, Inc | Job Number: 240-27038-1

Client Sample ID: **MSA-SW39A-071813**

Lab Sample ID: 240-27038-9
Client Matrix: Water

Date Sampled: 07/18/2013 1015
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94518	Instrument ID:	A3UX9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX938167.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/22/2013 2229			Final Weight/Volume:	5 mL
Prep Date:	07/22/2013 2229				

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	5.0	U	0.67	5.0
1,2-Dibromoethane	1.0	U	0.24	1.0
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-Butanone	5.0	U	0.57	5.0
2-Chloroethyl vinyl ether	10	U	0.99	10
2-Chlorotoluene	1.0	U	0.11	1.0
2-Hexanone	5.0	U	0.41	5.0
4-Chlorotoluene	1.0	U	0.18	1.0
4-Methyl-2-pentanone	5.0	U	0.32	5.0
Acetone	5.0	U	1.1	5.0
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromochloromethane	1.0	U	0.29	1.0
Bromodichloromethane	1.0	U	0.15	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
Dibromochloromethane	1.0	U	0.18	1.0
Dibromomethane	1.0	U	0.28	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
Diisopropyl ether	5.0	U	1.5	5.0

Client: Tetra Tech, Inc Job Number: 240-27038-1

Client Sample ID: **MSA-SW39A-071813**

Lab Sample ID: 240-27038-9 Date Sampled: 07/18/2013 1015
Client Matrix: Water Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94518	Instrument ID:	A3UX9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX938167.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/22/2013 2229			Final Weight/Volume:	5 mL
Prep Date:	07/22/2013 2229				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	1.0	U	0.17	1.0
Ethyl-t-butyl ether (ETBE)	5.0	U	0.11	5.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
Methyl tert-butyl ether	1.0	U	0.17	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
n-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
Tert-amyl-methyl ether (TAME)	5.0	U	0.067	5.0
tert-Butyl alcohol	20	U	3.9	20
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	0.50	U	0.22	0.50
Xylenes, Total	2.0	U	0.28	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	92		63 - 129
4-Bromofluorobenzene (Surr)	97		66 - 117
Dibromofluoromethane (Surr)	103		75 - 121
Toluene-d8 (Surr)	96		74 - 115

Client: Tetra Tech, Inc

Job Number: 240-27038-1

Client Sample ID: **MSA-SW39B-071813**

Lab Sample ID: 240-27038-10

Client Matrix: Water

Date Sampled: 07/18/2013 1021

Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94518	Instrument ID:	A3UX9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX938168.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/22/2013 2251			Final Weight/Volume:	5 mL
Prep Date:	07/22/2013 2251				

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	5.0	U	0.67	5.0
1,2-Dibromoethane	1.0	U	0.24	1.0
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-Butanone	5.0	U	0.57	5.0
2-Chloroethyl vinyl ether	10	U	0.99	10
2-Chlorotoluene	1.0	U	0.11	1.0
2-Hexanone	5.0	U	0.41	5.0
4-Chlorotoluene	1.0	U	0.18	1.0
4-Methyl-2-pentanone	5.0	U	0.32	5.0
Acetone	5.0	U	1.1	5.0
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromochloromethane	1.0	U	0.29	1.0
Bromodichloromethane	1.0	U	0.15	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
Dibromochloromethane	1.0	U	0.18	1.0
Dibromomethane	1.0	U	0.28	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
Diisopropyl ether	5.0	U	1.5	5.0

Analytical Data

Client: Tetra Tech, Inc

Job Number: 240-27038-1

Client Sample ID: **MSA-SW39B-071813**

Lab Sample ID: 240-27038-10
Client Matrix: Water

Date Sampled: 07/18/2013 1021
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94518	Instrument ID:	A3UX9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX938168.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/22/2013 2251			Final Weight/Volume:	5 mL
Prep Date:	07/22/2013 2251				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	1.0	U	0.17	1.0
Ethyl-t-butyl ether (ETBE)	5.0	U	0.11	5.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
Methyl tert-butyl ether	1.0	U	0.17	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
n-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
Tert-amyl-methyl ether (TAME)	5.0	U	0.067	5.0
tert-Butyl alcohol	20	U	3.9	20
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	0.50	U	0.22	0.50
Xylenes, Total	2.0	U	0.28	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	92		63 - 129
4-Bromofluorobenzene (Surr)	93		66 - 117
Dibromofluoromethane (Surr)	98		75 - 121
Toluene-d8 (Surr)	100		74 - 115

Analytical Data

Client: Tetra Tech, Inc

Job Number: 240-27038-1

Client Sample ID: **MSA-SW39C-071813**

Lab Sample ID: 240-27038-11
Client Matrix: Water

Date Sampled: 07/18/2013 1029
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94518	Instrument ID:	A3UX9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX938169.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/22/2013 2314			Final Weight/Volume:	5 mL
Prep Date:	07/22/2013 2314				

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	5.0	U	0.67	5.0
1,2-Dibromoethane	1.0	U	0.24	1.0
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-Butanone	5.0	U	0.57	5.0
2-Chloroethyl vinyl ether	10	U	0.99	10
2-Chlorotoluene	1.0	U	0.11	1.0
2-Hexanone	5.0	U	0.41	5.0
4-Chlorotoluene	1.0	U	0.18	1.0
4-Methyl-2-pentanone	5.0	U	0.32	5.0
Acetone	5.0	U	1.1	5.0
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromochloromethane	1.0	U	0.29	1.0
Bromodichloromethane	1.0	U	0.15	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
Dibromochloromethane	1.0	U	0.18	1.0
Dibromomethane	1.0	U	0.28	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
Diisopropyl ether	5.0	U	1.5	5.0

Analytical Data

Client: Tetra Tech, Inc

Job Number: 240-27038-1

Client Sample ID: **MSA-SW39C-071813**

Lab Sample ID: 240-27038-11
Client Matrix: Water

Date Sampled: 07/18/2013 1029
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94518	Instrument ID:	A3UX9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX938169.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/22/2013 2314			Final Weight/Volume:	5 mL
Prep Date:	07/22/2013 2314				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	1.0	U	0.17	1.0
Ethyl-t-butyl ether (ETBE)	5.0	U	0.11	5.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
Methyl tert-butyl ether	1.0	U	0.17	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
n-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
Tert-amyl-methyl ether (TAME)	5.0	U	0.067	5.0
tert-Butyl alcohol	20	U	3.9	20
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	0.26	J	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
Vinyl acetate	2.0	U	0.19	2.0
Vinyl chloride	0.50	U	0.22	0.50
Xylenes, Total	2.0	U	0.28	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	91		63 - 129
4-Bromofluorobenzene (Surr)	95		66 - 117
Dibromofluoromethane (Surr)	101		75 - 121
Toluene-d8 (Surr)	100		74 - 115

Client: Tetra Tech, Inc

Job Number: 240-27038-1

Client Sample ID: **MSA-SW39D-071813**

Lab Sample ID: 240-27038-12
Client Matrix: Water

Date Sampled: 07/18/2013 1034
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94518	Instrument ID:	A3UX9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX938170.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/22/2013 2337			Final Weight/Volume:	5 mL
Prep Date:	07/22/2013 2337				

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	5.0	U	0.67	5.0
1,2-Dibromoethane	1.0	U	0.24	1.0
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-Butanone	5.0	U	0.57	5.0
2-Chloroethyl vinyl ether	10	U	0.99	10
2-Chlorotoluene	1.0	U	0.11	1.0
2-Hexanone	5.0	U	0.41	5.0
4-Chlorotoluene	1.0	U	0.18	1.0
4-Methyl-2-pentanone	5.0	U	0.32	5.0
Acetone	5.0	U	1.1	5.0
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromochloromethane	1.0	U	0.29	1.0
Bromodichloromethane	1.0	U	0.15	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
Dibromochloromethane	1.0	U	0.18	1.0
Dibromomethane	1.0	U	0.28	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
Diisopropyl ether	5.0	U	1.5	5.0

Client: Tetra Tech, Inc | Job Number: 240-27038-1

Client Sample ID: **MSA-SW39D-071813**

Lab Sample ID: 240-27038-12
Client Matrix: Water

Date Sampled: 07/18/2013 1034
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94518	Instrument ID:	A3UX9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX938170.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/22/2013 2337			Final Weight/Volume:	5 mL
Prep Date:	07/22/2013 2337				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	1.0	U	0.17	1.0
Ethyl-t-butyl ether (ETBE)	5.0	U	0.11	5.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
Methyl tert-butyl ether	1.0	U	0.17	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
n-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
Tert-amyl-methyl ether (TAME)	5.0	U	0.067	5.0
tert-Butyl alcohol	20	U	3.9	20
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	0.24	J	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
Vinyl acetate	2.0	U	0.19	2.0
Vinyl chloride	0.50	U	0.22	0.50
Xylenes, Total	2.0	U	0.28	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93		63 - 129
4-Bromofluorobenzene (Surr)	95		66 - 117
Dibromofluoromethane (Surr)	99		75 - 121
Toluene-d8 (Surr)	97		74 - 115

Analytical Data

Client: Tetra Tech, Inc

Job Number: 240-27038-1

Client Sample ID: **MSA-SW40A-071813**

Lab Sample ID:	240-27038-13	Date Sampled:	07/18/2013 1316
Client Matrix:	Water	Date Received:	07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94518	Instrument ID:	A3UX9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX938171.D
Dilution:	1.0 3			Initial Weight/Volume:	5 mL
Analysis Date:	07/2~~2~~/2013 ~~0000~~ midnight			Final Weight/Volume:	5 mL
Prep Date:	07/2~~2~~/2013 ~~0000~~ 3				

12 am MM 8/6/13

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	5.0	U	0.67	5.0
1,2-Dibromoethane	1.0	U	0.24	1.0
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-Butanone	5.0	U	0.57	5.0
2-Chloroethyl vinyl ether	10	U	0.99	10
2-Chlorotoluene	1.0	U	0.11	1.0
2-Hexanone	5.0	U	0.41	5.0
4-Chlorotoluene	1.0	U	0.18	1.0
4-Methyl-2-pentanone	5.0	U	0.32	5.0
Acetone	5.0	U	1.1	5.0
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromochloromethane	1.0	U	0.29	1.0
Bromodichloromethane	1.0	U	0.15	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	0.50	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Dibromomethane	1.0	U	0.28	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
Diisopropyl ether	5.0	U	1.5	5.0

Analytical Data

Client: Tetra Tech, Inc | Job Number: 240-27038-1

Client Sample ID: **MSA-SW40A-071813**

Lab Sample ID:	240-27038-13	Date Sampled:	07/18/2013 1316
Client Matrix:	Water	Date Received:	07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94518	Instrument ID:	A3UX9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX938171.D
Dilution:	1.0 3			Initial Weight/Volume:	5 mL
Analysis Date:	07/22/2013 0000 midnight			Final Weight/Volume:	5 mL
Prep Date:	07/22/2013 0000 8/6/13				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	1.0	U	0.17	1.0
Ethyl-t-butyl ether (ETBE)	5.0	U	0.11	5.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
Methyl tert-butyl ether	1.0	U	0.17	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
n-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
Tert-amyl-methyl ether (TAME)	5.0	U	0.067	5.0
tert-Butyl alcohol	20	U	3.9	20
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	0.63	J	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
Vinyl acetate	2.0	U	0.19	2.0
Vinyl chloride	0.33	J	0.22	0.50
Xylenes, Total	2.0	U	0.28	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	90		63 - 129
4-Bromofluorobenzene (Surr)	92		66 - 117
Dibromofluoromethane (Surr)	100		75 - 121
Toluene-d8 (Surr)	96		74 - 115

Client: Tetra Tech, Inc | Job Number: 240-27038-1

Client Sample ID: **MSA-SW40B-071813**

Lab Sample ID:	240-27038-14	Date Sampled:	07/18/2013 1321
Client Matrix:	Water	Date Received:	07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94518	Instrument ID:	A3UX9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX938172.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 0023			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 0023				

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	5.0	U	0.67	5.0
1,2-Dibromoethane	1.0	U	0.24	1.0
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-Butanone	5.0	U	0.57	5.0
2-Chloroethyl vinyl ether	10	U	0.99	10
2-Chlorotoluene	1.0	U	0.11	1.0
2-Hexanone	5.0	U	0.41	5.0
4-Chlorotoluene	1.0	U	0.18	1.0
4-Methyl-2-pentanone	5.0	U	0.32	5.0
Acetone	5.0	U	1.1	5.0
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromochloromethane	1.0	U	0.29	1.0
Bromodichloromethane	1.0	U	0.15	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	0.55	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Dibromomethane	1.0	U	0.28	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
Diisopropyl ether	5.0	U	1.5	5.0

Client: Tetra Tech, Inc

Job Number: 240-27038-1

Client Sample ID: **MSA-SW40B-071813**

Lab Sample ID: 240-27038-14
Client Matrix: Water

Date Sampled: 07/18/2013 1321
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94518	Instrument ID:	A3UX9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX938172.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 0023			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 0023				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	1.0	U	0.17	1.0
Ethyl-t-butyl ether (ETBE)	5.0	U	0.11	5.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
Methyl tert-butyl ether	1.0	U	0.17	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
n-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
Tert-amyl-methyl ether (TAME)	5.0	U	0.067	5.0
tert-Butyl alcohol	20	U	3.9	20
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	1.2		0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
Vinyl acetate	2.0	U	0.19	2.0
Vinyl chloride	0.32	J	0.22	0.50
Xylenes, Total	2.0	U	0.28	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	87		63 - 129
4-Bromofluorobenzene (Surr)	93		66 - 117
Dibromofluoromethane (Surr)	96		75 - 121
Toluene-d8 (Surr)	96		74 - 115

Client: Tetra Tech, Inc | Job Number: 240-27038-1

Client Sample ID: **MSA-SW40C-071813**

Lab Sample ID: 240-27038-15
Client Matrix: Water

Date Sampled: 07/18/2013 1326
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94518	Instrument ID:	A3UX9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX938173.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 0046			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 0046				

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	5.0	U	0.67	5.0
1,2-Dibromoethane	1.0	U	0.24	1.0
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-Butanone	5.0	U	0.57	5.0
2-Chloroethyl vinyl ether	10	U	0.99	10
2-Chlorotoluene	1.0	U	0.11	1.0
2-Hexanone	5.0	U	0.41	5.0
4-Chlorotoluene	1.0	U	0.18	1.0
4-Methyl-2-pentanone	5.0	U	0.32	5.0
Acetone	5.0	U	1.1	5.0
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromochloromethane	1.0	U	0.29	1.0
Bromodichloromethane	1.0	U	0.15	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	0.38	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Dibromomethane	1.0	U	0.28	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
Diisopropyl ether	5.0	U	1.5	5.0

Client: Tetra Tech, Inc

Job Number: 240-27038-1

Client Sample ID: **MSA-SW40C-071813**

Lab Sample ID: 240-27038-15
Client Matrix: Water

Date Sampled: 07/18/2013 1326
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94518	Instrument ID:	A3UX9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX938173.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 0046			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 0046				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	1.0	U	0.17	1.0
Ethyl-t-butyl ether (ETBE)	5.0	U	0.11	5.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
Methyl tert-butyl ether	1.0	U	0.17	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
n-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
Tert-amyl-methyl ether (TAME)	5.0	U	0.067	5.0
tert-Butyl alcohol	20	U	3.9	20
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	1.1		0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
Vinyl acetate	2.0	U	0.19	2.0
Vinyl chloride	0.24	J	0.22	0.50
Xylenes, Total	2.0	U	0.28	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94		63 - 129
4-Bromofluorobenzene (Surr)	95		66 - 117
Dibromofluoromethane (Surr)	99		75 - 121
Toluene-d8 (Surr)	99		74 - 115

Analytical Data

Client: Tetra Tech, Inc

Job Number: 240-27038-1

Client Sample ID: **MSA-SW40D-071813**

Lab Sample ID: 240-27038-16
Client Matrix: Water

Date Sampled: 07/18/2013 1332
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94518	Instrument ID:	A3UX9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX938174.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 0109			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 0109				

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	5.0	U	0.67	5.0
1,2-Dibromoethane	1.0	U	0.24	1.0
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-Butanone	5.0	U	0.57	5.0
2-Chloroethyl vinyl ether	10	U	0.99	10
2-Chlorotoluene	1.0	U	0.11	1.0
2-Hexanone	5.0	U	0.41	5.0
4-Chlorotoluene	1.0	U	0.18	1.0
4-Methyl-2-pentanone	5.0	U	0.32	5.0
Acetone	5.0	U	1.1	5.0
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromochloromethane	1.0	U	0.29	1.0
Bromodichloromethane	1.0	U	0.15	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	0.38	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Dibromomethane	1.0	U	0.28	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
Diisopropyl ether	5.0	U	1.5	5.0

Client: Tetra Tech, Inc | Job Number: 240-27038-1

Client Sample ID: **MSA-SW40D-071813**

Lab Sample ID: 240-27038-16
Client Matrix: Water

Date Sampled: 07/18/2013 1332
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94518	Instrument ID:	A3UX9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX938174.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 0109			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 0109				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	1.0	U	0.17	1.0
Ethyl-t-butyl ether (ETBE)	5.0	U	0.11	5.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
Methyl tert-butyl ether	1.0	U	0.17	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
n-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
Tert-amyl-methyl ether (TAME)	5.0	U	0.067	5.0
tert-Butyl alcohol	20	U	3.9	20
tert-Butylbenzene	1.0	U	0.13	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	0.28	J	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	0.56	J	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
Vinyl acetate	2.0	U	0.19	2.0
Vinyl chloride	0.50	U	0.22	0.50
Xylenes, Total	2.0	U	0.28	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	89		63 - 129
4-Bromofluorobenzene (Surr)	94		66 - 117
Dibromofluoromethane (Surr)	100		75 - 121
Toluene-d8 (Surr)	99		74 - 115

Analytical Data

Client: Tetra Tech, Inc | Job Number: 240-27038-1

Client Sample ID: **MSA-SW41A-071813**

Lab Sample ID: 240-27038-17
Client Matrix: Water

Date Sampled: 07/18/2013 1241
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94518	Instrument ID:	A3UX9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX938175.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 0132			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 0132				

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	5.0	U	0.67	5.0
1,2-Dibromoethane	1.0	U	0.24	1.0
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-Butanone	5.0	U	0.57	5.0
2-Chloroethyl vinyl ether	10	U	0.99	10
2-Chlorotoluene	1.0	U	0.11	1.0
2-Hexanone	5.0	U	0.41	5.0
4-Chlorotoluene	1.0	U	0.18	1.0
4-Methyl-2-pentanone	5.0	U	0.32	5.0
Acetone	5.0	U	1.1	5.0
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromochloromethane	1.0	U	0.29	1.0
Bromodichloromethane	1.0	U	0.15	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	1.1		0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Dibromomethane	1.0	U	0.28	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
Diisopropyl ether	5.0	U	1.5	5.0

Client: Tetra Tech, Inc | Job Number: 240-27038-1

Client Sample ID: **MSA-SW41A-071813**

Lab Sample ID: 240-27038-17
Client Matrix: Water

Date Sampled: 07/18/2013 1241
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94518	Instrument ID:	A3UX9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX938175.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 0132			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 0132				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	1.0	U	0.17	1.0
Ethyl-t-butyl ether (ETBE)	5.0	U	0.11	5.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
Methyl tert-butyl ether	1.0	U	0.17	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
n-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
Tert-amyl-methyl ether (TAME)	5.0	U	0.067	5.0
tert-Butyl alcohol	20	U	3.9	20
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	1.7		0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
Vinyl acetate	2.0	U	0.19	2.0
Vinyl chloride	0.37	J	0.22	0.50
Xylenes, Total	2.0	U	0.28	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94		63 - 129
4-Bromofluorobenzene (Surr)	89		66 - 117
Dibromofluoromethane (Surr)	102		75 - 121
Toluene-d8 (Surr)	96		74 - 115

Client: Tetra Tech, Inc

Job Number: 240-27038-1

Client Sample ID: **MSA-SW41B-071813**

Lab Sample ID:	240-27038-18	Date Sampled:	07/18/2013 1245
Client Matrix:	Water	Date Received:	07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94518	Instrument ID:	A3UX9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX938176.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 0155			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 0155				

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	5.0	U	0.67	5.0
1,2-Dibromoethane	1.0	U	0.24	1.0
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-Butanone	5.0	U	0.57	5.0
2-Chloroethyl vinyl ether	10	U	0.99	10
2-Chlorotoluene	1.0	U	0.11	1.0
2-Hexanone	5.0	U	0.41	5.0
4-Chlorotoluene	1.0	U	0.18	1.0
4-Methyl-2-pentanone	5.0	U	0.32	5.0
Acetone	5.0	U	1.1	5.0
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromochloromethane	1.0	U	0.29	1.0
Bromodichloromethane	1.0	U	0.15	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	0.51	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Dibromomethane	1.0	U	0.28	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
Diisopropyl ether	5.0	U	1.5	5.0

Analytical Data

Client: Tetra Tech, Inc

Job Number: 240-27038-1

Client Sample ID: **MSA-SW41B-071813**

Lab Sample ID: 240-27038-18
Client Matrix: Water

Date Sampled: 07/18/2013 1245
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94518	Instrument ID:	A3UX9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX938176.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 0155			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 0155				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	1.0	U	0.17	1.0
Ethyl-t-butyl ether (ETBE)	5.0	U	0.11	5.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
Methyl tert-butyl ether	1.0	U	0.17	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
n-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
Tert-amyl-methyl ether (TAME)	5.0	U	0.067	5.0
tert-Butyl alcohol	20	U	3.9	20
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	1.1		0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
Vinyl acetate	2.0	U	0.19	2.0
Vinyl chloride	0.33	J	0.22	0.50
Xylenes, Total	2.0	U	0.28	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94		63 - 129
4-Bromofluorobenzene (Surr)	94		66 - 117
Dibromofluoromethane (Surr)	99		75 - 121
Toluene-d8 (Surr)	100		74 - 115

Analytical Data

Client: Tetra Tech, Inc

Job Number: 240-27038-1

Client Sample ID: **MSA-SW41C-071813**

Lab Sample ID: 240-27038-19
Client Matrix: Water

Date Sampled: 07/18/2013 1249
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94518	Instrument ID:	A3UX9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX938177.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 0218			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 0218				

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	5.0	U	0.67	5.0
1,2-Dibromoethane	1.0	U	0.24	1.0
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-Butanone	5.0	U	0.57	5.0
2-Chloroethyl vinyl ether	10	U	0.99	10
2-Chlorotoluene	1.0	U	0.11	1.0
2-Hexanone	5.0	U	0.41	5.0
4-Chlorotoluene	1.0	U	0.18	1.0
4-Methyl-2-pentanone	5.0	U	0.32	5.0
Acetone	5.0	U	1.1	5.0
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromochloromethane	1.0	U	0.29	1.0
Bromodichloromethane	1.0	U	0.15	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	0.53	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Dibromomethane	1.0	U	0.28	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
Diisopropyl ether	5.0	U	1.5	5.0

Analytical Data

Client: Tetra Tech, Inc | Job Number: 240-27038-1

Client Sample ID: **MSA-SW41C-071813**

Lab Sample ID: 240-27038-19
Client Matrix: Water

Date Sampled: 07/18/2013 1249
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94518	Instrument ID:	A3UX9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX938177.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 0218			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 0218				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	1.0	U	0.17	1.0
Ethyl-t-butyl ether (ETBE)	5.0	U	0.11	5.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
Methyl tert-butyl ether	1.0	U	0.17	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
n-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
Tert-amyl-methyl ether (TAME)	5.0	U	0.067	5.0
tert-Butyl alcohol	20	U	3.9	20
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	0.93	J	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
Vinyl acetate	2.0	U	0.19	2.0
Vinyl chloride	0.22	J	0.22	0.50
Xylenes, Total	2.0	U	0.28	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94		63 - 129
4-Bromofluorobenzene (Surr)	94		66 - 117
Dibromofluoromethane (Surr)	98		75 - 121
Toluene-d8 (Surr)	99		74 - 115

Client: Tetra Tech, Inc | Job Number: 240-27038-1

Client Sample ID: **MSA-SW41D-071813**

Lab Sample ID: 240-27038-20
Client Matrix: Water

Date Sampled: 07/18/2013 1252
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94518	Instrument ID:	A3UX9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX938178.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 0241			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 0241				

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	0.17	J	0.12	1.0
1,2-Dibromo-3-Chloropropane	5.0	U	0.67	5.0
1,2-Dibromoethane	1.0	U	0.24	1.0
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-Butanone	5.0	U	0.57	5.0
2-Chloroethyl vinyl ether	10	U	0.99	10
2-Chlorotoluene	1.0	U	0.11	1.0
2-Hexanone	5.0	U	0.41	5.0
4-Chlorotoluene	1.0	U	0.18	1.0
4-Methyl-2-pentanone	5.0	U	0.32	5.0
Acetone	5.0	U	1.1	5.0
Benzene	0.19	J	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromochloromethane	1.0	U	0.29	1.0
Bromodichloromethane	1.0	U	0.15	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	0.49	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Dibromomethane	1.0	U	0.28	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
Diisopropyl ether	5.0	U	1.5	5.0

Client: Tetra Tech, Inc | Job Number: 240-27038-1

Client Sample ID: **MSA-SW41D-071813**

Lab Sample ID:	240-27038-20	Date Sampled:	07/18/2013 1252
Client Matrix:	Water	Date Received:	07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94518	Instrument ID:	A3UX9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UX938178.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 0241			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 0241				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	1.0	U	0.17	1.0
Ethyl-t-butyl ether (ETBE)	5.0	U	0.11	5.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
Methyl tert-butyl ether	1.0	U	0.17	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	0.42	J	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
n-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	0.21	J	0.14	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
Tert-amyl-methyl ether (TAME)	5.0	U	0.067	5.0
tert-Butyl alcohol	20	U	3.9	20
tert-Butylbenzene	1.0	U	0.13	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	0.63	J	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	0.85	J	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
Vinyl acetate	2.0	U	0.19	2.0
Vinyl chloride	0.24	J	0.22	0.50
Xylenes, Total	0.63	J	0.28	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	92		63 - 129
4-Bromofluorobenzene (Surr)	95		66 - 117
Dibromofluoromethane (Surr)	98		75 - 121
Toluene-d8 (Surr)	96		74 - 115

Client: Tetra Tech, Inc

Job Number: 240-27038-1

Client Sample ID: **MSA-SW42A-071813**

Lab Sample ID: 240-27038-21
Client Matrix: Water

Date Sampled: 07/18/2013 1337
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94651	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR6549.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 1629			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 1629				

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	5.0	U	0.67	5.0
1,2-Dibromoethane	1.0	U	0.24	1.0
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-Butanone	5.0	U	0.57	5.0
2-Chloroethyl vinyl ether	10	U	0.99	10
2-Chlorotoluene	1.0	U	0.11	1.0
2-Hexanone	5.0	U	0.41	5.0
4-Chlorotoluene	1.0	U	0.18	1.0
4-Methyl-2-pentanone	5.0	U	0.32	5.0
Acetone	5.0	U	1.1	5.0
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromochloromethane	1.0	U	0.29	1.0
Bromodichloromethane	1.0	U	0.15	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	0.46	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Dibromomethane	1.0	U	0.28	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
Diisopropyl ether	5.0	U	1.5	5.0

Client: Tetra Tech, Inc

Job Number: 240-27038-1

Client Sample ID: **MSA-SW42A-071813**

Lab Sample ID: 240-27038-21
Client Matrix: Water

Date Sampled: 07/18/2013 1337
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94651	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR6549.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 1629			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 1629				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	1.0	U	0.17	1.0
Ethyl-t-butyl ether (ETBE)	5.0	U	0.11	5.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
Methyl tert-butyl ether	1.0	U	0.17	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
n-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
Tert-amyl-methyl ether (TAME)	5.0	U	0.067	5.0
tert-Butyl alcohol	20	U	3.9	20
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	0.68	J	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
Vinyl acetate	2.0	U	0.19	2.0
Vinyl chloride	0.36	J	0.22	0.50
Xylenes, Total	2.0	U	0.28	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	91		63 - 129
4-Bromofluorobenzene (Surr)	78		66 - 117
Dibromofluoromethane (Surr)	102		75 - 121
Toluene-d8 (Surr)	80		74 - 115

Client: Tetra Tech, Inc

Job Number: 240-27038-1

Client Sample ID: **MSA-SW42B-071813**

Lab Sample ID: 240-27038-22
Client Matrix: Water

Date Sampled: 07/18/2013 1342
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94651	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR6550.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 1652			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 1652				

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	5.0	U	0.67	5.0
1,2-Dibromoethane	1.0	U	0.24	1.0
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-Butanone	5.0	U	0.57	5.0
2-Chloroethyl vinyl ether	10	U	0.99	10
2-Chlorotoluene	1.0	U	0.11	1.0
2-Hexanone	5.0	U	0.41	5.0
4-Chlorotoluene	1.0	U	0.18	1.0
4-Methyl-2-pentanone	5.0	U	0.32	5.0
Acetone	2.8	J	1.1	5.0
Benzene	0.13	J	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromochloromethane	1.0	U	0.29	1.0
Bromodichloromethane	1.0	U	0.15	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	0.51	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Dibromomethane	1.0	U	0.28	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
Diisopropyl ether	5.0	U	1.5	5.0

Analytical Data

Client: Tetra Tech, Inc Job Number: 240-27038-1

Client Sample ID: **MSA-SW42B-071813**

Lab Sample ID: 240-27038-22 Date Sampled: 07/18/2013 1342
Client Matrix: Water Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94651	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR6550.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 1652			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 1652				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	1.0	U	0.17	1.0
Ethyl-t-butyl ether (ETBE)	5.0	U	0.11	5.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
Methyl tert-butyl ether	1.0	U	0.17	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
n-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
Tert-amyl-methyl ether (TAME)	5.0	U	0.067	5.0
tert-Butyl alcohol	20	U	3.9	20
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	0.91	J	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
Vinyl acetate	2.0	U	0.19	2.0
Vinyl chloride	0.30	J	0.22	0.50
Xylenes, Total	2.0	U	0.28	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	87		63 - 129
4-Bromofluorobenzene (Surr)	69		66 - 117
Dibromofluoromethane (Surr)	96		75 - 121
Toluene-d8 (Surr)	76		74 - 115

Client: Tetra Tech, Inc Job Number: 240-27038-1

Client Sample ID: **MSA-SW42C-071813**

Lab Sample ID:	240-27038-23	Date Sampled:	07/18/2013 1347
Client Matrix:	Water	Date Received:	07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94651	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR6551.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 1714			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 1714				

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	5.0	U	0.67	5.0
1,2-Dibromoethane	1.0	U	0.24	1.0
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-Butanone	5.0	U	0.57	5.0
2-Chloroethyl vinyl ether	10	U	0.99	10
2-Chlorotoluene	1.0	U	0.11	1.0
2-Hexanone	5.0	U	0.41	5.0
4-Chlorotoluene	1.0	U	0.18	1.0
4-Methyl-2-pentanone	5.0	U	0.32	5.0
Acetone	2.5	J	1.1	5.0
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromochloromethane	1.0	U	0.29	1.0
Bromodichloromethane	1.0	U	0.15	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	0.59	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Dibromomethane	1.0	U	0.28	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
Diisopropyl ether	5.0	U	1.5	5.0

Analytical Data

Client: Tetra Tech, Inc

Job Number: 240-27038-1

Client Sample ID: **MSA-SW42C-071813**

Lab Sample ID: 240-27038-23
Client Matrix: Water

Date Sampled: 07/18/2013 1347
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94651	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR6551.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 1714			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 1714				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	1.0	U	0.17	1.0
Ethyl-t-butyl ether (ETBE)	5.0	U	0.11	5.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
Methyl tert-butyl ether	1.0	U	0.17	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
n-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
Tert-amyl-methyl ether (TAME)	5.0	U	0.067	5.0
tert-Butyl alcohol	20	U	3.9	20
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	1.3		0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
Vinyl acetate	2.0	U	0.19	2.0
Vinyl chloride	0.31	J	0.22	0.50
Xylenes, Total	2.0	U	0.28	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	91		63 - 129
4-Bromofluorobenzene (Surr)	73		66 - 117
Dibromofluoromethane (Surr)	101		75 - 121
Toluene-d8 (Surr)	79		74 - 115

Client: Tetra Tech, Inc

Job Number: 240-27038-1

Client Sample ID: **MSA-SW42D-071813**

Lab Sample ID: 240-27038-24
Client Matrix: Water

Date Sampled: 07/18/2013 1351
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94651	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR6552.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 1736			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 1736				

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	5.0	U	0.67	5.0
1,2-Dibromoethane	1.0	U	0.24	1.0
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-Butanone	5.0	U	0.57	5.0
2-Chloroethyl vinyl ether	10	U	0.99	10
2-Chlorotoluene	1.0	U	0.11	1.0
2-Hexanone	5.0	U	0.41	5.0
4-Chlorotoluene	1.0	U	0.18	1.0
4-Methyl-2-pentanone	5.0	U	0.32	5.0
Acetone	5.0	U	1.1	5.0
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromochloromethane	1.0	U	0.29	1.0
Bromodichloromethane	1.0	U	0.15	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	0.52	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Dibromomethane	1.0	U	0.28	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
Diisopropyl ether	5.0	U	1.5	5.0

Client: Tetra Tech, Inc | Job Number: 240-27038-1

Client Sample ID: **MSA-SW42D-071813**

Lab Sample ID: 240-27038-24 | Date Sampled: 07/18/2013 1351
Client Matrix: Water | Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94651	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR6552.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 1736			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 1736				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	1.0	U	0.17	1.0
Ethyl-t-butyl ether (ETBE)	5.0	U	0.11	5.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
Methyl tert-butyl ether	1.0	U	0.17	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
n-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
Tert-amyl-methyl ether (TAME)	5.0	U	0.067	5.0
tert-Butyl alcohol	20	U	3.9	20
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		0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
Vinyl acetate	2.0	U	0.19	2.0
Vinyl chloride	0.27	J	0.22	0.50
Xylenes, Total	2.0	U	0.28	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	88		63 - 129
4-Bromofluorobenzene (Surr)	72		66 - 117
Dibromofluoromethane (Surr)	98		75 - 121
Toluene-d8 (Surr)	78		74 - 115

Analytical Data

Client: Tetra Tech, Inc | Job Number: 240-27038-1

Client Sample ID: **MSA-SW43A-071813**

Lab Sample ID: 240-27038-25 | Date Sampled: 07/18/2013 1219
Client Matrix: Water | Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94651	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR6553.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 1759			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 1759				

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	5.0	U	0.67	5.0
1,2-Dibromoethane	1.0	U	0.24	1.0
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-Butanone	5.0	U	0.57	5.0
2-Chloroethyl vinyl ether	10	U	0.99	10
2-Chlorotoluene	1.0	U	0.11	1.0
2-Hexanone	5.0	U	0.41	5.0
4-Chlorotoluene	1.0	U	0.18	1.0
4-Methyl-2-pentanone	5.0	U	0.32	5.0
Acetone	2.6	J	1.1	5.0
Benzene	0.13	J	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromochloromethane	1.0	U	0.29	1.0
Bromodichloromethane	1.0	U	0.15	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	5.4		0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Dibromomethane	1.0	U	0.28	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
Diisopropyl ether	5.0	U	1.5	5.0

Analytical Data

Client: Tetra Tech, Inc

Job Number: 240-27038-1

Client Sample ID: **MSA-SW43A-071813**

Lab Sample ID: 240-27038-25

Client Matrix: Water

Date Sampled: 07/18/2013 1219

Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94651	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR6553.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 1759			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 1759				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	1.0	U	0.17	1.0
Ethyl-t-butyl ether (ETBE)	5.0	U	0.11	5.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
Methyl tert-butyl ether	1.0	U	0.17	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
n-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
Tert-amyl-methyl ether (TAME)	5.0	U	0.067	5.0
tert-Butyl alcohol	20	U	3.9	20
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	3.6		0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
Vinyl acetate	2.0	U	0.19	2.0
Vinyl chloride	0.43	J	0.22	0.50
Xylenes, Total	2.0	U	0.28	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97		63 - 129
4-Bromofluorobenzene (Surr)	76		66 - 117
Dibromofluoromethane (Surr)	109		75 - 121
Toluene-d8 (Surr)	83		74 - 115

Client: Tetra Tech, Inc | Job Number: 240-27038-1

Client Sample ID: **MSA-SW43B-071813**

Lab Sample ID: 240-27038-26
Client Matrix: Water

Date Sampled: 07/18/2013 1226
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94651	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR6554.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 1821			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 1821				

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	5.0	U	0.67	5.0
1,2-Dibromoethane	1.0	U	0.24	1.0
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-Butanone	5.0	U	0.57	5.0
2-Chloroethyl vinyl ether	10	U	0.99	10
2-Chlorotoluene	1.0	U	0.11	1.0
2-Hexanone	5.0	U	0.41	5.0
4-Chlorotoluene	1.0	U	0.18	1.0
4-Methyl-2-pentanone	5.0	U	0.32	5.0
Acetone	5.0	U	1.1	5.0
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromochloromethane	1.0	U	0.29	1.0
Bromodichloromethane	1.0	U	0.15	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	1.3		0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Dibromomethane	1.0	U	0.28	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
Diisopropyl ether	5.0	U	1.5	5.0

Client: Tetra Tech, Inc

Job Number: 240-27038-1

Client Sample ID: **MSA-SW43B-071813**

Lab Sample ID:	240-27038-26	Date Sampled:	07/18/2013 1226
Client Matrix:	Water	Date Received:	07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94651	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR6554.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 1821			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 1821				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	1.0	U	0.17	1.0
Ethyl-t-butyl ether (ETBE)	5.0	U	0.11	5.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
Methyl tert-butyl ether	1.0	U	0.17	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
n-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
Tert-amyl-methyl ether (TAME)	5.0	U	0.067	5.0
tert-Butyl alcohol	20	U	3.9	20
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	1.4		0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
Vinyl acetate	2.0	U	0.19	2.0
Vinyl chloride	0.36	J	0.22	0.50
Xylenes, Total	2.0	U	0.28	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	92		63 - 129
4-Bromofluorobenzene (Surr)	72		66 - 117
Dibromofluoromethane (Surr)	101		75 - 121
Toluene-d8 (Surr)	79		74 - 115

Analytical Data

Client: Tetra Tech, Inc | Job Number: 240-27038-1

Client Sample ID: **MSA-SW43C-071813**

Lab Sample ID: 240-27038-27
Client Matrix: Water

Date Sampled: 07/18/2013 1230
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94651	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR6555.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 1843			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 1843				

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	5.0	U	0.67	5.0
1,2-Dibromoethane	1.0	U	0.24	1.0
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-Butanone	5.0	U	0.57	5.0
2-Chloroethyl vinyl ether	10	U	0.99	10
2-Chlorotoluene	1.0	U	0.11	1.0
2-Hexanone	5.0	U	0.41	5.0
4-Chlorotoluene	1.0	U	0.18	1.0
4-Methyl-2-pentanone	5.0	U	0.32	5.0
Acetone	1.5	J	1.1	5.0
Benzene	0.13	J	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromochloromethane	1.0	U	0.29	1.0
Bromodichloromethane	1.0	U	0.15	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	0.65	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Dibromomethane	1.0	U	0.28	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
Diisopropyl ether	5.0	U	1.5	5.0

Client: Tetra Tech, Inc

Job Number: 240-27038-1

Client Sample ID: **MSA-SW43C-071813**

Lab Sample ID: 240-27038-27
Client Matrix: Water

Date Sampled: 07/18/2013 1230
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94651	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR6555.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 1843			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 1843				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	1.0	U	0.17	1.0
Ethyl-t-butyl ether (ETBE)	5.0	U	0.11	5.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
Methyl tert-butyl ether	1.0	U	0.17	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
n-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
Tert-amyl-methyl ether (TAME)	5.0	U	0.067	5.0
tert-Butyl alcohol	20	U	3.9	20
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	1.1		0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
Vinyl acetate	2.0	U	0.19	2.0
Vinyl chloride	0.22	J	0.22	0.50
Xylenes, Total	2.0	U	0.28	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97		63 - 129
4-Bromofluorobenzene (Surr)	73		66 - 117
Dibromofluoromethane (Surr)	107		75 - 121
Toluene-d8 (Surr)	80		74 - 115

Analytical Data

Client: Tetra Tech, Inc | Job Number: 240-27038-1

Client Sample ID: **MSA-SW43D-071813**

Lab Sample ID: 240-27038-28
Client Matrix: Water

Date Sampled: 07/18/2013 1234
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94651	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR6556.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 1906			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 1906				

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	5.0	U	0.67	5.0
1,2-Dibromoethane	1.0	U	0.24	1.0
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-Butanone	5.0	U	0.57	5.0
2-Chloroethyl vinyl ether	10	U	0.99	10
2-Chlorotoluene	1.0	U	0.11	1.0
2-Hexanone	5.0	U	0.41	5.0
4-Chlorotoluene	1.0	U	0.18	1.0
4-Methyl-2-pentanone	5.0	U	0.32	5.0
Acetone	5.0	U	1.1	5.0
Benzene	0.13	J	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromochloromethane	1.0	U	0.29	1.0
Bromodichloromethane	1.0	U	0.15	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	0.39	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Dibromomethane	1.0	U	0.28	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
Diisopropyl ether	5.0	U	1.5	5.0

Client: Tetra Tech, Inc   Job Number: 240-27038-1

Client Sample ID: MSA-SW43D-071813

Lab Sample ID: 240-27038-28   Date Sampled: 07/18/2013 1234
Client Matrix: Water   Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94651	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR6556.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 1906			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 1906				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	1.0	U	0.17	1.0
Ethyl-t-butyl ether (ETBE)	5.0	U	0.11	5.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
Methyl tert-butyl ether	1.0	U	0.17	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
n-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
Tert-amyl-methyl ether (TAME)	5.0	U	0.067	5.0
tert-Butyl alcohol	20	U	3.9	20
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	0.72	J	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
Vinyl acetate	2.0	U	0.19	2.0
Vinyl chloride	0.50	U	0.22	0.50
Xylenes, Total	2.0	U	0.28	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96		63 - 129
4-Bromofluorobenzene (Surr)	67		66 - 117
Dibromofluoromethane (Surr)	101		75 - 121
Toluene-d8 (Surr)	74		74 - 115

Client: Tetra Tech, Inc

Job Number: 240-27038-1

Client Sample ID: **MSA-SW44A-071813**

Lab Sample ID: 240-27038-29
Client Matrix: Water

Date Sampled: 07/18/2013 1115
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94651	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR6557.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 1928			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 1928				

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	5.0	U	0.67	5.0
1,2-Dibromoethane	1.0	U	0.24	1.0
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-Butanone	5.0	U	0.57	5.0
2-Chloroethyl vinyl ether	10	U	0.99	10
2-Chlorotoluene	1.0	U	0.11	1.0
2-Hexanone	5.0	U	0.41	5.0
4-Chlorotoluene	1.0	U	0.18	1.0
4-Methyl-2-pentanone	5.0	U	0.32	5.0
Acetone	5.0	U	1.1	5.0
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromochloromethane	1.0	U	0.29	1.0
Bromodichloromethane	1.0	U	0.15	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	0.45	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Dibromomethane	1.0	U	0.28	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
Diisopropyl ether	5.0	U	1.5	5.0

Analytical Data

Client: Tetra Tech, Inc

Job Number: 240-27038-1

Client Sample ID: **MSA-SW44A-071813**

Lab Sample ID: 240-27038-29
Client Matrix: Water

Date Sampled: 07/18/2013 1115
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94651	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR6557.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 1928			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 1928				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	1.0	U	0.17	1.0
Ethyl-t-butyl ether (ETBE)	5.0	U	0.11	5.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
Methyl tert-butyl ether	1.0	U	0.17	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
n-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
Tert-amyl-methyl ether (TAME)	5.0	U	0.067	5.0
tert-Butyl alcohol	20	U	3.9	20
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	0.78	J	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
Vinyl acetate	2.0	U	0.19	2.0
Vinyl chloride	0.50	U	0.22	0.50
Xylenes, Total	2.0	U	0.28	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95		63 - 129
4-Bromofluorobenzene (Surr)	73		66 - 117
Dibromofluoromethane (Surr)	104		75 - 121
Toluene-d8 (Surr)	80		74 - 115

Analytical Data

Client: Tetra Tech, Inc

Job Number: 240-27038-1

Client Sample ID: **MSA-SW44B-071813**

Lab Sample ID: 240-27038-30
Client Matrix: Water

Date Sampled: 07/18/2013 1122
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94651	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR6558.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 1950			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 1950				

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	5.0	U	0.67	5.0
1,2-Dibromoethane	1.0	U	0.24	1.0
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-Butanone	5.0	U	0.57	5.0
2-Chloroethyl vinyl ether	10	U	0.99	10
2-Chlorotoluene	1.0	U	0.11	1.0
2-Hexanone	5.0	U	0.41	5.0
4-Chlorotoluene	1.0	U	0.18	1.0
4-Methyl-2-pentanone	5.0	U	0.32	5.0
Acetone	5.0	U	1.1	5.0
Benzene	0.14	J	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromochloromethane	1.0	U	0.29	1.0
Bromodichloromethane	1.0	U	0.15	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	0.41	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Dibromomethane	1.0	U	0.28	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
Diisopropyl ether	5.0	U	1.5	5.0

Analytical Data

Client: Tetra Tech, Inc

Job Number: 240-27038-1

Client Sample ID: **MSA-SW44B-071813**

Lab Sample ID: 240-27038-30

Client Matrix: Water

Date Sampled: 07/18/2013 1122

Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94651	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR6558.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 1950			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 1950				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	1.0	U	0.17	1.0
Ethyl-t-butyl ether (ETBE)	5.0	U	0.11	5.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
Methyl tert-butyl ether	1.0	U	0.17	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
n-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
Tert-amyl-methyl ether (TAME)	5.0	U	0.067	5.0
tert-Butyl alcohol	20	U	3.9	20
tert-Butylbenzene	1.0	U	0.13	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	0.27	J	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	0.88	J	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
Vinyl acetate	2.0	U	0.19	2.0
Vinyl chloride	0.23	J	0.22	0.50
Xylenes, Total	2.0	U	0.28	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	91		63 - 129
4-Bromofluorobenzene (Surr)	70		66 - 117
Dibromofluoromethane (Surr)	100		75 - 121
Toluene-d8 (Surr)	76		74 - 115

Analytical Data

Client: Tetra Tech, Inc | Job Number: 240-27038-1

Client Sample ID: **MSA-SW44C-071813**

Lab Sample ID: 240-27038-31
Client Matrix: Water

Date Sampled: 07/18/2013 1125
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94651	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR6559.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 2013			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 2013				

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	5.0	U	0.67	5.0
1,2-Dibromoethane	1.0	U	0.24	1.0
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-Butanone	5.0	U	0.57	5.0
2-Chloroethyl vinyl ether	10	U	0.99	10
2-Chlorotoluene	1.0	U	0.11	1.0
2-Hexanone	5.0	U	0.41	5.0
4-Chlorotoluene	1.0	U	0.18	1.0
4-Methyl-2-pentanone	5.0	U	0.32	5.0
Acetone	5.0	U	1.1	5.0
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromochloromethane	1.0	U	0.29	1.0
Bromodichloromethane	1.0	U	0.15	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	0.46	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Dibromomethane	1.0	U	0.28	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
Diisopropyl ether	5.0	U	1.5	5.0

Analytical Data

Client: Tetra Tech, Inc

Job Number: 240-27038-1

Client Sample ID: **MSA-SW44C-071813**

Lab Sample ID: 240-27038-31
Client Matrix: Water

Date Sampled: 07/18/2013 1125
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94651	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR6559.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 2013			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 2013				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	1.0	U	0.17	1.0
Ethyl-t-butyl ether (ETBE)	5.0	U	0.11	5.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
Methyl tert-butyl ether	1.0	U	0.17	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
n-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
Tert-amyl-methyl ether (TAME)	5.0	U	0.067	5.0
tert-Butyl alcohol	20	U	3.9	20
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	0.82	J	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
Vinyl acetate	2.0	U	0.19	2.0
Vinyl chloride	0.23	J	0.22	0.50
Xylenes, Total	2.0	U	0.28	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	91		63 - 129
4-Bromofluorobenzene (Surr)	72		66 - 117
Dibromofluoromethane (Surr)	102		75 - 121
Toluene-d8 (Surr)	75		74 - 115

Client: Tetra Tech, Inc

Job Number: 240-27038-1

Client Sample ID:	**MSA-SW44D-071813**
Lab Sample ID:	240-27038-32
Client Matrix:	Water

Date Sampled: 07/18/2013 1131
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94651	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR6560.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 2035			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 2035				

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	5.0	U	0.67	5.0
1,2-Dibromoethane	1.0	U	0.24	1.0
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-Butanone	5.0	U	0.57	5.0
2-Chloroethyl vinyl ether	10	U	0.99	10
2-Chlorotoluene	1.0	U	0.11	1.0
2-Hexanone	5.0	U	0.41	5.0
4-Chlorotoluene	1.0	U	0.18	1.0
4-Methyl-2-pentanone	5.0	U	0.32	5.0
Acetone	2.0	J	1.1	5.0
Benzene	0.13	J	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromochloromethane	1.0	U	0.29	1.0
Bromodichloromethane	1.0	U	0.15	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
Dibromochloromethane	1.0	U	0.18	1.0
Dibromomethane	1.0	U	0.28	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
Diisopropyl ether	5.0	U	1.5	5.0

Analytical Data

Client: Tetra Tech, Inc | Job Number: 240-27038-1

Client Sample ID: **MSA-SW44D-071813**

Lab Sample ID:	240-27038-32	Date Sampled:	07/18/2013 1131
Client Matrix:	Water	Date Received:	07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94651	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR6560.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 2035			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 2035				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	1.0	U	0.17	1.0
Ethyl-t-butyl ether (ETBE)	5.0	U	0.11	5.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
Methyl tert-butyl ether	1.0	U	0.17	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
n-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
Tert-amyl-methyl ether (TAME)	5.0	U	0.067	5.0
tert-Butyl alcohol	20	U	3.9	20
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	0.75	J	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
Vinyl acetate	2.0	U	0.19	2.0
Vinyl chloride	0.22	J	0.22	0.50
Xylenes, Total	2.0	U	0.28	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93		63 - 129
4-Bromofluorobenzene (Surr)	71		66 - 117
Dibromofluoromethane (Surr)	98		75 - 121
Toluene-d8 (Surr)	75		74 - 115

Client: Tetra Tech, Inc | Job Number: 240-27038-1

Client Sample ID: **MSA-SW45A-071813**

Lab Sample ID: 240-27038-33
Client Matrix: Water

Date Sampled: 07/18/2013 1047
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94651	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR6561.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 2057			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 2057				

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	5.0	U	0.67	5.0
1,2-Dibromoethane	1.0	U	0.24	1.0
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-Butanone	5.0	U	0.57	5.0
2-Chloroethyl vinyl ether	10	U	0.99	10
2-Chlorotoluene	1.0	U	0.11	1.0
2-Hexanone	5.0	U	0.41	5.0
4-Chlorotoluene	1.0	U	0.18	1.0
4-Methyl-2-pentanone	5.0	U	0.32	5.0
Acetone	2.0	J	1.1	5.0
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromochloromethane	1.0	U	0.29	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Bromoform	1.0	U	0.64	1.0
Bromomethane	1.0	U	0.41	1.0
Carbon disulfide	0.14	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	1.0	U	0.16	1.0
Chloromethane	1.0	U	0.30	1.0
cis-1,2-Dichloroethene	0.32	J	0.17	1.0
cis-1,3-Dichloropropene	1.0	U	0.14	1.0
Dibromochloromethane	1.0	U	0.18	1.0
Dibromomethane	1.0	U	0.28	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
Diisopropyl ether	5.0	U	1.5	5.0

Client: Tetra Tech, Inc | Job Number: 240-27038-1

Client Sample ID: **MSA-SW45A-071813**

Lab Sample ID: 240-27038-33 | Date Sampled: 07/18/2013 1047
Client Matrix: Water | Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94651	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR6561.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 2057			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 2057				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	1.0	U	0.17	1.0
Ethyl-t-butyl ether (ETBE)	5.0	U	0.11	5.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
Methyl tert-butyl ether	1.0	U	0.17	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
n-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
Tert-amyl-methyl ether (TAME)	5.0	U	0.067	5.0
tert-Butyl alcohol	20	U	3.9	20
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	0.60	J	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
Vinyl acetate	2.0	U	0.19	2.0
Vinyl chloride	0.50	U	0.22	0.50
Xylenes, Total	2.0	U	0.28	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93		63 - 129
4-Bromofluorobenzene (Surr)	71		66 - 117
Dibromofluoromethane (Surr)	103		75 - 121
Toluene-d8 (Surr)	76		74 - 115

Analytical Data

Client: Tetra Tech, Inc

Job Number: 240-27038-1

Client Sample ID: **MSA-SW45B-071813**

Lab Sample ID: 240-27038-34
Client Matrix: Water

Date Sampled: 07/18/2013 1053
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94651	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR6562.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 2120			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 2120				

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	5.0	U	0.67	5.0
1,2-Dibromoethane	1.0	U	0.24	1.0
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-Butanone	5.0	U	0.57	5.0
2-Chloroethyl vinyl ether	10	U	0.99	10
2-Chlorotoluene	1.0	U	0.11	1.0
2-Hexanone	5.0	U	0.41	5.0
4-Chlorotoluene	1.0	U	0.18	1.0
4-Methyl-2-pentanone	5.0	U	0.32	5.0
Acetone	1.2	J	1.1	5.0
Benzene	0.15	J	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromochloromethane	1.0	U	0.29	1.0
Bromodichloromethane	1.0	U	0.15	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
Dibromochloromethane	1.0	U	0.18	1.0
Dibromomethane	1.0	U	0.28	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
Diisopropyl ether	5.0	U	1.5	5.0

Client: Tetra Tech, Inc | Job Number: 240-27038-1

Client Sample ID: **MSA-SW45B-071813**

Lab Sample ID: 240-27038-34 | Date Sampled: 07/18/2013 1053
Client Matrix: Water | Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94651	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR6562.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 2120			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 2120				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	1.0	U	0.17	1.0
Ethyl-t-butyl ether (ETBE)	5.0	U	0.11	5.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
Methyl tert-butyl ether	1.0	U	0.17	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
n-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
Tert-amyl-methyl ether (TAME)	5.0	U	0.067	5.0
tert-Butyl alcohol	20	U	3.9	20
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	0.33	J	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
Vinyl acetate	2.0	U	0.19	2.0
Vinyl chloride	0.50	U	0.22	0.50
Xylenes, Total	2.0	U	0.28	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94		63 - 129
4-Bromofluorobenzene (Surr)	71		66 - 117
Dibromofluoromethane (Surr)	104		75 - 121
Toluene-d8 (Surr)	76		74 - 115

Client: Tetra Tech, Inc

Job Number: 240-27038-1

Client Sample ID: **MSA-SW45C-071813**

Lab Sample ID: 240-27038-35
Client Matrix: Water

Date Sampled: 07/18/2013 1100
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94651	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR6563.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 2142			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 2142				

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	5.0	U	0.67	5.0
1,2-Dibromoethane	1.0	U	0.24	1.0
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-Butanone	5.0	U	0.57	5.0
2-Chloroethyl vinyl ether	10	U	0.99	10
2-Chlorotoluene	1.0	U	0.11	1.0
2-Hexanone	5.0	U	0.41	5.0
4-Chlorotoluene	1.0	U	0.18	1.0
4-Methyl-2-pentanone	5.0	U	0.32	5.0
Acetone	1.7	J	1.1	5.0
Benzene	0.17	J	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromochloromethane	1.0	U	0.29	1.0
Bromodichloromethane	1.0	U	0.15	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
Dibromochloromethane	1.0	U	0.18	1.0
Dibromomethane	1.0	U	0.28	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
Diisopropyl ether	5.0	U	1.5	5.0

Analytical Data

Client: Tetra Tech, Inc

Job Number: 240-27038-1

Client Sample ID: **MSA-SW45C-071813**

Lab Sample ID: 240-27038-35
Client Matrix: Water

Date Sampled: 07/18/2013 1100
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94651	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR6563.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 2142			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 2142				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	1.0	U	0.17	1.0
Ethyl-t-butyl ether (ETBE)	5.0	U	0.11	5.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
Methyl tert-butyl ether	1.0	U	0.17	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
n-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
Tert-amyl-methyl ether (TAME)	5.0	U	0.067	5.0
tert-Butyl alcohol	20	U	3.9	20
tert-Butylbenzene	1.0	U	0.13	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	0.43	J	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	0.26	J	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
Vinyl acetate	2.0	U	0.19	2.0
Vinyl chloride	0.50	U	0.22	0.50
Xylenes, Total	2.0	U	0.28	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	91		63 - 129
4-Bromofluorobenzene (Surr)	70		66 - 117
Dibromofluoromethane (Surr)	100		75 - 121
Toluene-d8 (Surr)	75		74 - 115

Analytical Data

Client: Tetra Tech, Inc | Job Number: 240-27038-1

Client Sample ID: **MSA-SW45D-071813**

Lab Sample ID: 240-27038-36
Client Matrix: Water

Date Sampled: 07/18/2013 1105
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94651	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR6564.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 2204			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 2204				

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	5.0	U	0.67	5.0
1,2-Dibromoethane	1.0	U	0.24	1.0
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-Butanone	5.0	U	0.57	5.0
2-Chloroethyl vinyl ether	10	U	0.99	10
2-Chlorotoluene	1.0	U	0.11	1.0
2-Hexanone	5.0	U	0.41	5.0
4-Chlorotoluene	1.0	U	0.18	1.0
4-Methyl-2-pentanone	5.0	U	0.32	5.0
Acetone	5.0	U	1.1	5.0
Benzene	0.13	J	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromochloromethane	1.0	U	0.29	1.0
Bromodichloromethane	1.0	U	0.15	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
Dibromochloromethane	1.0	U	0.18	1.0
Dibromomethane	1.0	U	0.28	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
Diisopropyl ether	5.0	U	1.5	5.0

Client: Tetra Tech, Inc

Job Number: 240-27038-1

Client Sample ID: **MSA-SW45D-071813**

Lab Sample ID: 240-27038-36
Client Matrix: Water

Date Sampled: 07/18/2013 1105
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94651	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR6564.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/23/2013 2204			Final Weight/Volume:	5 mL
Prep Date:	07/23/2013 2204				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	1.0	U	0.17	1.0
Ethyl-t-butyl ether (ETBE)	5.0	U	0.11	5.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
Methyl tert-butyl ether	1.0	U	0.17	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
n-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
Tert-amyl-methyl ether (TAME)	5.0	U	0.067	5.0
tert-Butyl alcohol	20	U	3.9	20
tert-Butylbenzene	1.0	U	0.13	1.0
Tetrachloroethene	1.0	U	0.29	1.0
Toluene	0.13	J	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	0.37	J	0.17	1.0
Trichlorofluoromethane	1.0	U	0.21	1.0
Vinyl acetate	2.0	U	0.19	2.0
Vinyl chloride	0.50	U	0.22	0.50
Xylenes, Total	2.0	U	0.28	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94		63 - 129
4-Bromofluorobenzene (Surr)	69		66 - 117
Dibromofluoromethane (Surr)	101		75 - 121
Toluene-d8 (Surr)	75		74 - 115

Client: Tetra Tech, Inc

Job Number: 240-27038-1

Client Sample ID: **TB-071813**

Lab Sample ID: 240-27038-41
Client Matrix: Water

Date Sampled: 07/18/2013 0000
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94801	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR6576.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/24/2013 1325			Final Weight/Volume:	5 mL
Prep Date:	07/24/2013 1325				

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	5.0	U	0.67	5.0
1,2-Dibromoethane	1.0	U	0.24	1.0
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-Butanone	5.0	U	0.57	5.0
2-Chloroethyl vinyl ether	10	U	0.99	10
2-Chlorotoluene	1.0	U	0.11	1.0
2-Hexanone	5.0	U	0.41	5.0
4-Chlorotoluene	1.0	U	0.18	1.0
4-Methyl-2-pentanone	5.0	U	0.32	5.0
Acetone	5.0	U	1.1	5.0
Benzene	1.0	U	0.13	1.0
Bromobenzene	1.0	U	0.13	1.0
Bromochloromethane	1.0	U	0.29	1.0
Bromodichloromethane	1.0	U	0.15	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
Dibromochloromethane	1.0	U	0.18	1.0
Dibromomethane	1.0	U	0.28	1.0
Dichlorodifluoromethane	1.0	U	0.31	1.0
Diisopropyl ether	5.0	U	1.5	5.0

Client: Tetra Tech, Inc | Job Number: 240-27038-1

Client Sample ID:	**TB-071813**
Lab Sample ID:	240-27038-41
Client Matrix:	Water

Date Sampled: 07/18/2013 0000
Date Received: 07/19/2013 0925

8260B Volatile Priority Pollutants

Analysis Method:	8260B	Analysis Batch:	240-94801	Instrument ID:	A3UX17
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXR6576.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/24/2013 1325			Final Weight/Volume:	5 mL
Prep Date:	07/24/2013 1325				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	1.0	U	0.17	1.0
Ethyl-t-butyl ether (ETBE)	5.0	U	0.11	5.0
Hexachlorobutadiene	1.0	U	0.30	1.0
Isopropylbenzene	1.0	U	0.13	1.0
Methyl tert-butyl ether	1.0	U	0.17	1.0
Methylene Chloride	1.0	U	0.33	1.0
m-Xylene & p-Xylene	2.0	U	0.24	2.0
Naphthalene	1.0	U	0.24	1.0
n-Butylbenzene	1.0	U	0.12	1.0
n-Propylbenzene	1.0	U	0.14	1.0
o-Xylene	1.0	U	0.14	1.0
p-Isopropyltoluene	1.0	U	0.12	1.0
sec-Butylbenzene	1.0	U	0.13	1.0
Styrene	1.0	U	0.11	1.0
Tert-amyl-methyl ether (TAME)	5.0	U	0.067	5.0
tert-Butyl alcohol	20	U	3.9	20
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	0.50	U	0.22	0.50
Xylenes, Total	2.0	U	0.28	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94		63 - 129
4-Bromofluorobenzene (Surr)	77		66 - 117
Dibromofluoromethane (Surr)	106		75 - 121
Toluene-d8 (Surr)	82		74 - 115

Appendix C

Support Documentation

LMC - MARTIN STATE AIRPORT
SDG 240-27038-1

SAMPLE IDENTIFICATION	MSA-SW41A-071813
COMPOUND	TRICHLOROETHENE
COMPOUND AREA	26226
INTERNAL STANDARD AMOUNT (ng)	250
VOLUME WATER PURGED (ml)	5
DILUTION FACTOR	1
INTERNAL STANDARD AREA	3292390
AVERAGE RRF	0.2355
ml to µl	1000
ng to µg	1000
	1.7 µg/L

26226 x 250ng x 1 X 1000ml X 1µg /3292390 x 0.2355 x 5ml x 1L x 1000ng

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A3UX9\20130722-21835.b\UX938175.D		
Lims ID:	240-27038-C-17	Client ID:	MSA-SW41A-071813
Inject. Date:	23-Jul-2013 01:32:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0021835-023		TCE
Misc. Info.:			
Operator:	1904	Instrument ID:	A3UX9
Purge Vol:	5.000 mL	ALS Bottle#:	22
Lims Batch ID:	94518	Lims Sample ID:	23
Detector:	MS SCAN		
Method:	\\Ncchrom\ChromData\A3UX9\20130722-21835.b\8260_9.m		
Last Update:	24-Jul-2013 07:58:46	Calib Date:	19-Jul-2013 02:17:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A3UX9\20130718-21750.b\UX938122.D		
Limit Group:	MSV 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	DB-624	Column Dia:	0.18 mm
Process Host:	XAWRK025		

First Level Reviewer: evansle Date: 24-Jul-2013 07:55:36

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 2 TBA-d9 (IS)	65	3.317	3.320	-0.003	100	1979607	1000.0	
* 3 Fluorobenzene	96	5.305	5.308	-0.003	98	3292390	50.0	
* 1 Dioxane-d8 (IS)	96	5.861	5.864	-0.003	89	141179	1000.0	
* 4 Chlorobenzene-d5	117	7.956	7.958	-0.002	92	2490776	50.0	
* 5 1,4-Dichlorobenzene-d4	152	10.192	10.195	-0.003	95	1213618	50.0	
$ 7 Dibromofluoromethane (Surr)	113	4.737	4.738	-0.001	74	286510	20.5	
$ 8 1,2-Dichloroethane-d4 (Surr)	65	5.021	5.022	-0.001	96	484062	18.9	
$ 9 Toluene-d8 (Surr)	98	6.654	6.655	-0.001	95	1162547	19.3	
$ 10 4-Bromofluorobenzene (Surr)	95	9.068	9.069	-0.001	92	431268	17.9	
18 Dichlorodifluoromethane	85		1.662					
19 Chloromethane	50		1.804					9
20 Vinyl chloride	62	1.909	1.910	-0.001	58	13578	0.3710	
22 Bromomethane	94		2.218					9
23 Chloroethane	64		2.313					
25 Trichlorofluoromethane	101		2.514					
30 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.952					
32 Acetone	43		2.952					
31 1,1-Dichloroethene	61		2.952					9
34 Carbon disulfide	76		3.165					9
38 Methylene Chloride	49		3.366					9
39 2-Methyl-2-propanol	59		3.390					
41 Methyl tert-butyl ether	73		3.532					
42 trans-1,2-Dichloroethene	61		3.579					9
44 1,1-Dichloroethane	63		3.887					
45 Vinyl acetate	86		3.910					
46 Isopropyl ether	87		3.923					
48 Tert-butyl ethyl ether	59		4.219					9
50 cis-1,2-Dichloroethene	61	4.347	4.360	-0.013	78	42743	1.09	
49 2-Butanone (MEK)	43	4.430	4.360	0.070	36	1198	0.0997	
51 2,2-Dichloropropane	77		4.360					

Report Date: 24-Jul-2013 07:58:58 Chrom Revision: 2.0 01-Apr-2013 21:16:10
Data File: \\Ncchrom\ChromData\A3UX9\20130722-21835.b\UX938175.D

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
55 Chlorobromomethane	49		4.549					
57 Chloroform	83		4.608					9
58 1,1,1-Trichloroethane	97		4.774					
60 1,1-Dichloropropene	75		4.904					
61 Carbon tetrachloride	117		4.916					9
63 Benzene	78		5.082					9
64 1,2-Dichloroethane	62		5.082					
65 Tert-amyl methyl ether	73		5.154					9
69 Trichloroethene	130	5.613	5.614	-0.001	77	26226	1.69	
71 1,2-Dichloropropane	63		5.803					9
74 Dibromomethane	174		5.910					
75 Dichlorobromomethane	83		6.028					
77 2-Chloroethyl vinyl ether	63		6.265					9
79 cis-1,3-Dichloropropene	75		6.407					
80 4-Methyl-2-pentanone (MIBK)	43		6.525					9
81 Toluene	91		6.715					
82 trans-1,3-Dichloropropene	75		6.892					9
85 Tetrachloroethene	166		7.200					
86 1,3-Dichloropropane	76		7.212					
88 2-Hexanone	43		7.271					9
90 Chlorodibromomethane	129		7.425					
91 Ethylene Dibromide	107		7.543					
93 Chlorobenzene	112		7.981					9
94 1,1,1,2-Tetrachloroethane	131		8.052					9
95 Ethylbenzene	106		8.075					
96 m-Xylene & p-Xylene	106		8.182					9
97 o-Xylene	106		8.560					
98 Styrene	104		8.572					
99 Bromoform	173		8.762					
100 Isopropylbenzene	105		8.915					
102 1,1,2,2-Tetrachloroethane	83		9.188					
103 Bromobenzene	156		9.223					9
105 1,2,3-Trichloropropane	110		9.235					9
106 N-Propylbenzene	120		9.306					
108 2-Chlorotoluene	126		9.401					
110 4-Chlorotoluene	126		9.507					
112 tert-Butylbenzene	119		9.803					
113 1,2,4-Trimethylbenzene	105		9.838					9
114 sec-Butylbenzene	105		10.016					9
115 1,3-Dichlorobenzene	146		10.134					
116 4-Isopropyltoluene	119		10.146					
117 1,4-Dichlorobenzene	146		10.217					
118 1,2,3-Trimethylbenzene	105		10.266					9
120 n-Butylbenzene	91		10.560					9
121 1,2-Dichlorobenzene	146		10.584					
122 1,2-Dibromo-3-Chloropropane	157		11.365					
124 1,2,4-Trichlorobenzene	180		12.181					
125 Hexachlorobutadiene	225		12.359					
126 Naphthalene	128		12.442					
127 1,2,3-Trichlorobenzene	180		12.690					
S 132 Xylenes, Total	106		16.530					

$\overline{RRF} = 0.2355$

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: Tony Apanavage	Date: 7/18/13	COC No:
Tera Tech	Tel/Fax: 301-233-8230 (cell)	Lab Contact: Pat Omeara	Carrier: Fedex	1 of 4 COCs
20251 Century Blvd, Suite 200	Analysis Turnaround Time			Job No.
Germantown, MD 20874	Calendar (C) or Work Days (W)			
(301) 528-3021 Phone	TAT if different from Below			
(301) 528-3000 FAX	☐ 2 weeks			SDG No.
Project Name: MSA Surface Water Sampling	☐ 1 week			
Site: MSA Frog Mortar Creek	☐ 2 days			
P O#	☐ 1 day			Sampler:

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs	Dissolved Metals	Hardness	Sample Specific Notes:
MSA-SW37A-071813	7/18/2013	1410	SW	Water	4	x	x	x	x	
MSA-SW37B-071813	7/18/2013	1403	SW	Water	4	x	x	x	x	
MSA-SW37C-071813	7/18/2013	1408	SW	Water	4	x	x	x	x	
MSA-SW37D-071813	7/18/2013	1415	SW	Water	4	x	x	x	x	
MSA-SW38A-071813	7/18/2013	1458	SW	Water	4	x	x	x	x	
MSA-SW38B-071813	7/18/2013	1304	SW	Water	4	x	x	x	x	
MSA-SW38C-071813	7/18/2013	1306	SW	Water	4	x	x	x	x	
MSA-SW38D-071813	7/18/2013	1310	SW	Water	4	x	x	x	x	
MSA-SW39A-071813	7/18/2013	1015	SW	Water	4	x	x	x	x	
MSA-SW39B-071813	7/18/2013	1021	SW	Water	4	x	x	x	x	
MSA-SW39C-071813	7/18/2013	1029	SW	Water	4	x	x	x	x	
MSA-SW39D-071813	7/18/2013	1034	SW	Water	4	x	x	x	x	

240-27038 Chain of Custody

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:
[illegible]	Tetra Tech	7/18/13-1600	[illegible]	TestAmerica	7/18/13 / 1600
[illegible]	TestAmerica	7/18/13/1800	[illegible]	TAC	7/19/13 925

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: Tony Apanavage	Date: 7/18/13
Tera Tech	Tel/Fax: 301-233-8230 (cell)	Lab Contact: Pat Omeara	Carrier: Fedex
20251 Century Blvd, Suite 200	Analysis Turnaround Time		
Germantown, MD 20874	Calendar (C) or Work Days (W) ______		
(301) 528-3021 Phone	TAT if different from Below ______		
(301) 528-3000 FAX	☐ 2 weeks		
Project Name: MSA Surface Water Sampling	☐ 1 week		
Site: MSA Frog Mortar Creek	☐ 2 days		
P O #	☐ 1 day		

COC No: 2 of 4 COCs
Job No.
SDG No.
Sampler:

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs	Dissolved Metals	Hardness	Sample Specific Notes:
MSA-SW40A-071813	7/18/2013	1316	SW	Water	4	x	x	x	x	
MSA-SW40B-071813	7/18/2013	1321	SW	Water	4	x	x	x	x	
MSA-SW40C-071813	7/18/2013	1326	SW	Water	4	x	x	x	x	
MSA-SW40D-071813	7/18/2013	1332	SW	Water	4	x	x	x	x	
MSA-SW41A-071813	7/18/2013	1241	SW	Water	4	x	x	x	x	
MSA-SW41B-071813	7/18/2013	1245	SW	Water	4	x	x	x	x	
MSA-SW41C-071813	7/18/2013	1249	SW	Water	4	x	x	x	x	
MSA-SW41D-071813	7/18/2013	1252	SW	Water	4	x	x	x	x	
MSA-SW42A-071813	7/18/2013	1337	SW	Water	4	x	x	x	x	
MSA-SW42B-071813	7/18/2013	1342	SW	Water	4	x	x	x	x	
MSA-SW42C-071813	7/18/2013	1347	SW	Water	4	x	x	x	x	
MSA-SW42D-071813	7/18/2013	1351	SW	Water	4	x	x	x	x	

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: [illegible]	Company: Tetra Tech	Date/Time: 7/18/13-1600	Received by: [illegible]	Company: 7/18/13/1600	Date/Time: TestAmerica
Relinquished by: [illegible]	Company: TestAmerica	Date/Time: 7/18/13/1800	Received by: [illegible]	Company: TAC	Date/Time: 7/19/13 925
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 2, dated 03/06/2012

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: Tony Apanavage	Date: 7/18/13	COC No:
Tera Tech	Tel/Fax: 301-233-8230 (cell)	Lab Contact: Pat Omeara	Carrier: Fedex	[illegible] of 4 COCs
20251 Century Blvd, Suite 200	Analysis Turnaround Time			Job No.
Germantown, MD 20874	Calendar (C) or Work Days (W)			
(301) 528-3021 Phone	TAT if different from Below			SDG No.
(301) 528-3000 FAX	☐ 2 weeks			
Project Name: MSA Surface Water Sampling	☐ 1 week			
Site: MSA Frog Mortar Creek	☐ 2 days			
PO#	☐ 1 day			Sampler:

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs	Dissolved Metals	Hardness	Sample Specific Notes:
MSA-SW43A-071813	7/18/2013	1219	SW	Water	4	x	x	x	x	
MSA-SW43B-071813	7/18/2013	1226	SW	Water	4	x	x	x	x	
MSA-SW43C-071813	7/18/2013	1230	SW	Water	4	x	x	x	x	
MSA-SW43D-071813	7/18/2013	1234	SW	Water	4	x	x	x	x	
MSA-SW44A-071813	7/18/2013	1115	SW	Water	4	x	x	x	x	
MSA-SW44B-071813	7/18/2013	1122	SW	Water	4	x	x	x	x	
MSA-SW44C-071813	7/18/2013	1125	SW	Water	4	x	x	x	x	
MSA-SW44D-071813	7/18/2013	1131	SW	Water	4	x	x	x	x	
MSA-SW45A-071813	7/18/2013	1047	SW	Water	4	x	x	x	x	
MSA-SW45B-071813	7/18/2013	1053	SW	Water	4	x	x	x	x	
MSA-SW45C-071813	7/18/2013	1100	SW	Water	4	x	x	x	x	
MSA-SW45D-071813	7/18/2013	1105	SW	Water	4	x	x	x	x	

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:
[illegible]	Tetra Tech	7/18/13-1100	[illegible]	TestAmerica	7/18/13 / 1600
[illegible]	TestAmerica	7/18/13/1800	[illegible]	TAC	7/19/13 925

Form No. CA-C-WI-002, Rev. 2, dated 03/06/2012

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: Tony Apanavage	Date: 7/18/13	COC No:
Tera Tech	Tel/Fax: 301-233-8230 (cell)	Lab Contact: Pat Omeara	Carrier: Fedex	9 of 9 COCs
20251 Century Blvd, Suite 200	Analysis Turnaround Time			Job No.
Germantown, MD 20874	Calendar (C) or Work Days (W)			
(301) 528-3021 Phone	TAT if different from Below			
(301) 528-3000 FAX	☐ 2 weeks			SDG No.
Project Name: MSA Surface Water Sampling	☐ 1 week			
Site: MSA Frog Mortar Creek	☐ 2 days			
P O #	☐ 1 day			Sampler:

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs	Dissolved Metals	Hardness	Sample Specific Notes:
EL-SW01A-071813	7/18/2013	0926	SW	AQ	3		x	x	x	
EL-SW01B-071813	7/18/2013	0942	SW	AQ	3		x	x	x	
EL-SW01C-071813	7/18/2013	0947	SW	AQ	3		x	x	x	
EL-SW01D-071813	7/18/2013	0951	SW	AQ	3		x	x	x	
TB-071813	–	–	TB	AQ	3		x			

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:
[illegible]	Tera Tech	7/18/13-1600	[illegible]	TestAmerica	7/18/13 / 1600
[illegible]	TestAmerica	7/18/13/1800	[illegible]	[illegible]	7/19/13 925

Form No. CA-C-WI-002, Rev. 2, dated 03/06/2012

TestAmerica Canton Sample Receipt Form/Narrative Login # : 27038
Canton Facility

Client Tetra Tech Site Name ______ Cooler unpacked by: [illegible]

Cooler Received on 7-19-13 Opened on 7-19-13

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 [✓ See Multiple Cooler Form]
   - ~~IR GUN# A (CF −1 °C) Observed Cooler Temp. ____ °C Corrected Cooler Temp. ____ °C~~
   - IR GUN# 4 (CF 0 °C) Observed Cooler Temp. ____ °C Corrected Cooler Temp. ____ °C
   - IR GUN# 5 (CF +1 °C) Observed Cooler Temp. ____ °C Corrected Cooler Temp. ____ °C
   - ~~IR GUN# 8 (CF −0 °C) Observed Cooler Temp. ____ °C Corrected Cooler 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 pH Strip Lot# HC376062
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 Samples processed by: [illegible]

7/19/13

Did not receive Metals + Hardness volume for the following samples
SW01A, SW01B, SW01C, SW01D

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 the laboratory.
Time preserved: ______ Preservative(s) added/Lot number(s): ______.

Ref: SOP NC-SC-0005, Sample Receiving
\\Cansvr10\public\QAQC\SOPS\Work Instructions\WI-NC-099-061413, Rev 1 Cooler Receipt Form.doc rls

TestAmerica Multiple Cooler Receipt Form/Narrative Login #
Canton Facility

Cooler #	IR Gun #	Observed Temp °C	Corrected Temp °C	Coolant
Client	5	0.4	1.4	ICE
Client	5	1.0	2.0	ICE

Login Container Summary Report

Temperature readings: ____________________

Client Sample ID	Lab ID	Container Type	Container pH	Preservative Added (mls)	Lot #
MSA-SW37A-071813	240-27038-D-1	Plastic 500ml - with Nitric Acid	<2		
MSA-SW37B-071813	240-27038-D-2	Plastic 500ml - with Nitric Acid	<2		
MSA-SW37C-071813	240-27038-D-3	Plastic 500ml - with Nitric Acid	<2		
MSA-SW37D-071813	240-27038-D-4	Plastic 500ml - with Nitric Acid	<2		
MSA-SW38A-071813	240-27038-D-5	Plastic 500ml - with Nitric Acid	<2		
MSA-SW38B-071813	240-27038-D-6	Plastic 500ml - with Nitric Acid	<2		
MSA-SW38C-071813	240-27038-D-7	Plastic 500ml - with Nitric Acid	<2		
MSA-SW38D-071813	240-27038-D-8	Plastic 500ml - with Nitric Acid	<2		
MSA-SW39A-071813	240-27038-D-9	Plastic 500ml - with Nitric Acid	<2		
MSA-SW39B-071813	240-27038-D-10	Plastic 500ml - with Nitric Acid	<2		
MSA-SW39C-071813	240-27038-D-11	Plastic 500ml - with Nitric Acid	<2		
MSA-SW39D-071813	240-27038-D-12	Plastic 500ml - with Nitric Acid	<2		
MSA-SW40A-071813	240-27038-D-13	Plastic 500ml - with Nitric Acid	<2		
MSA-SW40B-071813	240-27038-D-14	Plastic 500ml - with Nitric Acid	<2		
MSA-SW40C-071813	240-27038-D-15	Plastic 500ml - with Nitric Acid	<2		
MSA-SW40D-071813	240-27038-D-16	Plastic 500ml - with Nitric Acid	<2		
MSA-SW41A-071813	240-27038-D-17	Plastic 500ml - with Nitric Acid	<2		
MSA-SW41B-071813	240-27038-D-18	Plastic 500ml - with Nitric Acid	<2		
MSA-SW41C-071813	240-27038-D-19	Plastic 500ml - with Nitric Acid	<2		
MSA-SW41D-071813	240-27038-D-20	Plastic 500ml - with Nitric Acid	<2		
MSA-SW42A-071813	240-27038-D-21	Plastic 500ml - with Nitric Acid	<2		
MSA-SW42B-071813	240-27038-D-22	Plastic 500ml - with Nitric Acid	<2		
MSA-SW42C-071813	240-27038-D-23	Plastic 500ml - with Nitric Acid	<2		
MSA-SW42D-071813	240-27038-D-24	Plastic 500ml - with Nitric Acid	<2		
MSA-SW43A-071813	240-27038-D-25	Plastic 500ml - with Nitric Acid	<2		
MSA-SW43B-071813	240-27038-D-26	Plastic 500ml - with Nitric Acid	<2		
MSA-SW43C-071813	240-27038-D-27	Plastic 500ml - with Nitric Acid	<2		
MSA-SW43D-071813	240-27038-D-28	Plastic 500ml - with Nitric Acid	<2		
MSA-SW44A-071813	240-27038-D-29	Plastic 500ml - with Nitric Acid	<2		
MSA-SW44B-071813	240-27038-D-30	Plastic 500ml - with Nitric Acid	<2		
MSA-SW44C-071813	240-27038-D-31	Plastic 500ml - with Nitric Acid	<2		
MSA-SW44D-071813	240-27038-D-32	Plastic 500ml - with Nitric Acid	<2		
MSA-SW45A-071813	240-27038-D-33	Plastic 500ml - with Nitric Acid	<2		
MSA-SW45B-071813	240-27038-D-34	Plastic 500ml - with Nitric Acid	<2		
MSA-SW45C-071813	240-27038-D-35	Plastic 500ml - with Nitric Acid	<2		
MSA-SW45D-071813	240-27038-D-36	Plastic 500ml - with Nitric Acid	<2		

CASE NARRATIVE

Client: Tetra Tech, Inc

Project: MSA Surface Water

Report Number: 240-27038-1

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 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 07/19/2013; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 1.4 and 2.0 C.

VOLATILE ORGANIC COMPOUNDS (GCMS)
Samples MSA-SW37A-071813 (240-27038-1), MSA-SW37B-071813 (240-27038-2), MSA-SW37C-071813 (240-27038-3), MSA-SW37D-071813 (240-27038-4), MSA-SW38A-071813 (240-27038-5), MSA-SW38B-071813 (240-27038-6), MSA-SW38C-071813 (240-27038-7), MSA-SW38D-071813 (240-27038-8), MSA-SW39A-071813 (240-27038-9), MSA-SW39B-071813 (240-27038-10), MSA-SW39C-071813 (240-27038-11), MSA-SW39D-071813 (240-27038-12), MSA-SW40A-071813 (240-27038-13), MSA-SW40B-071813 (240-27038-14), MSA-SW40C-071813 (240-27038-15), MSA-SW40D-071813 (240-27038-16), MSA-SW41A-071813 (240-27038-17), MSA-SW41B-071813 (240-27038-18), MSA-SW41C-071813 (240-27038-19), MSA-SW41D-071813 (240-27038-20), MSA-SW42A-071813 (240-27038-21), MSA-SW42B-071813 (240-27038-22), MSA-SW42C-071813 (240-27038-23), MSA-SW42D-071813 (240-27038-24), MSA-SW43A-071813 (240-27038-25), MSA-SW43B-071813 (240-27038-26), MSA-SW43C-071813 (240-27038-27), MSA-SW43D-071813 (240-27038-28), MSA-SW44A-071813 (240-27038-29), MSA-SW44B-071813 (240-27038-30), MSA-SW44C-071813 (240-27038-31), MSA-SW44D-071813 (240-27038-32), MSA-SW45A-071813 (240-27038-33), MSA-SW45B-071813 (240-27038-34), MSA-SW45C-071813 (240-27038-35), MSA-SW45D-071813 (240-27038-36), EL-SW01A-071813 (240-27038-37), EL-SW01B-071813 (240-27038-38), EL-SW01C-071813 (240-27038-39), EL-SW01D-071813 (240-27038-40) and TB-071813 (240-27038-41) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 07/22/2013, 07/23/2013 and 07/24/2013.

Hexachlorobutadiene was detected in method blank MB 240-94518/5 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. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Methylene Chloride was detected in method blank MB 240-94651/6 at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Acetone and Methylene Chloride were detected in method blank MB 240-94801/6 at levels exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

No MS/MSD in batch 94518 due to rush requirements and capacity.

The following sample(s) submitted for volatiles analysis was received with insufficient preservation (pH >2): MSA-SW44C-071813 (240-27038-31).

The laboratory control sample (LCS) for batch 94651 recovered outside control limits for the following analyte(s): 1,2,3-Trichlorobenzene--has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

The laboratory control sample(LCS) for batch 94801 recovered outside control limits for the following analyte(s): 1,2,3-Trichlorobenzene--has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

No other difficulties were encountered during the VOCs analysis. All other quality control parameters were within the acceptance limits.

DISSOLVED METALS (ICPMS)
Samples MSA-SW37A-071813 (240-27038-1), MSA-SW37B-071813 (240-27038-2), MSA-SW37C-071813 (240-27038-3), MSA-SW37D-071813 (240-27038-4), MSA-SW38A-071813 (240-27038-5), MSA-SW38B-071813 (240-27038-6), MSA-SW38C-071813 (240-27038-7), MSA-SW38D-071813 (240-27038-8), MSA-SW39A-071813 (240-27038-9), MSA-SW39B-071813 (240-27038-10), MSA-SW39C-071813 (240-27038-11), MSA-SW39D-071813 (240-27038-12), MSA-SW40A-071813 (240-27038-13), MSA-SW40B-071813 (240-27038-14), MSA-SW40C-071813 (240-27038-15), MSA-SW40D-071813 (240-27038-16), MSA-SW41A-071813 (240-27038-17), MSA-SW41B-071813 (240-27038-18), MSA-SW41C-071813 (240-27038-19), MSA-SW41D-071813 (240-27038-20), MSA-SW42A-071813 (240-27038-21), MSA-SW42B-071813 (240-27038-22), MSA-SW42C-071813 (240-27038-23), MSA-SW42D-071813 (240-27038-24), MSA-SW43A-071813 (240-27038-25), MSA-SW43B-071813 (240-27038-26), MSA-SW43C-071813 (240-27038-27), MSA-SW43D-071813 (240-27038-28), MSA-SW44A-071813 (240-27038-29), MSA-SW44B-071813 (240-27038-30), MSA-SW44C-071813 (240-27038-31), MSA-SW44D-071813 (240-27038-32), MSA-SW45A-071813 (240-27038-33), MSA-SW45B-071813 (240-27038-34), MSA-SW45C-071813 (240-27038-35) and MSA-SW45D-071813 (240-27038-36) were analyzed for dissolved metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 07/22/2013 and analyzed on 07/23/2013 and 07/24/2013.

Copper was detected in method blank MB 240-94369/1-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 flagged.

Arsenic, Beryllium, Calcium and Vanadium were detected in method blank MB 240-94369/1-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. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Several analytes were detected in method blank MB 240-94371/1-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. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

No other difficulties were encountered during the metals analysis. All quality control parameters were within the acceptance limits.

DISSOLVED MERCURY (CVAA)
Samples MSA-SW37A-071813 (240-27038-1), MSA-SW37B-071813 (240-27038-2), MSA-SW37C-071813 (240-27038-3), MSA-SW37D-071813 (240-27038-4), MSA-SW38A-071813 (240-27038-5), MSA-SW38B-071813 (240-27038-6), MSA-SW38C-071813 (240-27038-7), MSA-SW38D-071813 (240-27038-8), MSA-SW39A-071813 (240-27038-9), MSA-SW39B-071813 (240-27038-10), MSA-SW39C-071813 (240-27038-11), MSA-SW39D-071813 (240-27038-12), MSA-SW40A-071813 (240-27038-13), MSA-SW40B-071813 (240-27038-14), MSA-SW40C-071813 (240-27038-15), MSA-SW40D-071813 (240-27038-16), MSA-SW41A-071813 (240-27038-17), MSA-SW41B-071813 (240-27038-18), MSA-SW41C-071813 (240-27038-19), MSA-SW41D-071813 (240-27038-20), MSA-SW42A-071813 (240-27038-21), MSA-SW42B-071813 (240-27038-22), MSA-SW42C-071813 (240-27038-23), MSA-SW42D-071813 (240-27038-24), MSA-SW43A-071813 (240-27038-25), MSA-SW43B-071813 (240-27038-26), MSA-SW43C-071813 (240-27038-27), MSA-SW43D-071813 (240-27038-28), MSA-SW44A-071813 (240-27038-29), MSA-SW44B-071813 (240-27038-30), MSA-SW44C-071813 (240-27038-31), MSA-SW44D-071813 (240-27038-32), MSA-SW45A-071813 (240-27038-33), MSA-SW45B-071813 (240-27038-34), MSA-SW45C-071813 (240-27038-35) and MSA-SW45D-071813 (240-27038-36) were analyzed for dissolved mercury (CVAA) in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 07/22/2013 and analyzed on 07/23/2013.

No difficulties were encountered during the mercury analysis. All quality control parameters were within the acceptance limits.

TOTAL HARDNESS (AS CACO3) BY CALCULATION-DISSOLVED
Samples MSA-SW37A-071813 (240-27038-1), MSA-SW37B-071813 (240-27038-2), MSA-SW37C-071813 (240-27038-3), MSA-SW37D-071813 (240-27038-4), MSA-SW38A-071813 (240-27038-5), MSA-SW38B-071813 (240-27038-6), MSA-SW38C-071813 (240-27038-7), MSA-SW38D-071813 (240-27038-8), MSA-SW39A-071813 (240-27038-9), MSA-SW39B-071813 (240-27038-10), MSA-SW39C-071813 (240-27038-11), MSA-SW39D-071813 (240-27038-12), MSA-SW40A-071813 (240-27038-13), MSA-SW40B-071813 (240-27038-14), MSA-SW40C-071813 (240-27038-15), MSA-SW40D-071813 (240-27038-16), MSA-SW41A-071813 (240-27038-17), MSA-SW41B-071813 (240-27038-18), MSA-SW41C-071813 (240-27038-19), MSA-SW41D-071813 (240-27038-20), MSA-SW42A-071813 (240-27038-21), MSA-SW42B-071813 (240-27038-22), MSA-SW42C-071813 (240-27038-23), MSA-SW42D-071813 (240-27038-24), MSA-SW43A-071813 (240-27038-25), MSA-SW43B-071813 (240-27038-26), MSA-SW43C-071813 (240-27038-27), MSA-SW43D-071813 (240-27038-28), MSA-SW44A-071813 (240-27038-29), MSA-SW44B-071813 (240-27038-30), MSA-SW44C-071813 (240-27038-31), MSA-SW44D-071813 (240-27038-32), MSA-SW45A-071813 (240-27038-33), MSA-SW45B-071813 (240-27038-34), MSA-SW45C-071813 (240-27038-35) and MSA-SW45D-071813 (240-27038-36) were analyzed for dissolved hardness (as $CaCO_3$) by

calculation in accordance with SM 2340B. The samples were analyzed on 07/26/2013.

No difficulties were encountered during the hardness analysis. All quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: Tetra Tech, Inc

Job Number: 240-27038-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
240-27038-1	MSA-SW37A-071813	Water	07/18/2013 1400	07/19/2013 0925
240-27038-2	MSA-SW37B-071813	Water	07/18/2013 1403	07/19/2013 0925
240-27038-3	MSA-SW37C-071813	Water	07/18/2013 1408	07/19/2013 0925
240-27038-4	MSA-SW37D-071813	Water	07/18/2013 1415	07/19/2013 0925
240-27038-5	MSA-SW38A-071813	Water	07/18/2013 1258	07/19/2013 0925
240-27038-6	MSA-SW38B-071813	Water	07/18/2013 1302	07/19/2013 0925
240-27038-7	MSA-SW38C-071813	Water	07/18/2013 1306	07/19/2013 0925
240-27038-8	MSA-SW38D-071813	Water	07/18/2013 1310	07/19/2013 0925
240-27038-9	MSA-SW39A-071813	Water	07/18/2013 1015	07/19/2013 0925
240-27038-10	MSA-SW39B-071813	Water	07/18/2013 1021	07/19/2013 0925
240-27038-11	MSA-SW39C-071813	Water	07/18/2013 1029	07/19/2013 0925
240-27038-12	MSA-SW39D-071813	Water	07/18/2013 1034	07/19/2013 0925
240-27038-13	MSA-SW40A-071813	Water	07/18/2013 1316	07/19/2013 0925
240-27038-14	MSA-SW40B-071813	Water	07/18/2013 1321	07/19/2013 0925
240-27038-15	MSA-SW40C-071813	Water	07/18/2013 1326	07/19/2013 0925
240-27038-16	MSA-SW40D-071813	Water	07/18/2013 1332	07/19/2013 0925
240-27038-17	MSA-SW41A-071813	Water	07/18/2013 1241	07/19/2013 0925
240-27038-18	MSA-SW41B-071813	Water	07/18/2013 1245	07/19/2013 0925
240-27038-19	MSA-SW41C-071813	Water	07/18/2013 1249	07/19/2013 0925
240-27038-20	MSA-SW41D-071813	Water	07/18/2013 1252	07/19/2013 0925
240-27038-21	MSA-SW42A-071813	Water	07/18/2013 1337	07/19/2013 0925
240-27038-22	MSA-SW42B-071813	Water	07/18/2013 1342	07/19/2013 0925
240-27038-23	MSA-SW42C-071813	Water	07/18/2013 1347	07/19/2013 0925
240-27038-24	MSA-SW42D-071813	Water	07/18/2013 1351	07/19/2013 0925
240-27038-25	MSA-SW43A-071813	Water	07/18/2013 1219	07/19/2013 0925
240-27038-26	MSA-SW43B-071813	Water	07/18/2013 1226	07/19/2013 0925
240-27038-27	MSA-SW43C-071813	Water	07/18/2013 1230	07/19/2013 0925
240-27038-28	MSA-SW43D-071813	Water	07/18/2013 1234	07/19/2013 0925
240-27038-29	MSA-SW44A-071813	Water	07/18/2013 1115	07/19/2013 0925
240-27038-30	MSA-SW44B-071813	Water	07/18/2013 1122	07/19/2013 0925
240-27038-31	MSA-SW44C-071813	Water	07/18/2013 1125	07/19/2013 0925
240-27038-32	MSA-SW44D-071813	Water	07/18/2013 1131	07/19/2013 0925
240-27038-33	MSA-SW45A-071813	Water	07/18/2013 1047	07/19/2013 0925
240-27038-34	MSA-SW45B-071813	Water	07/18/2013 1053	07/19/2013 0925
240-27038-35	MSA-SW45C-071813	Water	07/18/2013 1100	07/19/2013 0925
240-27038-36	MSA-SW45D-071813	Water	07/18/2013 1105	07/19/2013 0925
240-27038-37	EL-SW01A-071813	Water	07/18/2013 0926	07/19/2013 0925
240-27038-38	EL-SW01B-071813	Water	07/18/2013 0942	07/19/2013 0925
240-27038-39	EL-SW01C-071813	Water	07/18/2013 0947	07/19/2013 0925
240-27038-40	EL-SW01D-071813	Water	07/18/2013 0951	07/19/2013 0925
240-27038-41	TB-071813	Water	07/18/2013 0000	07/19/2013 0925

METHOD SUMMARY

Client: Tetra Tech, Inc   Job Number: 240-27038-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Priority Pollutants	TAL CAN	SW846 8260B	
Purge and Trap	TAL CAN		SW846 5030B
Metals (ICP/MS)	TAL CAN	SW846 6020	
Preparation, Total Recoverable or Dissolved Metals	TAL CAN		SW846 3005A
Sample Filtration, Field			FIELD_FLTRD
Mercury (CVAA)	TAL CAN	SW846 7470A	
Preparation, Mercury	TAL CAN		SW846 7470A
Sample Filtration, Field			FIELD_FLTRD
Total Hardness (as CaCO3) by calculation	TAL CAN	SM SM 2340B	
Sample Filtration, Field			FIELD_FLTRD

Lab References:

TAL CAN = TestAmerica Canton

Method References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton　　Job No.: 240-27038-1

SDG No.:

Lab File ID: BFB224.D　　BFB Injection Date: 05/07/2013

Instrument ID: A3UX17　　BFB Injection Time: 11:36

Analysis Batch No.: 84979

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.8	
75	30.0 - 60.0 % of mass 95	46.9	
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	0.4	(0.6)1
174	50.0 - 120.00 % of mass 95	75.7	
175	5.0 - 9.0 % of mass 174	5.3	(7.0)1
176	95.0 - 101.0 % of mass 174	76.1	(100.5)1
177	5.0 - 9.0 % of mass 176	4.8	(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
	STDA9 240-84979/8	UXR4181.D	05/07/2013	14:13
	STDA9 240-84979/9	UXR4182.D	05/07/2013	14:35
	STDA9 240-84979/10	UXR4183.D	05/07/2013	14:57
	STDA9 240-84979/11	UXR4184.D	05/07/2013	15:20
	STDA9 240-84979/12	UXR4185.D	05/07/2013	15:42
	STDA9 240-84979/13	UXR4186.D	05/07/2013	16:05

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton   Job No.: 240-27038-1   Analy Batch No.: 84979

SDG No.:

Instrument ID: A3UX17   GC Column: DB-624   ID: 0.18(mm)   Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2013 14:13   Calibration End Date: 05/07/2013 16:05   Calibration ID: 15038

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-84979/13	UXR4186.D
Level 2	STDA9 240-84979/12	UXR4185.D
Level 3	STDA9 240-84979/11	UXR4184.D
Level 4	STDA9 240-84979/10	UXR4183.D
Level 5	STDA9 240-84979/9	UXR4182.D
Level 6	STDA9 240-84979/8	UXR4181.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	0.4720 0.4666	0.4444	0.4425	0.4216	0.4511	Ave		0.4497				4.0		15.0			
Ethyl ether	0.2660 0.2823	0.2592	0.2598	0.2486	0.2724	Ave		0.2647				4.4		15.0			
3-Chloro-1-propene	0.1359 0.1610	0.1324	0.1370	0.1376	0.1525	Ave		0.1427				7.9		15.0			
Diisopropyl ether	0.2473 0.2740	0.2449	0.2495	0.2413	0.2619	Ave		0.2531				4.9		15.0			
2-Chloro-1,3-butadiene	0.4637 0.5263	0.4684	0.4797	0.4705	0.5114	Ave		0.4867				5.3		15.0			
Ethyl-t-butyl ether (ETBE)	0.9024 1.0209	0.8872	0.9050	0.8908	0.9641	Ave		0.9284				5.7		15.0			
Ethyl acetate	0.2738 0.2913	0.2604	0.2567	0.2603	0.2798	Ave		0.2704				5.0		15.0			
Propionitrile	0.0395 0.0446	0.0399	0.0413	0.0388	0.0444	Ave		0.0414				6.1		15.0			
Methacrylonitrile	0.2320 0.1962	0.2047	0.1845	0.1766	0.1935	Ave		0.1979				9.8		15.0			
Isobutyl alcohol	0.0129 0.0119	0.0118	0.0112	0.0113	0.0120	Ave		0.0118				4.9		15.0			
Tert-amyl-methyl ether (TAME)	0.7464 0.8505	0.7381	0.7539	0.7377	0.8150	Ave		0.7736				6.1		15.0			
n-Heptane	0.0701 0.0767	0.0672	0.0711	0.0682	0.0753	Ave		0.0714				5.4		15.0			
n-Butanol	0.0085 0.0102	0.0089	0.0092	0.0093	0.0103	Ave		0.0094				7.5		15.0			
Methyl methacrylate	0.2379 0.2805	0.2371	0.2462	0.2423	0.2654	Ave		0.2516				7.0		15.0			
2-Nitropropane	0.0556 0.0713	0.0560	0.0523	0.0573	0.0637	Ave		0.0594				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.: 240-27038-1 Analy Batch No.: 84979

SDG No.:

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2013 14:13 Calibration End Date: 05/07/2013 16:05 Calibration ID: 15038

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								
Cyclohexanone	0.1022 0.1284	0.1025	0.1176	0.1228	0.1393	Ave		0.1188				12.0		15.0			
1,2,3-Trimethylbenzene	2.3866 2.6962	2.4621	2.4926	2.4662	2.6461	Ave		2.5250				4.7		15.0			
2-Methylnaphthalene	1.5422	1.4901	1.2024	1.0735	0.7790	Ave		1.2174				26.0	*	15.0			
n-Butyl acetate	0.2099 0.2525	0.2109	0.2217	0.2175	0.2461	Ave		0.2264				8.1		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI 8260B

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-27038-1

SDG No.:

Lab File ID: BFB353.D BFB Injection Date: 07/02/2013

Instrument ID: A3UX17 BFB Injection Time: 09:20

Analysis Batch No.: 92260

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.9	
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	6.4	
173	Less than 2.0 % of mass 174	0.6	(0.7)1
174	50.0 - 120.00 % of mass 95	90.4	
175	5.0 - 9.0 % of mass 174	6.3	(7.0)1
176	95.0 - 101.0 % of mass 174	89.1	(98.6)1
177	5.0 - 9.0 % of mass 176	5.3	(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 240-92260/2	UXR6124.D	07/02/2013	09:46
	STD8260 240-92260/3	UXR6125.D	07/02/2013	10:08
	STD8260 240-92260/4	UXR6126.D	07/02/2013	10:31
	STD8260 240-92260/5	UXR6127.D	07/02/2013	10:53
	STD8260 240-92260/6	UXR6128.D	07/02/2013	11:15
	STD8260 240-92260/7	UXR6129.D	07/02/2013	11:37
	ICV 240-92260/8	UXR6130.D	07/02/2013	12:00

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-27038-1 Analy Batch No.: 92260

SDG No.:

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/02/2013 09:46 Calibration End Date: 07/02/2013 11:37 Calibration ID: 16141

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-92260/7	UXR6129.D
Level 2	STD8260 240-92260/6	UXR6128.D
Level 3	STD8260 240-92260/5	UXR6127.D
Level 4	STD8260 240-92260/4	UXR6126.D
Level 5	STD8260 240-92260/3	UXR6125.D
Level 6	STD8260 240-92260/2	UXR6124.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								
Dichlorodifluoromethane	0.3223 0.3393	0.3181	0.3024	0.3004	0.3388	Ave		0.3202				5.3		15.0			
Chloromethane	0.4544 0.4578	0.4523	0.3929	0.4056	0.4875	Ave		0.4418			0.1000	8.0		15.0			
Vinyl chloride	0.4102 0.3798	0.3589	0.3503	0.3461	0.3994	Ave		0.3741				7.1		15.0			
Bromomethane	0.1230 0.1142	0.1222	0.0977	0.1057	0.1303	Ave		0.1155				10.0		15.0			
Chloroethane	0.1129 0.1281	0.1159	0.0846	0.1067	0.1312	Ave		0.1132				15.0		15.0			
Trichlorofluoromethane	0.3421 0.3476	0.3140	0.2938	0.3068	0.3554	Ave		0.3266				7.7		15.0			
Acrolein	0.0511 0.0494	0.0454	0.0435	0.0467	0.0511	Ave		0.0479				6.6		15.0			
1,1-Dichloroethene	0.2571 0.2867	0.2790	0.2658	0.2658	0.3037	Ave		0.2763				6.2		15.0			
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.2376 0.2392	0.2346	0.2256	0.2277	0.2502	Ave		0.2358				3.8		15.0			
Acetone	0.1744 0.0914	0.1137	0.0964	0.0931	0.0997	Lin1	0.0810	0.0920							0.9980		0.9900
Iodomethane	0.3498 0.4346	0.3974	0.3967	0.3960	0.4630	Ave		0.4062				9.5		15.0			
Carbon disulfide	0.7196 0.8532	0.7423	0.7167	0.7319	0.8720	Ave		0.7726				9.1		15.0			
Acetonitrile	0.0456 0.0363	0.0399	0.0281	0.0351	0.0309	Lin1	0.0404	0.0341							0.9910		0.9900
Methyl acetate	0.2619 0.2316	0.2391	0.2253	0.2251	0.2463	Ave		0.2382				6.0		15.0			
Methylene Chloride	1.1339 0.3108	0.5024	0.3675	0.3274	0.3357	Lin1	0.4058	0.3018							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.: 240-27038-1 Analy Batch No.: 92260

SDG No.:

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/02/2013 09:46 Calibration End Date: 07/02/2013 11:37 Calibration ID: 16141

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								
tert-Butyl alcohol	0.0200 0.0192	0.0202	0.0152	0.0193	0.0162	Ave		0.0184				12.0		15.0			
Acrylonitrile	0.1340 0.1211	0.1183	0.1163	0.1204	0.1315	Ave		0.1236				5.9		15.0			
Methyl tert-butyl ether	0.7215 0.7881	0.7180	0.7115	0.7210	0.8152	Ave		0.7459				5.9		15.0			
trans-1,2-Dichloroethene	0.2980 0.3126	0.2933	0.2935	0.2838	0.3255	Ave		0.3011				5.1		15.0			
Hexane	0.0647 0.0811	0.0684	0.0717	0.0771	0.0870	Ave		0.0750				11.0		15.0			
1,1-Dichloroethane	0.4693 0.5520	0.5186	0.5101	0.5082	0.5741	Ave		0.5220			0.1000	7.0		15.0			
Vinyl acetate	0.0413 0.0541	0.0420	0.0414	0.0446	0.0553	Ave		0.0464				14.0		15.0			
2,2-Dichloropropane	0.2591 0.3070	0.2724	0.2646	0.2756	0.3223	Ave		0.2835				8.9		15.0			
cis-1,2-Dichloroethene	0.2858 0.3181	0.3108	0.2951	0.2946	0.3295	Ave		0.3056				5.4		15.0			
2-Butanone	0.1485 0.1278	0.1310	0.1199	0.1285	0.1339	Ave		0.1316				7.2		15.0			
Bromochloromethane	0.1398 0.1527	0.1469	0.1440	0.1386	0.1587	Ave		0.1468				5.3		15.0			
Tetrahydrofuran	0.0722 0.0804	0.0844	0.0811	0.0775	0.0849	Ave		0.0801				5.9		15.0			
Chloroform	0.4852 0.5245	0.4983	0.4978	0.4775	0.5543	Ave		0.5063				5.6		15.0			
1,1,1-Trichloroethane	0.3690 0.4340	0.3962	0.3904	0.4052	0.4480	Ave		0.4071				7.2		15.0			
Cyclohexane	0.4887 0.6445	0.5424	0.5673	0.5896	0.6635	Ave		0.5827				11.0		15.0			
1,1-Dichloropropene	0.3484 0.4169	0.3664	0.3760	0.3807	0.4327	Ave		0.3869				8.2		15.0			
Carbon tetrachloride	0.3418 0.4159	0.3617	0.3578	0.3669	0.4185	Ave		0.3771				8.5		15.0			
Benzene	1.1898 1.1961	1.1603	1.1274	1.1009	1.2515	Ave		1.1710				4.6		15.0			
1,2-Dichloroethane	0.3930 0.4351	0.4136	0.4178	0.4053	0.4559	Ave		0.4201				5.3		15.0			
Trichloroethene	0.2698 0.3135	0.2986	0.2884	0.2943	0.3227	Ave		0.2979				6.3		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.: 240-27038-1 Analy Batch No.: 92260

SDG No.:

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/02/2013 09:46 Calibration End Date: 07/02/2013 11:37 Calibration ID: 16141

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								
Methylcyclohexane	0.4315 0.5318	0.4455	0.4468	0.5032	0.5380	Ave		0.4828				9.8		15.0			
1,2-Dichloropropane	0.2862 0.3044	0.2800	0.2821	0.2832	0.3164	Ave		0.2921				5.1		15.0			
Dibromomethane	0.1395 0.1609	0.1519	0.1489	0.1510	0.1651	Ave		0.1529				5.9		15.0			
1,4-Dioxane	0.0023 0.0025	0.0030	0.0022	0.0030	0.0022	Ave		0.0025				14.0		15.0			
Bromodichloromethane	0.2888 0.3879	0.3306	0.3279	0.3403	0.3820	Ave		0.3429				11.0		15.0			
2-Chloroethyl vinyl ether	0.1405 0.1783	0.1405	0.1501	0.1612	0.1837	Ave		0.1590				12.0		15.0			
cis-1,3-Dichloropropene	0.3115 0.4587	0.3478	0.3667	0.3856	0.4540	Ave		0.3874				15.0		15.0			
4-Methyl-2-pentanone	0.2553 0.2669	0.2545	0.2314	0.2551	0.2782	Ave		0.2569				6.1		15.0			
Toluene	1.3021 1.5660	1.4857	1.5259	1.4959	1.7627	Ave		1.5230				9.7		15.0			
trans-1,3-Dichloropropene	0.3095 0.4917	0.3622	0.4125	0.4256	0.5422	Lin1	-0.156	0.4987							0.9930		0.9900
Ethyl methacrylate	0.2873 0.4520	0.3617	0.3962	0.4120	0.5071	Lin1	-0.128	0.4640							0.9940		0.9900
1,1,2-Trichloroethane	0.2620 0.2919	0.2917	0.3126	0.2924	0.3429	Ave		0.2989				9.0		15.0			
Tetrachloroethene	0.3251 0.3387	0.3449	0.3322	0.3316	0.3809	Ave		0.3422				5.9		15.0			
1,3-Dichloropropane	0.5100 0.5344	0.5403	0.5472	0.5294	0.6145	Ave		0.5460				6.6		15.0			
2-Hexanone	0.2134 0.2235	0.2009	0.2121	0.2203	0.2588	Ave		0.2215				9.0		15.0			
Dibromochloromethane	0.2672 0.3403	0.2767	0.2875	0.3009	0.3614	Ave		0.3056				12.0		15.0			
1,2-Dibromoethane	0.2718 0.3078	0.2933	0.2979	0.2998	0.3406	Ave		0.3019				7.5		15.0			
Chlorobenzene	1.0336 1.0296	1.0736	0.9932	1.0160	1.1012	Ave		1.0412			0.3000	3.8		15.0			
1,1,1,2-Tetrachloroethane	0.3225 0.3679	0.3455	0.3360	0.3498	0.3755	Ave		0.3495				5.6		15.0			
Ethylbenzene	0.4592 0.5652	0.5397	0.5104	0.5432	0.5908	Ave		0.5348				8.6		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.: 240-27038-1 Analy Batch No.: 92260

SDG No.:

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/02/2013 09:46 Calibration End Date: 07/02/2013 11:37 Calibration ID: 16141

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								
m-Xylene & p-Xylene	0.5523 0.7172	0.6526	0.6529	0.7040	0.7434	Ave		0.6704				10.0		15.0			
o-Xylene	0.5596 0.6746	0.6471	0.5751	0.6530	0.6722	Ave		0.6303				8.0		15.0			
Styrene	0.7832 1.1392	1.0109	0.9596	1.1027	1.1554	Ave		1.0252				14.0		15.0			
Bromoform	0.1587 0.2167	0.1855	0.1679	0.1979	0.2112	Ave		0.1896			0.1000	12.0		15.0			
Isopropylbenzene	1.2975 1.7865	1.6058	1.4021	1.7416	1.6737	Ave		1.5846				12.0		15.0			
1,1,2,2-Tetrachloroethane	0.5949 0.5897	0.6942	0.7135	0.6603	0.7537	Ave		0.6677			0.3000	9.9		15.0			
Bromobenzene	0.7409 0.7971	0.8019	0.8706	0.8037	0.9421	Ave		0.8260				8.5		15.0			
trans-1,4-Dichloro-2-butene	0.1420	0.1606	0.1973	0.1818	0.2574	Ave		0.1878				24.0	*	15.0			
1,2,3-Trichloropropane	0.2483 0.2118	0.2361	0.2538	0.2280	0.2714	Ave		0.2416				8.6		15.0			
n-Propylbenzene	0.6211 0.8461	0.7652	0.8446	0.8150	0.9632	Ave		0.8092				14.0		15.0			
2-Chlorotoluene	0.5766 0.7056	0.6461	0.7207	0.7206	0.8083	Ave		0.6963				11.0		15.0			
1,3,5-Trimethylbenzene	1.7328 2.5501	2.3224	2.4151	2.5420	2.7191	Ave		2.3803				14.0		15.0			
4-Chlorotoluene	0.5810 0.7447	0.7173	0.7968	0.7475	0.8723	Ave		0.7433				13.0		15.0			
tert-Butylbenzene	1.7565 2.2855	2.0708	2.3638	2.2608	2.4174	Ave		2.1925				11.0		15.0			
1,2,4-Trimethylbenzene	1.7940 2.5755	2.3657	2.3673	2.6187	2.6987	Ave		2.4033				14.0		15.0			
sec-Butylbenzene	2.2505 2.9931	2.8678	2.7937	3.0418	3.0878	Ave		2.8391				11.0		15.0			
1,3-Dichlorobenzene	1.5016 1.4651	1.6322	1.5141	1.5531	1.5720	Ave		1.5397				3.8		15.0			
p-Isopropyltoluene	1.9920 2.7142	2.5267	2.3747	2.7364	2.7397	Ave		2.5139				12.0		15.0			
1,4-Dichlorobenzene	1.6614 1.5087	1.6864	1.5588	1.5856	1.6207	Ave		1.6036				4.1		15.0			
n-Butylbenzene	1.9502 2.2067	2.0766	1.8145	2.2005	2.1637	Ave		2.0687				7.6		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.: 240-27038-1   Analy Batch No.: 92260

SDG No.:

Instrument ID: A3UX17   GC Column: DB-624   ID: 0.18(mm)   Heated Purge: (Y/N) N

Calibration Start Date: 07/02/2013 09:46   Calibration End Date: 07/02/2013 11:37   Calibration ID: 16141

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								
1,2-Dichlorobenzene	1.5565 1.3566	1.5885	1.3652	1.4847	1.4246	Ave		1.4627				6.7		15.0			
1,2-Dibromo-3-Chloropropane	0.1083 0.0945	0.1134	0.0988	0.1178	0.1139	Ave		0.1078				8.6		15.0			
1,3,5-Trichlorobenzene	1.4227 1.0423	1.1833	0.9899	1.1825	1.1199	Ave		1.1568				13.0		15.0			
1,2,4-Trichlorobenzene	1.3992 0.7944	1.0485	0.9061	0.9889	1.0932	Qua	-0.814	1.3217	-0.013						0.9940		0.9900
Hexachlorobutadiene	0.8577 0.4096	0.5785	0.4643	0.5487	0.5226	Qua	-0.164	0.6234	-0.005						0.9980		0.9900
Naphthalene	2.3471	1.7820	1.7350	1.9088	2.0992	Ave		1.9744				13.0		15.0			
1,2,3-Trichlorobenzene	1.5049	0.9894	0.9304	0.8656	1.0349	Lin1	0.1955	0.9536							0.9900		0.9900
Dibromofluoromethane (Surr)	0.2570 0.2718	0.2401	0.2412	0.2422	0.2860	Ave		0.2564				7.4		15.0			
1,2-Dichloroethane-d4 (Surr)	0.3673 0.3525	0.3374	0.3278	0.3244	0.3727	Ave		0.3470				5.9		15.0			
Toluene-d8 (Surr)	1.3184 1.3778	1.2295	1.3293	1.2752	1.5607	Ave		1.3485				8.6		15.0			
4-Bromofluorobenzene (Surr)	0.5042 0.5333	0.5117	0.4346	0.5246	0.5224	Ave		0.5052				7.1		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
No samples

Lab Name: TestAmerica Canton   Job No.: 240-27038-1

SDG No.:

Lab Sample ID: ICV 240-92260/8   Calibration Date: 07/02/2013 12:00

Instrument ID: A3UX17   Calib Start Date: 07/02/2013 09:46

GC Column: DB-624   ID: 0.18(mm)   Calib End Date: 07/02/2013 11:37

Lab File ID: UXR6130.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	0.3202	0.2957		1.00	0.0100	-7.7	50.0
Chloromethane	Ave	0.4418	0.4174	0.1000	1.00	0.0100	-5.5	50.0
Vinyl chloride	Ave	0.3741	0.3615		1.00	0.0100	-3.4	20.0
Bromomethane	Ave	0.1155	0.0997		1.00	0.0100	-13.7	50.0
Chloroethane	Ave	0.1132	0.0945		1.00	0.0100	-16.5	50.0
Trichlorofluoromethane	Ave	0.3266	0.3057		1.00	0.0100	-6.4	50.0
Acrolein	Ave	0.0479	0.0405		20.0	0.0300	-15.4	50.0
1,1-Dichloroethene	Ave	0.2763	0.2831		1.00	0.0100	2.4	20.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Ave	0.2358	0.2478		1.00	0.0100	5.1	50.0
Acetone	Linl		0.0790		10.0	0.0200	-18.6	50.0
Iodomethane	Ave	0.4062	0.4026		1.00	0.0100	-0.9	50.0
Carbon disulfide	Ave	0.7726	0.8095		1.00	0.0100	4.8	50.0
Acetonitrile	Linl		0.0295		20.0	0.0300	-17.3	50.0
Methyl acetate	Ave	0.2382	0.2401		10.0	0.0100	0.8	50.0
Methylene Chloride	Linl		0.3303		1.00	0.0100	-4.0	50.0
tert-Butyl alcohol	Ave	0.0184	0.0153		50.0	0.200	-16.6	50.0
Acrylonitrile	Ave	0.1236	0.1209		20.0	0.0300	-2.1	50.0
Methyl tert-butyl ether	Ave	0.7459	0.7409		1.00	0.0100	-0.7	50.0
trans-1,2-Dichloroethene	Ave	0.3011	0.3005		1.00	0.0100	-0.2	50.0
Hexane	Ave	0.0750	0.0821		1.00	0.0100	9.5	20.0
1,1-Dichloroethane	Ave	0.5220	0.5326	0.1000	1.00	0.0100	2.0	50.0
Vinyl acetate	Ave	0.0464	0.0513		2.00	0.0100	10.5	50.0
2,2-Dichloropropane	Ave	0.2835	0.2664		1.00	0.0100	-6.0	50.0
cis-1,2-Dichloroethene	Ave	0.3056	0.3185		1.00	0.0100	4.2	50.0
2-Butanone	Ave	0.1316	0.1192		10.0	0.0200	-9.4	50.0
Bromochloromethane	Ave	0.1468	0.1465		1.00	0.0100	-0.2	50.0
Tetrahydrofuran	Ave	0.0801	0.0783		5.00	0.0100	-2.3	50.0
Chloroform	Ave	0.5063	0.5069		1.00	0.0100	0.1	20.0
1,1,1-Trichloroethane	Ave	0.4071	0.4101		1.00	0.0100	0.7	50.0
Cyclohexane	Ave	0.5827	0.5848		1.00	0.0100	0.4	50.0
1,1-Dichloropropene	Ave	0.3869	0.3863		1.00	0.0100	-0.2	50.0
Carbon tetrachloride	Ave	0.3771	0.3705		1.00	0.0100	-1.8	50.0
Benzene	Ave	1.171	1.168		1.00	0.0100	-0.3	50.0
1,2-Dichloroethane	Ave	0.4201	0.4331		1.00	0.0100	3.1	50.0
Trichloroethene	Ave	0.2979	0.3031		1.00	0.0100	1.8	50.0
Methylcyclohexane	Ave	0.4828	0.4576		1.00	0.0100	-5.2	50.0
1,2-Dichloropropane	Ave	0.2921	0.2926		1.00	0.0100	0.2	20.0
Dibromomethane	Ave	0.1529	0.1597		1.00	0.0100	4.5	50.0
Bromodichloromethane	Ave	0.3429	0.3572		1.00	0.0100	4.2	50.0
2-Chloroethyl vinyl ether	Ave	0.1590	0.1527		10.0	0.0100	-4.0	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton   Job No.: 240-27038-1

SDG No.:

Lab Sample ID: ICV 240-92260/8   Calibration Date: 07/02/2013 12:00

Instrument ID: A3UX17   Calib Start Date: 07/02/2013 09:46

GC Column: DB-624   ID: 0.18(mm)   Calib End Date: 07/02/2013 11:37

Lab File ID: UXR6130.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	0.3874	0.3849		1.00	0.0100	-0.7	50.0
4-Methyl-2-pentanone	Ave	0.2569	0.2551		10.0	0.0200	-0.7	50.0
Toluene	Ave	1.523	1.556		1.00	0.0100	2.2	20.0
trans-1,3-Dichloropropene	Lin1		0.4292		1.00	0.0100	-10.8	50.0
1,1,2-Trichloroethane	Ave	0.2989	0.3175		1.00	0.0100	6.2	50.0
Tetrachloroethene	Ave	0.3422	0.3309		1.00	0.0100	-3.3	50.0
1,3-Dichloropropane	Ave	0.5460	0.5534		1.00	0.0100	1.4	50.0
2-Hexanone	Ave	0.2215	0.2145		10.0	0.0200	-3.1	50.0
Dibromochloromethane	Ave	0.3056	0.3086		1.00	0.0100	1.0	50.0
1,2-Dibromoethane	Ave	0.3019	0.3024		1.00	0.0100	0.2	50.0
Chlorobenzene	Ave	1.041	0.997	0.3000	1.00	0.0100	-4.2	50.0
1,1,1,2-Tetrachloroethane	Ave	0.3495	0.3266		1.00	0.0100	-6.6	50.0
Ethylbenzene	Ave	0.5348	0.5117		1.00	0.0100	-4.3	20.0
m-Xylene & p-Xylene	Ave	0.6704	0.6472		2.00	0.0200	-3.5	50.0
o-Xylene	Ave	0.6303	0.5908		1.00	0.0100	-6.3	50.0
Styrene	Ave	1.025	1.007		1.00	0.0100	-1.7	50.0
Bromoform	Ave	0.1896	0.1829	0.1000	1.00	0.0100	-3.6	50.0
Isopropylbenzene	Ave	1.585	1.425		1.00	0.0100	-10.0	50.0
1,1,2,2-Tetrachloroethane	Ave	0.6677	0.6837	0.3000	1.00	0.0100	2.4	50.0
Bromobenzene	Ave	0.8260	0.8468		1.00	0.0100	2.5	50.0
1,2,3-Trichloropropane	Ave	0.2416	0.2439		1.00	0.0100	1.0	50.0
trans-1,4-Dichloro-2-butene	Ave	0.1878	0.2049		1.00	0.0200	9.1	50.0
n-Propylbenzene	Ave	0.8092	0.8646		1.00	0.0100	6.8	50.0
2-Chlorotoluene	Ave	0.6963	0.6948		1.00	0.0100	-0.2	50.0
1,3,5-Trimethylbenzene	Ave	2.380	2.375		1.00	0.0100	-0.2	50.0
4-Chlorotoluene	Ave	0.7433	0.7522		1.00	0.0100	1.2	50.0
tert-Butylbenzene	Ave	2.192	2.026		1.00	0.0100	-7.6	50.0
1,2,4-Trimethylbenzene	Ave	2.403	2.377		1.00	0.0100	-1.1	50.0
sec-Butylbenzene	Ave	2.839	2.657		1.00	0.0100	-6.4	50.0
1,3-Dichlorobenzene	Ave	1.540	1.413		1.00	0.0100	-8.2	50.0
p-Isopropyltoluene	Ave	2.514	2.354		1.00	0.0100	-6.4	50.0
1,4-Dichlorobenzene	Ave	1.604	1.414		1.00	0.0100	-11.8	50.0
n-Butylbenzene	Ave	2.069	1.785		1.00	0.0100	-13.7	50.0
1,2-Dichlorobenzene	Ave	1.463	1.260		1.00	0.0100	-13.8	50.0
1,2-Dibromo-3-Chloropropane	Ave	0.1078	0.0851		2.00	0.0100	-21.0	50.0
1,2,4-Trichlorobenzene	Qua		0.6063		1.00	0.0100	-45.1	50.0
Hexachlorobutadiene	Qua		0.3045		1.00	0.0100	-46.1	50.0
Naphthalene	Ave	1.974	1.026		1.00	0.0100	-48.1	50.0
1,2,3-Trichlorobenzene	Lin1		0.5077		1.00	0.0100	-48.8	50.0
Dibromofluoromethane (Surr)	Ave	0.2564	0.2340		0.00813	0.00891	-8.7	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3470	0.3072		0.00789	0.00891	-11.5	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton   Job No.: 240-27038-1

SDG No.:

Lab Sample ID: ICV 240-92260/8   Calibration Date: 07/02/2013 12:00

Instrument ID: A3UX17   Calib Start Date: 07/02/2013 09:46

GC Column: DB-624   ID: 0.18(mm)   Calib End Date: 07/02/2013 11:37

Lab File ID: UXR6130.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	1.349	1.256		0.00830	0.00891	-6.9	50.0
4-Bromofluorobenzene (Surr)	Ave	0.5052	0.4410		0.00778	0.00891	-12.7	50.0

FORM VII 8260B

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton   Job No.: 240-27038-1

SDG No.:

Lab Sample ID: ICV 240-92260/8   Calibration Date: 07/02/2013 12:00

Instrument ID: A3UX17   Calib Start Date: 05/07/2013 14:13

GC Column: DB-624   ID: 0.18(mm)   Calib End Date: 05/07/2013 16:05

Lab File ID: UXR6130.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	0.2647	0.2981		2.00	0.0100	12.6	50.0
Diisopropyl ether	Ave	0.2531	0.2478		10.0	0.0100	-2.1	50.0
Isobutyl alcohol	Ave	0.0118	0.0106		50.0	0.500	-10.2	50.0
Cyclohexanone	Ave	0.1188	0.0201		20.0	0.200	-83.1*	50.0
1,2,3-Trimethylbenzene	Ave	2.525	2.247		0.00890	0.0100	-11.0	50.0

FORM VII 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton   Job No.: 240-27038-1

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 #
MSA-SW37A-071813	240-27038-1	101	88	97	97
MSA-SW37B-071813	240-27038-2	97	91	97	98
MSA-SW37C-071813	240-27038-3	100	86	99	95
MSA-SW37D-071813	240-27038-4	98	92	97	96
MSA-SW38A-071813	240-27038-5	99	89	97	100
MSA-SW38B-071813	240-27038-6	100	93	97	98
MSA-SW38C-071813	240-27038-7	101	92	98	96
MSA-SW38D-071813	240-27038-8	101	89	95	95
MSA-SW39A-071813	240-27038-9	103	92	96	97
MSA-SW39B-071813	240-27038-10	98	92	100	93
MSA-SW39C-071813	240-27038-11	101	91	100	95
MSA-SW39D-071813	240-27038-12	99	93	97	95
MSA-SW40A-071813	240-27038-13	100	90	96	92
MSA-SW40B-071813	240-27038-14	96	87	96	93
MSA-SW40C-071813	240-27038-15	99	94	99	95
MSA-SW40D-071813	240-27038-16	100	89	99	94
MSA-SW41A-071813	240-27038-17	102	94	96	89
MSA-SW41B-071813	240-27038-18	99	94	100	94
MSA-SW41C-071813	240-27038-19	98	94	99	94
MSA-SW41D-071813	240-27038-20	98	92	96	95
MSA-SW42A-071813	240-27038-21	102	91	80	78
MSA-SW42B-071813	240-27038-22	96	87	76	69
MSA-SW42C-071813	240-27038-23	101	91	79	73
MSA-SW42D-071813	240-27038-24	98	88	78	72
MSA-SW43A-071813	240-27038-25	109	97	83	76
MSA-SW43B-071813	240-27038-26	101	92	79	72
MSA-SW43C-071813	240-27038-27	107	97	80	73
MSA-SW43D-071813	240-27038-28	101	96	74	67
MSA-SW44A-071813	240-27038-29	104	95	80	73
MSA-SW44B-071813	240-27038-30	100	91	76	70
MSA-SW44C-071813	240-27038-31	102	91	75	72
MSA-SW44D-071813	240-27038-32	98	93	75	71
MSA-SW45A-071813	240-27038-33	103	93	76	71
MSA-SW45B-071813	240-27038-34	104	94	76	71
MSA-SW45C-071813	240-27038-35	100	91	75	70

	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.: 240-27038-1

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 #
MSA-SW45D-071813	240-27038-36	101	94	75	69
EL-SW01A-071813	240-27038-37	103	94	76	70
EL-SW01B-071813	240-27038-38	108	97	80	72
EL-SW01C-071813	240-27038-39	104	95	76	71
EL-SW01D-071813	240-27038-40	101	92	74	68
TB-071813	240-27038-41	106	94	82	77
	MB 240-94518/5	100	89	100	95
	MB 240-94651/6	108	97	83	80
	MB 240-94801/6	95	88	77	73
	LCS 240-94518/6	97	88	98	102
	LCS 240-94651/4	88	81	84	93
	LCS 240-94801/4	92	82	84	93
MSA-SW42A-071813 MS	240-27038-21 MS	93	82	83	91
MSA-SW42A-071813 MSD	240-27038-21 MSD	95	86	85	94

	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 VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton | Job No.: 240-27038-1

SDG No.:

Sample No.: STD8260 240-92260/4 | Date Analyzed: 07/02/2013 10:31

Instrument ID: A3UX17 | GC Column: DB-624 | ID: 0.18(mm)

Lab File ID (Standard): UXR6126.D | Heated Purge: (Y/N) N

Calibration ID: 16141

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1341606	5.76	1090840	8.48	658450	10.72
UPPER LIMIT		2683212	6.26	2181680	8.98	1316900	11.22
LOWER LIMIT		670803	5.26	545420	7.98	329225	10.22
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-92260/8		1263222	5.76	971310	8.48	471339	10.72
CCVIS 240-94651/2		1502938	5.76	1238267	8.48	642437	10.72
CCVIS 240-94801/2		1486358	5.76	1304581	8.48	804016	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.: 240-27038-1

SDG No.:

Sample No.: CCVIS 240-94651/2 Date Analyzed: 07/23/2013 14:08

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXR6544.D Heated Purge: (Y/N) N

Calibration ID: 16141

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1502938	5.76	1238267	8.48	642437	10.72
UPPER LIMIT		3005876	6.26	2476534	8.98	1284874	11.22
LOWER LIMIT		751469	5.26	619134	7.98	321219	10.22
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 240-94651/3		1603372	5.76	1281058	8.48	653833	10.72
LCS 240-94651/4		1591977	5.76	1371705	8.48	837540	10.72
MB 240-94651/6		1257024	5.76	1126346	8.48	577894	10.72
240-27038-21	MSA-SW42A-071813	1327841	5.76	1150775	8.48	586588	10.72
240-27038-22	MSA-SW42B-071813	1371208	5.76	1214481	8.48	626219	10.72
240-27038-23	MSA-SW42C-071813	1367462	5.78	1185108	8.48	624094	10.72
240-27038-24	MSA-SW42D-071813	1368842	5.76	1178516	8.48	610072	10.72
240-27038-25	MSA-SW43A-071813	1235524	5.76	1084973	8.48	555377	10.72
240-27038-26	MSA-SW43B-071813	1300773	5.76	1147962	8.48	589436	10.72
240-27038-27	MSA-SW43C-071813	1269239	5.76	1120320	8.48	567681	10.72
240-27038-28	MSA-SW43D-071813	1274241	5.76	1160664	8.48	598957	10.72
240-27038-29	MSA-SW44A-071813	1303516	5.78	1153362	8.48	595953	10.72
240-27038-30	MSA-SW44B-071813	1290976	5.76	1141443	8.48	590323	10.72
240-27038-31	MSA-SW44C-071813	1271815	5.76	1144815	8.48	572399	10.73
240-27038-32	MSA-SW44D-071813	1287647	5.76	1117537	8.48	591625	10.72
240-27038-33	MSA-SW45A-071813	1289207	5.76	1141757	8.48	585065	10.72
240-27038-34	MSA-SW45B-071813	1251667	5.76	1129404	8.48	579317	10.72
240-27038-35	MSA-SW45C-071813	1255753	5.76	1114911	8.48	592597	10.72
240-27038-36	MSA-SW45D-071813	1270385	5.76	1110115	8.48	558707	10.72
240-27038-37	EL-SW01A-071813	1237754	5.76	1096993	8.48	572474	10.72
240-27038-38	EL-SW01B-071813	1215337	5.78	1088788	8.48	550407	10.72
240-27038-39	EL-SW01C-071813	1215054	5.76	1082526	8.48	551026	10.72
240-27038-40	EL-SW01D-071813	1254137	5.76	1117536	8.48	559088	10.72
240-27038-21 MS	MSA-SW42A-071813 MS	1404083	5.76	1215971	8.48	779168	10.72
240-27038-21 MSD	MSA-SW42A-071813 MSD	1453132	5.76	1251068	8.48	796635	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.: 240-27038-1

SDG No.:

Sample No.: CCVIS 240-94801/2   Date Analyzed: 07/24/2013 11:34

Instrument ID: A3UX17   GC Column: DB-624   ID: 0.18(mm)

Lab File ID (Standard): UXR6571.D   Heated Purge: (Y/N) N

Calibration ID: 16141

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1486358	5.76	1304581	8.48	804016	10.72
UPPER LIMIT		2972716	6.26	2609162	8.98	1608032	11.22
LOWER LIMIT		743179	5.26	652291	7.98	402008	10.22
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 240-94801/3		1569207	5.76	1264284	8.48	658396	10.72
LCS 240-94801/4		1510328	5.76	1299039	8.48	795501	10.72
MB 240-94801/6		1348899	5.76	1168822	8.48	595237	10.72
240-27038-41	TB-071813	1301210	5.76	1135215	8.48	584829	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.: 240-27038-1

SDG No.:

Sample No.: STD8260 240-94035/6   Date Analyzed: 07/17/2013 23:11

Instrument ID: A3UX9   GC Column: DB-624   ID: 0.18(mm)

Lab File ID (Standard): UX938095.D   Heated Purge: (Y/N) N

Calibration ID: 16290

		TBA		FB		14DD8	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1976651	3.32	2726968	5.30	171004	5.86
UPPER LIMIT		3953302	3.82	5453936	5.80	342008	6.36
LOWER LIMIT		988326	2.82	1363484	4.80	85502	5.36
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-94035/16		1975320	3.32	3046016	5.30	178506	5.87
CCVIS 240-94518/3		2386332	3.32	3559211	5.31	189490	5.86

TBA = TBA-d9 (IS)
FB = Fluorobenzene
14DD8 = Dioxane-d8 (IS)

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.: 240-27038-1

SDG No.:

Sample No.: STD8260 240-94035/6 | Date Analyzed: 07/17/2013 23:11

Instrument ID: A3UX9 | GC Column: DB-624 | ID: 0.18(mm)

Lab File ID (Standard): UX938095.D | Heated Purge: (Y/N) N

Calibration ID: 16290

		CBZ		DCB			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1987543	7.96	1033269	10.19		
UPPER LIMIT		3975086	8.46	2066538	10.69		
LOWER LIMIT		993772	7.46	516635	9.69		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-94035/16		2233595	7.96	1155626	10.20		
CCVIS 240-94518/3		2694719	7.96	1381471	10.19		

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.: 240-27038-1

SDG No.:

Sample No.: CCVIS 240-94518/3 Date Analyzed: 07/22/2013 17:39

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UX938155.D Heated Purge: (Y/N) N

Calibration ID: 16300

		TBA		FB		14DD8	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		2386332	3.32	3559211	5.31	189490	5.86
UPPER LIMIT		4772664	3.82	7118422	5.81	378980	6.36
LOWER LIMIT		1193166	2.82	1779606	4.81	94745	5.36
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-94518/6		2400872	3.32	3644146	5.30	183572	5.87
CCV 240-94518/4		2415269	3.32	3467961	5.31	152273	5.86
MB 240-94518/5		2135864	3.32	3458865	5.31	153134	5.86
240-27038-1	MSA-SW37A-071813	2149166	3.32	3479621	5.31	169054	5.86
240-27038-2	MSA-SW37B-071813	2159700	3.32	3446940	5.31	168356	5.86
240-27038-3	MSA-SW37C-071813	2166060	3.32	3438751	5.31	160361	5.86
240-27038-4	MSA-SW37D-071813	2161051	3.32	3449705	5.31	170479	5.86
240-27038-5	MSA-SW38A-071813	2139593	3.32	3395922	5.31	170624	5.86
240-27038-6	MSA-SW38B-071813	2021880	3.32	3346732	5.31	144604	5.86
240-27038-7	MSA-SW38C-071813	2135236	3.32	3345618	5.31	176742	5.86
240-27038-8	MSA-SW38D-071813	2067634	3.32	3326098	5.31	172689	5.86
240-27038-9	MSA-SW39A-071813	2142261	3.32	3345862	5.31	175802	5.86
240-27038-10	MSA-SW39B-071813	2131267	3.32	3353008	5.31	193752	5.86
240-27038-11	MSA-SW39C-071813	1968665	3.32	3344250	5.31	161902	5.86
240-27038-12	MSA-SW39D-071813	2012797	3.32	3283294	5.31	152647	5.86
240-27038-14	MSA-SW40B-071813	2055457	3.32	3365292	5.31	169644	5.86
240-27038-15	MSA-SW40C-071813	2008992	3.32	3215065	5.31	164979	5.86
240-27038-16	MSA-SW40D-071813	2022947	3.32	3288685	5.31	169023	5.86
240-27038-17	MSA-SW41A-071813	1979607	3.32	3292390	5.31	141179	5.86
240-27038-18	MSA-SW41B-071813	1997136	3.32	3293979	5.30	157023	5.85
240-27038-19	MSA-SW41C-071813	1847412	3.32	3185508	5.31	140141	5.86
240-27038-20	MSA-SW41D-071813	1993209	3.32	3328738	5.31	176714	5.86

TBA = TBA-d9 (IS)
FB = Fluorobenzene
14DD8 = Dioxane-d8 (IS)

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.: 240-27038-1

SDG No.:

Sample No.: CCVIS 240-94518/3   Date Analyzed: 07/22/2013 17:39

Instrument ID: A3UX9   GC Column: DB-624   ID: 0.18(mm)

Lab File ID (Standard): UX938155.D   Heated Purge: (Y/N) N

Calibration ID: 16300

		CBZ		DCB			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		2694719	7.96	1381471	10.19		
UPPER LIMIT		5389438	8.46	2762942	10.69		
LOWER LIMIT		1347360	7.46	690736	9.69		
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-94518/6		2728126	7.96	1337289	10.20		
CCV 240-94518/4		2645550	7.96	1288561	10.20		
MB 240-94518/5		2583533	7.96	1271655	10.19		
240-27038-1	MSA-SW37A-071813	2566945	7.96	1236185	10.19		
240-27038-2	MSA-SW37B-071813	2574449	7.96	1189876	10.19		
240-27038-3	MSA-SW37C-071813	2506497	7.96	1207739	10.19		
240-27038-4	MSA-SW37D-071813	2581655	7.96	1245238	10.19		
240-27038-5	MSA-SW38A-071813	2551292	7.96	1257903	10.19		
240-27038-6	MSA-SW38B-071813	2473901	7.96	1188158	10.19		
240-27038-7	MSA-SW38C-071813	2499304	7.96	1220437	10.19		
240-27038-8	MSA-SW38D-071813	2490275	7.96	1205916	10.19		
240-27038-9	MSA-SW39A-071813	2504481	7.96	1217504	10.19		
240-27038-10	MSA-SW39B-071813	2491514	7.96	1218146	10.19		
240-27038-11	MSA-SW39C-071813	2474535	7.96	1191810	10.20		
240-27038-12	MSA-SW39D-071813	2511362	7.96	1225596	10.19		
240-27038-14	MSA-SW40B-071813	2484871	7.96	1237920	10.19		
240-27038-15	MSA-SW40C-071813	2367129	7.96	1198004	10.19		
240-27038-16	MSA-SW40D-071813	2487050	7.96	1217457	10.19		
240-27038-17	MSA-SW41A-071813	2490776	7.96	1213618	10.19		
240-27038-18	MSA-SW41B-071813	2402552	7.96	1185863	10.20		
240-27038-19	MSA-SW41C-071813	2379733	7.96	1126516	10.19		
240-27038-20	MSA-SW41D-071813	2458888	7.96	1152554	10.19		

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

Report Date: 24-Jul-2013 07:58:56 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A3UX9\20130722-21835.b\UX938171.D		
Lims ID:	240-27038-B-13	Client ID:	MSA-SW40A-071813
Inject. Date:	22-Jul-2013 00:00:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0021835-019		
Misc. Info.:			
Operator:	1904	Instrument ID:	A3UX9
Purge Vol:	5.000 mL	ALS Bottle#:	18
Lims Batch ID:	94518	Lims Sample ID:	19
Detector:	MS SCAN		
Method:	\\Ncchrom\ChromData\A3UX9\20130722-21835.b\8260_9.m		
Last Update:	24-Jul-2013 07:58:46	Calib Date:	19-Jul-2013 02:17:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A3UX9\20130718-21750.b\UX938122.D		
Limit Group:	MSV 8260B ICAL		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:	DB-624	Column Dia:	0.18 mm
Process Host:	XAWRK025		
First Level Reviewer: evansle		Date:	24-Jul-2013 07:53:10

IS check

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 2 TBA-d9 (IS)	65	3.318	3.320	-0.002	100	2049867	1000.0	
3 Fluorobenzene	96	5.306	5.308	-0.002	98	3276044	50.0	
1 Dioxane-d8 (IS)	96	5.862	5.864	-0.002	86	135139	1000.0	
4 Chlorobenzene-d5	117	7.957	7.958	-0.001	93	2477907	50.0	
* 5 1,4-Dichlorobenzene-d4	152	10.193	10.195	-0.002	96	1185708	50.0	
$ 7 Dibromofluoromethane (Surr)	113	4.738	4.738	0.0	74	279765	20.1	
$ 8 1,2-Dichloroethane-d4 (Surr)	65	5.022	5.022	0.0	97	458389	18.0	
$ 9 Toluene-d8 (Surr)	98	6.655	6.655	0.0	95	1156136	19.3	
$ 10 4-Bromofluorobenzene (Surr)	95	9.069	9.069	0.0	89	442673	18.4	
18 Dichlorodifluoromethane	85		1.662					9
19 Chloromethane	50		1.804					9
20 Vinyl chloride	62	1.910	1.910	0.0	40	12095	0.3321	
22 Bromomethane	94		2.218					
23 Chloroethane	64		2.313					
25 Trichlorofluoromethane	101		2.514					
30 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.952					
32 Acetone	43		2.952					
31 1,1-Dichloroethene	61		2.952					
34 Carbon disulfide	76		3.165					
38 Methylene Chloride	49		3.366					9
39 2-Methyl-2-propanol	59		3.390					9
41 Methyl tert-butyl ether	73		3.532					9
42 trans-1,2-Dichloroethene	61		3.579					9
44 1,1-Dichloroethane	63		3.887					
45 Vinyl acetate	86		3.910					
46 Isopropyl ether	87		3.923					
48 Tert-butyl ethyl ether	59		4.219					9
50 cis-1,2-Dichloroethene	61	4.360	4.360	0.0	57	19433	0.4978	
49 2-Butanone (MEK)	43		4.360					9
51 2,2-Dichloropropane	77	4.300	4.360	-0.060	10	1079	0.0934	

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-27038-1

SDG No.:

Lab File ID: BFB388.D BFB Injection Date: 07/23/2013

Instrument ID: A3UX17 BFB Injection Time: 13:42

Analysis Batch No.: 94651

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	44.9	
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	0.5	(0.6)1
174	50.0 - 120.00 % of mass 95	97.8	
175	5.0 - 9.0 % of mass 174	6.8	(7.0)1
176	95.0 - 101.0 % of mass 174	98.1	(100.4)1
177	5.0 - 9.0 % of mass 176	6.5	(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 240-94651/2	UXR6544.D	07/23/2013	14:08
	CCV 240-94651/3	UXR6545.D	07/23/2013	14:30
	LCS 240-94651/4	UXR6546.D	07/23/2013	14:53
	MB 240-94651/6	UXR6548.D	07/23/2013	15:37
MSA-SW42A-071813	240-27038-21	UXR6549.D	07/23/2013	16:29
MSA-SW42B-071813	240-27038-22	UXR6550.D	07/23/2013	16:52
MSA-SW42C-071813	240-27038-23	UXR6551.D	07/23/2013	17:14
MSA-SW42D-071813	240-27038-24	UXR6552.D	07/23/2013	17:36
MSA-SW43A-071813	240-27038-25	UXR6553.D	07/23/2013	17:59
MSA-SW43B-071813	240-27038-26	UXR6554.D	07/23/2013	18:21
MSA-SW43C-071813	240-27038-27	UXR6555.D	07/23/2013	18:43
MSA-SW43D-071813	240-27038-28	UXR6556.D	07/23/2013	19:06
MSA-SW44A-071813	240-27038-29	UXR6557.D	07/23/2013	19:28
MSA-SW44B-071813	240-27038-30	UXR6558.D	07/23/2013	19:50
MSA-SW44C-071813	240-27038-31	UXR6559.D	07/23/2013	20:13
MSA-SW44D-071813	240-27038-32	UXR6560.D	07/23/2013	20:35
MSA-SW45A-071813	240-27038-33	UXR6561.D	07/23/2013	20:57
MSA-SW45B-071813	240-27038-34	UXR6562.D	07/23/2013	21:20
MSA-SW45C-071813	240-27038-35	UXR6563.D	07/23/2013	21:42
MSA-SW45D-071813	240-27038-36	UXR6564.D	07/23/2013	22:04
EL-SW01A-071813	240-27038-37	UXR6565.D	07/23/2013	22:26
EL-SW01B-071813	240-27038-38	UXR6566.D	07/23/2013	22:49
EL-SW01C-071813	240-27038-39	UXR6567.D	07/23/2013	23:11
EL-SW01D-071813	240-27038-40	UXR6568.D	07/23/2013	23:33
MSA-SW42A-071813 MS	240-27038-21 MS	UXR6569.D	07/23/2013	23:56
MSA-SW42A-071813 MSD	240-27038-21 MSD	UXR6570.D	07/24/2013	00:18

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton   Job No.: 240-27038-1

SDG No.:

Lab Sample ID: CCVIS 240-94651/2   Calibration Date: 07/23/2013 14:08

Instrument ID: A3UX17   Calib Start Date: 07/02/2013 09:46

GC Column: DB-624   ID: 0.18(mm)   Calib End Date: 07/02/2013 11:37

Lab File ID: UXR6544.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	0.3202	0.3138		1.00	0.0100	-2.0	50.0
Chloromethane	Ave	0.4418	0.4098	0.1000	1.00	0.0100	-7.2	50.0
Vinyl chloride	Ave	0.3741	0.3808		1.00	0.0100	1.8	20.0
Bromomethane	Ave	0.1155	0.1259		1.00	0.0100	9.0	50.0
Chloroethane	Ave	0.1132	0.0945		1.00	0.0100	-16.5	50.0
Trichlorofluoromethane	Ave	0.3266	0.3027		1.00	0.0100	-7.3	50.0
Acrolein	Ave	0.0479	0.0348		20.0	0.100	-27.3	50.0
1,1-Dichloroethene	Ave	0.2763	0.2947		1.00	0.0100	6.6	20.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Ave	0.2358	0.2589		1.00	0.0100	9.8	50.0
Acetone	Lin1		0.0771		10.0	0.0200	-20.6	50.0
Iodomethane	Ave	0.4062	0.3769		1.00	0.0100	-7.2	50.0
Carbon disulfide	Ave	0.7726	0.8138		1.00	0.0100	5.3	50.0
Acetonitrile	Lin1		0.0264		20.0	0.100	-23.7	50.0
Methyl acetate	Ave	0.2382	0.2217		10.0	0.0200	-6.9	50.0
Methylene Chloride	Lin1		0.3774		1.00	0.0100	11.6	50.0
tert-Butyl alcohol	Ave	0.0184	0.0129		50.0	0.200	-29.9	50.0
Acrylonitrile	Ave	0.1236	0.1167		20.0	0.0200	-5.5	50.0
Methyl tert-butyl ether	Ave	0.7459	0.6782		1.00	0.0100	-9.1	50.0
trans-1,2-Dichloroethene	Ave	0.3011	0.3153		1.00	0.0100	4.7	50.0
Hexane	Ave	0.0750	0.0776		1.00	0.0100	3.5	20.0
1,1-Dichloroethane	Ave	0.5220	0.5317	0.1000	1.00	0.0100	1.8	50.0
Vinyl acetate	Ave	0.0464	0.0363		2.00	0.0100	-21.8	50.0
2,2-Dichloropropane	Ave	0.2835	0.2604		1.00	0.0100	-8.1	50.0
cis-1,2-Dichloroethene	Ave	0.3056	0.3205		1.00	0.0100	4.9	50.0
2-Butanone	Ave	0.1316	0.1176		10.0	0.0200	-10.7	50.0
Bromochloromethane	Ave	0.1468	0.1637		1.00	0.0100	11.5	50.0
Tetrahydrofuran	Ave	0.0801	0.0675		5.00	0.0100	-15.7	50.0
Chloroform	Ave	0.5063	0.5055		1.00	0.0100	-0.2	20.0
1,1,1-Trichloroethane	Ave	0.4071	0.3951		1.00	0.0100	-3.0	50.0
Cyclohexane	Ave	0.5827	0.5551		1.00	0.0100	-4.7	50.0
1,1-Dichloropropene	Ave	0.3869	0.3851		1.00	0.0100	-0.5	50.0
Carbon tetrachloride	Ave	0.3771	0.3742		1.00	0.0100	-0.8	50.0
Benzene	Ave	1.171	1.209		1.00	0.0100	3.3	50.0
1,2-Dichloroethane	Ave	0.4201	0.4025		1.00	0.0100	-4.2	50.0
Trichloroethene	Ave	0.2979	0.3153		1.00	0.0100	5.9	50.0
Methylcyclohexane	Ave	0.4828	0.4664		1.00	0.0100	-3.4	50.0
1,2-Dichloropropane	Ave	0.2921	0.3003		1.00	0.0100	2.8	20.0
1,4-Dioxane	Ave	0.0025	0.0018		50.0	0.500	-30.5	50.0
Dibromomethane	Ave	0.1529	0.1597		1.00	0.0100	4.5	50.0
Bromodichloromethane	Ave	0.3429	0.3517		1.00	0.0100	2.6	50.0

FORM VII 8260B

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-27038-1

SDG No.:

Lab Sample ID: CCVIS 240-94651/2 Calibration Date: 07/23/2013 14:08

Instrument ID: A3UX17 Calib Start Date: 07/02/2013 09:46

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/02/2013 11:37

Lab File ID: UXR6544.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	0.1590	0.1383		10.0	0.0200	-13.0	50.0
cis-1,3-Dichloropropene	Ave	0.3874	0.3907		1.00	0.0100	0.8	50.0
4-Methyl-2-pentanone	Ave	0.2569	0.2271		10.0	0.0200	-11.6	50.0
Toluene	Ave	1.523	1.535		1.00	0.0100	0.8	20.0
trans-1,3-Dichloropropene	Lin1		0.4180		1.00	0.0100	-13.1	50.0
Ethyl methacrylate	Lin1		0.3788		1.00	0.0100	-15.6	50.0
1,1,2-Trichloroethane	Ave	0.2989	0.3072		1.00	0.0100	2.8	50.0
Tetrachloroethene	Ave	0.3422	0.3427		1.00	0.0100	0.1	50.0
1,3-Dichloropropane	Ave	0.5460	0.5162		1.00	0.0100	-5.5	50.0
2-Hexanone	Ave	0.2215	0.1847		10.0	0.0200	-16.6	50.0
Dibromochloromethane	Ave	0.3056	0.3101		1.00	0.0100	1.5	50.0
1,2-Dibromoethane	Ave	0.3019	0.2977		1.00	0.0100	-1.4	50.0
Chlorobenzene	Ave	1.041	0.9870	0.3000	1.00	0.0100	-5.2	50.0
1,1,1,2-Tetrachloroethane	Ave	0.3495	0.3398		1.00	0.0100	-2.8	50.0
Ethylbenzene	Ave	0.5348	0.4985		1.00	0.0100	-6.8	20.0
m-Xylene & p-Xylene	Ave	0.6704	0.6570		2.00	0.0200	-2.0	50.0
o-Xylene	Ave	0.6303	0.5747		1.00	0.0100	-8.8	50.0
Styrene	Ave	1.025	0.9858		1.00	0.0100	-3.8	50.0
Bromoform	Ave	0.1896	0.1914	0.1000	1.00	0.0100	0.9	50.0
Isopropylbenzene	Ave	1.585	1.351		1.00	0.0100	-14.7	50.0
1,1,2,2-Tetrachloroethane	Ave	0.6677	0.6192	0.3000	1.00	0.0100	-7.3	50.0
Bromobenzene	Ave	0.8260	0.8015		1.00	0.0100	-3.0	50.0
1,2,3-Trichloropropane	Ave	0.2416	0.2193		1.00	0.0100	-9.2	50.0
trans-1,4-Dichloro-2-butene	Ave	0.1878	0.1881		1.00	0.0100	0.1	50.0
n-Propylbenzene	Ave	0.8092	0.7777		1.00	0.0100	-3.9	50.0
2-Chlorotoluene	Ave	0.6963	0.6715		1.00	0.0100	-3.6	50.0
1,3,5-Trimethylbenzene	Ave	2.380	2.121		1.00	0.0100	-10.9	50.0
4-Chlorotoluene	Ave	0.7433	0.7373		1.00	0.0100	-0.8	50.0
tert-Butylbenzene	Ave	2.192	1.772		1.00	0.0100	-19.2	50.0
1,2,4-Trimethylbenzene	Ave	2.403	2.119		1.00	0.0100	-11.8	50.0
sec-Butylbenzene	Ave	2.839	2.341		1.00	0.0100	-17.5	50.0
1,3-Dichlorobenzene	Ave	1.540	1.364		1.00	0.0100	-11.4	50.0
p-Isopropyltoluene	Ave	2.514	2.062		1.00	0.0100	-18.0	50.0
1,4-Dichlorobenzene	Ave	1.604	1.395		1.00	0.0100	-13.0	50.0
n-Butylbenzene	Ave	2.069	1.478		1.00	0.0100	-28.6	50.0
1,2-Dichlorobenzene	Ave	1.463	1.207		1.00	0.0100	-17.5	50.0
1,2-Dibromo-3-Chloropropane	Ave	0.1078	0.0784		2.00	0.0100	-27.3	50.0
1,3,5-Trichlorobenzene	Ave	1.157	0.7317		1.00	0.0100	-36.7	50.0
1,2,4-Trichlorobenzene	Qua		0.5420		1.00	0.0100	-50.5*	50.0
Hexachlorobutadiene	Qua		0.2581		1.00	0.0100	-54.2*	50.0
Naphthalene	Ave	1.974	0.8001		1.00	0.0100	-59.5*	50.0

FORM VII 8260B

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton   Job No.: 240-27038-1

SDG No.:

Lab Sample ID: CCVIS 240-94651/2   Calibration Date: 07/23/2013 14:08

Instrument ID: A3UX17   Calib Start Date: 07/02/2013 09:46

GC Column: DB-624   ID: 0.18(mm)   Calib End Date: 07/02/2013 11:37

Lab File ID: UXR6544.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	Lin1		0.4392		1.00	0.0100	-56.0*	50.0
Dibromofluoromethane (Surr)	Ave	0.2564	0.2418		0.00840	0.00891	-5.7	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3470	0.2766		0.00710	0.00891	-20.3	50.0
Toluene-d8 (Surr)	Ave	1.349	1.196		0.00790	0.00891	-11.3	50.0
4-Bromofluorobenzene (Surr)	Ave	0.5052	0.4223		0.00745	0.00891	-16.4	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-27038-1

SDG No.:

Lab Sample ID: CCV 240-94651/3 Calibration Date: 07/23/2013 14:30

Instrument ID: A3UX17 Calib Start Date: 05/07/2013 14:13

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 05/07/2013 16:05

Lab File ID: UXR6545.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
Dichlorofluoromethane	Ave	0.4497	0.3423		2.00	0.0100	-23.9	50.0
Ethyl ether	Ave	0.2647	0.2477		2.00	0.0100	-6.4	50.0
3-Chloro-1-propene	Ave	0.1427	0.1287		2.00	0.0100	-9.8	50.0
Diisopropyl ether	Ave	0.2531	0.2385		10.0	0.0500	-5.8	50.0
2-Chloro-1,3-butadiene	Ave	0.4867	0.4686		2.00	0.0100	-3.7	50.0
Ethyl-t-butyl ether (ETBE)	Ave	0.9284	0.7461		5.00	0.0100	-19.6	50.0
Ethyl acetate	Ave	0.2704	0.2351		4.00	0.0200	-13.0	50.0
Propionitrile	Ave	0.0414	0.0396		4.00	0.0200	-4.4	50.0
Methacrylonitrile	Ave	0.1979	0.1574		2.00	0.0100	-20.5	50.0
Isobutyl alcohol	Ave	0.0118	0.0095		50.0	0.200	-19.5	50.0
Tert-amyl-methyl ether (TAME)	Ave	0.7736	0.5810		5.00	0.0100	-24.9	50.0
n-Heptane	Ave	0.0714	0.0726		1.00	0.0100	1.6	50.0
n-Butanol	Ave	0.0094	0.0074		50.0	0.200	-21.5	50.0
Methyl methacrylate	Ave	0.2516	0.1985		2.00	0.0100	-21.1	50.0
2-Nitropropane	Ave	0.0594	0.0462		2.00	0.0200	-22.3	50.0
Cyclohexanone	Ave	0.1188	0.0866		20.0	0.100	-27.1	50.0
1,2,3-Trimethylbenzene	Ave	2.525	2.268		0.00898	0.0100	-10.2	50.0

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-27038-1

SDG No.:

Lab File ID: UXR6548.D Lab Sample ID: MB 240-94651/6

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX17 Date Analyzed: 07/23/2013 15:37

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 240-94651/4	UXR6546.D	07/23/2013 14:53
MSA-SW42A-071813	240-27038-21	UXR6549.D	07/23/2013 16:29
MSA-SW42B-071813	240-27038-22	UXR6550.D	07/23/2013 16:52
MSA-SW42C-071813	240-27038-23	UXR6551.D	07/23/2013 17:14
MSA-SW42D-071813	240-27038-24	UXR6552.D	07/23/2013 17:36
MSA-SW43A-071813	240-27038-25	UXR6553.D	07/23/2013 17:59
MSA-SW43B-071813	240-27038-26	UXR6554.D	07/23/2013 18:21
MSA-SW43C-071813	240-27038-27	UXR6555.D	07/23/2013 18:43
MSA-SW43D-071813	240-27038-28	UXR6556.D	07/23/2013 19:06
MSA-SW44A-071813	240-27038-29	UXR6557.D	07/23/2013 19:28
MSA-SW44B-071813	240-27038-30	UXR6558.D	07/23/2013 19:50
MSA-SW44C-071813	240-27038-31	UXR6559.D	07/23/2013 20:13
MSA-SW44D-071813	240-27038-32	UXR6560.D	07/23/2013 20:35
MSA-SW45A-071813	240-27038-33	UXR6561.D	07/23/2013 20:57
MSA-SW45B-071813	240-27038-34	UXR6562.D	07/23/2013 21:20
MSA-SW45C-071813	240-27038-35	UXR6563.D	07/23/2013 21:42
MSA-SW45D-071813	240-27038-36	UXR6564.D	07/23/2013 22:04
EL-SW01A-071813	240-27038-37	UXR6565.D	07/23/2013 22:26
EL-SW01B-071813	240-27038-38	UXR6566.D	07/23/2013 22:49
EL-SW01C-071813	240-27038-39	UXR6567.D	07/23/2013 23:11
EL-SW01D-071813	240-27038-40	UXR6568.D	07/23/2013 23:33
MSA-SW42A-071813 MS	240-27038-21 MS	UXR6569.D	07/23/2013 23:56
MSA-SW42A-071813 MSD	240-27038-21 MSD	UXR6570.D	07/24/2013 00:18

FORM IV 8260B

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton　　Job No.: 240-27038-1

SDG No.:

Client Sample ID:　　Lab Sample ID: MB 240-94651/6

Matrix: Water　　Lab File ID: UXR6548.D

Analysis Method: 8260B　　Date Collected:

Sample wt/vol: 5(mL)　　Date Analyzed: 07/23/2013 15:37

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.: 94651　　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	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
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
78-93-3	2-Butanone	5.0	U	5.0	0.57
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	5.0	U	5.0	0.41
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
67-64-1	Acetone	5.0	U	5.0	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
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-27038-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-94651/6

Matrix: Water Lab File ID: UXR6548.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 07/23/2013 15:37

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.: 94651 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
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
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
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	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.17
75-09-2	Methylene Chloride	1.38		1.0	0.33
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
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
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
75-65-0	tert-Butyl alcohol	20	U	20	3.9
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	0.50	U	0.50	0.22

FORM I 8260B

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton   Job No.: 240-27038-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-94651/6

Matrix: Water   Lab File ID: UXR6548.D

Analysis Method: 8260B   Date Collected:

Sample wt/vol: 5(mL)   Date Analyzed: 07/23/2013 15:37

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.: 94651   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)	97		63-129
460-00-4	4-Bromofluorobenzene (Surr)	80		66-117
1868-53-7	Dibromofluoromethane (Surr)	108		75-121
2037-26-5	Toluene-d8 (Surr)	83		74-115

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-27038-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXR6546.D

Lab ID: LCS 240-94651/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	10.0	9.74	97	72-116	
1,1,1-Trichloroethane	10.0	9.28	93	74-118	
1,1,2,2-Tetrachloroethane	10.0	8.56	86	68-118	
1,1,2-Trichloro-1,2,2-trichfluoroethane	10.0	11.2	112	74-151	
1,1-Dichloroethane	10.0	9.86	99	82-115	
1,1-Dichloroethene	10.0	10.1	101	78-131	
1,1-Dichloropropene	10.0	9.49	95	83-114	
1,2,3-Trichlorobenzene	10.0	4.91	49	54-126	*
1,2,3-Trichloropropane	10.0	8.28	83	73-129	
1,2,3-Trimethylbenzene	10.0	8.56	86	70-130	
1,2,4-Trichlorobenzene	10.0	5.67	57	48-135	
1,2,4-Trimethylbenzene	10.0	9.03	90	76-120	
1,2-Dibromo-3-Chloropropane	10.0	7.34	73	42-136	
1,2-Dibromoethane	10.0	9.55	95	79-113	
1,2-Dichlorobenzene	10.0	8.60	86	81-110	
1,2-Dichloroethane	10.0	9.43	94	71-127	
1,2-Dichloropropane	10.0	9.70	97	81-115	
1,3-Dichlorobenzene	10.0	8.93	89	80-110	
1,3-Dichloropropane	10.0	8.88	89	79-116	
1,4-Dichlorobenzene	10.0	8.57	86	82-110	
2,2-Dichloropropane	10.0	8.85	88	50-129	
2-Butanone	20.0	18.0	90	60-126	
2-Chloroethyl vinyl ether	10.0	7.97 J	80	52-131	
2-Chlorotoluene	10.0	9.11	91	76-116	
2-Hexanone	20.0	16.8	84	55-133	
4-Chlorotoluene	10.0	9.14	91	77-115	
4-Methyl-2-pentanone	20.0	18.1	90	63-128	
Acetone	20.0	18.0	90	43-136	
Benzene	10.0	10.3	103	83-112	
Bromobenzene	10.0	9.03	90	76-115	
Bromochloromethane	10.0	10.5	105	77-120	
Bromodichloromethane	10.0	9.88	99	72-121	
Bromoform	10.0	9.29	93	40-131	
Bromomethane	10.0	8.96	90	11-185	
Carbon disulfide	10.0	9.75	97	62-142	
Carbon tetrachloride	10.0	9.27	93	66-128	
Chlorobenzene	10.0	9.34	93	85-110	
Chloroethane	10.0	7.60	76	25-153	
Chloroform	10.0	9.60	96	79-117	
Chloromethane	10.0	8.15	82	44-126	
cis-1,2-Dichloroethene	10.0	10.2	102	80-113	

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.: 240-27038-1

SDG No.:

Matrix: Water   Level: Low   Lab File ID: UXR6546.D

Lab ID: LCS 240-94651/4   Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
cis-1,3-Dichloropropene	10.0	9.49	95	61-115	
Dibromochloromethane	10.0	9.11	91	64-119	
Dibromomethane	10.0	10.4	104	81-120	
Dichlorodifluoromethane	10.0	9.05	91	19-129	
Diisopropyl ether	10.0	9.66	97	77-118	
Ethylbenzene	10.0	9.52	95	83-112	
Hexachlorobutadiene	10.0	5.94	59	36-134	
Isopropylbenzene	10.0	9.37	94	75-114	
Methyl tert-butyl ether	10.0	9.27	93	52-144	
Methylene Chloride	10.0	11.6	116	66-131	
m-Xylene & p-Xylene	20.0	19.4	97	83-113	
Naphthalene	10.0	4.76	48	32-141	
n-Butylbenzene	10.0	8.47	85	66-125	
n-Propylbenzene	10.0	9.32	93	74-121	
o-Xylene	10.0	9.47	95	83-113	
p-Isopropyltoluene	10.0	9.07	91	74-120	
sec-Butylbenzene	10.0	8.70	87	70-117	
Styrene	10.0	9.97	100	79-114	
tert-Butyl alcohol	200	209	104	70-130	
tert-Butylbenzene	10.0	8.40	84	71-115	
Tetrachloroethene	10.0	9.18	92	79-114	
Toluene	10.0	9.40	94	84-111	
trans-1,2-Dichloroethene	10.0	9.83	98	83-117	
trans-1,3-Dichloropropene	10.0	7.73	77	58-117	
Trichloroethene	10.0	10.4	104	76-117	
Trichlorofluoromethane	10.0	8.35	83	49-157	
Vinyl acetate	10.0	8.91	89	46-161	
Vinyl chloride	10.0	9.07	91	53-127	
Xylenes, Total	30.0	28.9	96	83-112	

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.: 240-27038-1

SDG No.:

Matrix: Water　　Level: Low　　Lab File ID: UXR6569.D

Lab ID: 240-27038-21 MS　　Client ID: MSA-SW42A-071813 MS

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	9.54	95	64-118	
1,1,1-Trichloroethane	10.0	1.0 U	9.75	97	68-121	
1,1,2,2-Tetrachloroethane	10.0	1.0 U	7.97	80	63-122	
1,1,2-Trichloro-1,2,2-trichfluoroethane	10.0	1.0 U	10.8	108	70-152	
1,1-Dichloroethane	10.0	1.0 U	9.82	98	79-116	
1,1-Dichloroethene	10.0	1.0 U	10.0	100	74-135	
1,1-Dichloropropene	10.0	1.0 U	9.65	97	80-114	
1,2,3-Trichlorobenzene	10.0	1.0 U	4.30	43	45-129	F
1,2,3-Trichloropropane	10.0	1.0 U	7.78	78	67-132	
1,2,3-Trimethylbenzene	10.0	5.0 U	8.17	82	70-130	
1,2,4-Trichlorobenzene	10.0	1.0 U	5.12	51	38-138	
1,2,4-Trimethylbenzene	10.0	1.0 U	8.60	86	67-124	
1,2-Dibromo-3-Chloropropane	10.0	5.0 U	6.87	69	32-139	
1,2-Dibromoethane	10.0	1.0 U	9.19	92	74-113	
1,2-Dichlorobenzene	10.0	1.0 U	8.24	82	75-111	
1,2-Dichloroethane	10.0	1.0 U	9.59	96	68-129	
1,2-Dichloropropane	10.0	1.0 U	9.75	97	78-115	
1,3-Dichlorobenzene	10.0	1.0 U	8.44	84	73-110	
1,3-Dichloropropane	10.0	1.0 U	8.69	87	74-118	
1,4-Dichlorobenzene	10.0	1.0 U	8.30	83	75-110	
2,2-Dichloropropane	10.0	1.0 U	9.08	91	38-127	
2-Butanone	20.0	5.0 U	17.2	86	54-129	
2-Chloroethyl vinyl ether	10.0	10 U	10 U	0	10-150	F
2-Chlorotoluene	10.0	1.0 U	8.52	85	69-117	
2-Hexanone	20.0	5.0 U	15.2	76	47-139	
4-Chlorotoluene	10.0	1.0 U	8.96	90	71-116	
4-Methyl-2-pentanone	20.0	5.0 U	16.7	84	56-131	
Acetone	20.0	5.0 U	17.2	86	33-145	
Benzene	10.0	1.0 U	10.1	101	72-121	
Bromobenzene	10.0	1.0 U	8.48	85	71-116	
Bromochloromethane	10.0	1.0 U	10.6	106	73-121	
Bromodichloromethane	10.0	1.0 U	10.1	101	67-120	
Bromoform	10.0	1.0 U	9.15	92	32-128	
Bromomethane	10.0	1.0 U	11.3	113	10-186	
Carbon disulfide	10.0	1.0 U	10.5	105	57-147	
Carbon tetrachloride	10.0	1.0 U	10.1	101	59-129	
Chlorobenzene	10.0	1.0 U	9.13	91	80-110	
Chloroethane	10.0	1.0 U	11.4	114	21-165	
Chloroform	10.0	1.0 U	9.69	97	76-118	
Chloromethane	10.0	1.0 U	8.51	85	33-132	
cis-1,2-Dichloroethene	10.0	0.46 J	10.4	100	70-120	

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.: 240-27038-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXR6569.D

Lab ID: 240-27038-21 MS Client ID: MSA-SW42A-071813 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
cis-1,3-Dichloropropene	10.0	1.0 U	8.42	84	51-110	
Dibromochloromethane	10.0	1.0 U	9.17	92	56-118	
Dibromomethane	10.0	1.0 U	10.5	105	77-121	
Dichlorodifluoromethane	10.0	1.0 U	8.38	84	17-128	
Diisopropyl ether	10.0	5.0 U	9.10	91	73-118	
Ethylbenzene	10.0	1.0 U	9.30	93	75-116	
Hexachlorobutadiene	10.0	1.0 U	5.48	55	27-132	
Isopropylbenzene	10.0	1.0 U	8.89	89	68-116	
Methyl tert-butyl ether	10.0	1.0 U	8.86	89	46-144	
Methylene Chloride	10.0	1.0 U	8.55	86	63-128	
m-Xylene & p-Xylene	20.0	2.0 U	19.2	96	75-117	
Naphthalene	10.0	1.0 U	3.94	39	15-158	
n-Butylbenzene	10.0	1.0 U	7.62	76	56-127	
n-Propylbenzene	10.0	1.0 U	8.68	87	64-124	
o-Xylene	10.0	1.0 U	9.32	93	76-116	
p-Isopropyltoluene	10.0	1.0 U	8.55	85	64-122	
sec-Butylbenzene	10.0	1.0 U	7.97	80	60-119	
Styrene	10.0	1.0 U	9.78	98	71-117	
tert-Butyl alcohol	200	20 U	186	93	70-130	
tert-Butylbenzene	10.0	1.0 U	7.78	78	61-119	
Tetrachloroethene	10.0	1.0 U	9.26	93	70-117	
Toluene	10.0	1.0 U	9.23	92	78-114	
trans-1,2-Dichloroethene	10.0	1.0 U	10.0	100	80-119	
trans-1,3-Dichloropropene	10.0	1.0 U	7.31	73	46-116	
Trichloroethene	10.0	0.68 J	11.0	103	66-120	
Trichlorofluoromethane	10.0	1.0 U	9.15	92	46-157	
Vinyl acetate	10.0	2.0 U	8.12	81	43-157	
Vinyl chloride	10.0	0.36 J	9.42	91	49-130	
Xylenes, Total	30.0	2.0 U	28.5	95	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.: 240-27038-1

SDG No.:

Matrix: Water   Level: Low   Lab File ID: UXR6570.D

Lab ID: 240-27038-21 MSD   Client ID: MSA-SW42A-071813 MSD

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	9.30	93	3	30	64-118	
1,1,1-Trichloroethane	10.0	9.32	93	5	30	68-121	
1,1,2,2-Tetrachloroethane	10.0	7.57	76	5	30	63-122	
1,1,2-Trichloro-1,2,2-trichfluoroethane	10.0	10.4	104	4	30	70-152	
1,1-Dichloroethane	10.0	9.44	94	4	30	79-116	
1,1-Dichloroethene	10.0	9.85	99	2	30	74-135	
1,1-Dichloropropene	10.0	9.54	95	1	30	80-114	
1,2,3-Trichlorobenzene	10.0	5.03	50	16	30	45-129	
1,2,3-Trichloropropane	10.0	7.53	75	3	30	67-132	
1,2,3-Trimethylbenzene	10.0	8.11	81	1	30	70-130	
1,2,4-Trichlorobenzene	10.0	5.44	54	6	30	38-138	
1,2,4-Trimethylbenzene	10.0	8.42	84	2	30	67-124	
1,2-Dibromo-3-Chloropropane	10.0	7.05	71	3	30	32-139	
1,2-Dibromoethane	10.0	9.07	91	1	30	74-113	
1,2-Dichlorobenzene	10.0	8.17	82	1	30	75-111	
1,2-Dichloroethane	10.0	9.50	95	1	30	68-129	
1,2-Dichloropropane	10.0	9.54	95	2	30	78-115	
1,3-Dichlorobenzene	10.0	8.31	83	1	30	73-110	
1,3-Dichloropropane	10.0	8.57	86	1	30	74-118	
1,4-Dichlorobenzene	10.0	8.15	82	2	30	75-110	
2,2-Dichloropropane	10.0	8.91	89	2	30	38-127	
2-Butanone	20.0	16.5	83	4	30	54-129	
2-Chloroethyl vinyl ether	10.0	10 U	0	NC	30	10-150	F
2-Chlorotoluene	10.0	8.48	85	0	30	69-117	
2-Hexanone	20.0	14.8	74	2	30	47-139	
4-Chlorotoluene	10.0	8.68	87	3	30	71-116	
4-Methyl-2-pentanone	20.0	16.4	82	2	30	56-131	
Acetone	20.0	17.0	85	1	30	33-145	
Benzene	10.0	9.86	99	2	30	72-121	
Bromobenzene	10.0	8.39	84	1	30	71-116	
Bromochloromethane	10.0	10.3	103	3	30	73-121	
Bromodichloromethane	10.0	9.87	99	2	30	67-120	
Bromoform	10.0	8.82	88	4	30	32-128	
Bromomethane	10.0	11.1	111	1	30	10-186	
Carbon disulfide	10.0	10.1	101	3	30	57-147	
Carbon tetrachloride	10.0	9.66	97	5	30	59-129	
Chlorobenzene	10.0	9.09	91	0	30	80-110	
Chloroethane	10.0	10.8	108	6	30	21-165	
Chloroform	10.0	9.50	95	2	30	76-118	
Chloromethane	10.0	8.19	82	4	30	33-132	
cis-1,2-Dichloroethene	10.0	10.3	98	1	30	70-120	

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.: 240-27038-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXR6570.D

Lab ID: 240-27038-21 MSD Client ID: MSA-SW42A-071813 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
cis-1,3-Dichloropropene	10.0	8.52	85	1	30	51-110	
Dibromochloromethane	10.0	8.84	88	4	30	56-118	
Dibromomethane	10.0	10.0	100	5	30	77-121	
Dichlorodifluoromethane	10.0	8.22	82	2	30	17-128	
Diisopropyl ether	10.0	9.10	91	0	30	73-118	
Ethylbenzene	10.0	9.01	90	3	30	75-116	
Hexachlorobutadiene	10.0	5.66	57	3	30	27-132	
Isopropylbenzene	10.0	8.92	89	0	30	68-116	
Methyl tert-butyl ether	10.0	8.59	86	3	30	46-144	
Methylene Chloride	10.0	8.25	83	4	30	63-128	
m-Xylene & p-Xylene	20.0	19.3	96	0	30	75-117	
Naphthalene	10.0	4.71	47	18	30	15-158	
n-Butylbenzene	10.0	7.70	77	1	30	56-127	
n-Propylbenzene	10.0	8.53	85	2	30	64-124	
o-Xylene	10.0	9.16	92	2	30	76-116	
p-Isopropyltoluene	10.0	8.50	85	1	30	64-122	
sec-Butylbenzene	10.0	7.91	79	1	30	60-119	
Styrene	10.0	9.70	97	1	30	71-117	
tert-Butyl alcohol	200	181	91	2	30	70-130	
tert-Butylbenzene	10.0	7.77	78	0	30	61-119	
Tetrachloroethene	10.0	9.33	93	1	30	70-117	
Toluene	10.0	9.12	91	1	30	78-114	
trans-1,2-Dichloroethene	10.0	9.66	97	4	30	80-119	
trans-1,3-Dichloropropene	10.0	7.17	72	2	30	46-116	
Trichloroethene	10.0	10.7	100	3	30	66-120	
Trichlorofluoromethane	10.0	9.06	91	1	30	46-157	
Vinyl acetate	10.0	7.91	79	3	30	43-157	
Vinyl chloride	10.0	9.10	87	4	30	49-130	
Xylenes, Total	30.0	28.5	95	0	30	76-116	

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.: 240-27038-1

SDG No.:

Lab File ID: BFB2395.D   BFB Injection Date: 07/17/2013

Instrument ID: A3UX9   BFB Injection Time: 21:03

Analysis Batch No.: 94035

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	33.3
75	30.0 - 60.0 % of mass 95	52.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.2
173	Less than 2.0 % of mass 174	0.6 (0.8)1
174	50.0 - 120.00 % of mass 95	75.5
175	5.0 - 9.0 % of mass 174	5.2 (6.9)1
176	95.0 - 101.0 % of mass 174	73.1 (96.8)1
177	5.0 - 9.0 % of mass 176	4.3 (5.8)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 240-94035/3	UX938092.D	07/17/2013	21:52
	STD8260 240-94035/4	UX938093.D	07/17/2013	22:18
	STD8260 240-94035/5	UX938094.D	07/17/2013	22:45
	STD8260 240-94035/6	UX938095.D	07/17/2013	23:11
	STD8260 240-94035/7	UX938096.D	07/17/2013	23:37
	STD8260 240-94035/8	UX938097.D	07/18/2013	00:03
	STD 240-94035/9	UX938098.D	07/18/2013	00:29
	STD 240-94035/10	UX938099.D	07/18/2013	00:55
	STD 240-94035/11	UX938100.D	07/18/2013	01:21
	STD 240-94035/12	UX938101.D	07/18/2013	01:47
	STD 240-94035/13	UX938102.D	07/18/2013	02:13
	STD 240-94035/14	UX938103.D	07/18/2013	02:39
	ICV 240-94035/16	UX938105.D	07/18/2013	03:31

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton　Job No.: 240-27038-1　Analy Batch No.: 94035

SDG No.:

Instrument ID: A3UX9　GC Column: DB-624　ID: 0.18 (mm)　Heated Purge: (Y/N) N

Calibration Start Date: 07/17/2013 21:52　Calibration End Date: 07/18/2013 00:03　Calibration ID: 16290

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-94035/3	UX938092.D
Level 2	STD8260 240-94035/4	UX938093.D
Level 3	STD8260 240-94035/5	UX938094.D
Level 4	STD8260 240-94035/6	UX938095.D
Level 5	STD8260 240-94035/7	UX938096.D
Level 6	STD8260 240-94035/8	UX938097.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								
Dichlorodifluoromethane	 0.3212	0.2318	0.2944	0.2817	0.3159	Ave		0.2890				12.0		15.0			
Chloromethane	0.5962 0.5188	0.5388	0.5523	0.5326	0.5476	Ave		0.5477			0.1000	4.8		15.0			
Vinyl chloride	0.5907 0.5339	0.5759	0.5347	0.5347	0.5653	Ave		0.5559				4.5		15.0			
Bromomethane	0.1484 0.1513	0.1341	0.1653	0.1671	0.1670	Ave		0.1555				8.6		15.0			
Chloroethane	0.3021 0.2994	0.2589	0.3038	0.2954	0.3106	Ave		0.2950				6.2		15.0			
Dichlorofluoromethane	0.5510 0.5300	0.5047	0.5463	0.5362	0.5734	Ave		0.5402				4.2		15.0			
Trichlorofluoromethane	0.1329 0.3677	0.2253	0.3370	0.3234	0.3745	Lin1	-0.135	0.3653							0.9980		0.9900
Ethyl ether	0.5532 0.4128	0.5159	0.4050	0.4151	0.4046	Ave		0.4511				15.0		15.0			
Acrolein	 0.0459	0.0532	0.0422	0.0440	0.0418	Ave		0.0454				10.0		15.0			
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.1527 0.2103	0.2151	0.2215	0.2086	0.2201	Ave		0.2047				13.0		15.0			
1,1-Dichloroethene	0.8216 0.8372	0.7851	0.8547	0.7904	0.8104	Ave		0.8166				3.3		15.0			
Acetone	 0.1171	0.2726	0.1185	0.1150	0.1153	Lin1	0.2958	0.1126							0.9990		0.9900
Iodomethane	0.4296 0.3667	0.4190	0.3984	0.3913	0.3881	Ave		0.3989				5.7		15.0			
Carbon disulfide	0.7687 0.9130	0.7621	0.9101	0.8990	0.9290	Ave		0.8637				8.9		15.0			
Methyl acetate	0.3342 0.2864	0.3083	0.2818	0.2945	0.2908	Ave		0.2993				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.: 240-27038-1   Analy Batch No.: 94035

SDG No.:

Instrument ID: A3UX9   GC Column: DB-624   ID: 0.18(mm)   Heated Purge: (Y/N) N

Calibration Start Date: 07/17/2013 21:52   Calibration End Date: 07/18/2013 00:03   Calibration ID: 16290

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								
3-Chloro-1-propene		0.2523	0.1882	0.2013	0.2821	0.2810	Linl	-0.093	0.2631							0.9930		0.9900
Methylene Chloride		0.6254	1.4365	0.7257	0.6831	0.6490	Linl	0.8446	0.6234							1.0000		0.9900
tert-Butyl alcohol	1.1681	1.3940	1.4644	1.3919	1.4262	1.4481	Ave		1.3821				7.9		15.0			
Acrylonitrile	0.1959	0.2056	0.2210	0.1986	0.1983	0.2042	Ave		0.2039				4.5		15.0			
Methyl tert-butyl ether	0.7063	0.7836	0.7918	0.7518	0.7756	0.7902	Ave		0.7666				4.3		15.0			
trans-1,2-Dichloroethene	0.4788	0.6412	0.6678	0.6479	0.6444	0.6244	Ave		0.6174				11.0		15.0			
Hexane	0.4981	0.4278	0.4459	0.4423	0.4003	0.4124	Ave		0.4378				7.8		15.0			
1,1-Dichloroethane	0.6864	0.5423	0.6073	0.7122	0.7002	0.6883	Ave		0.6561			0.1000	10.0		15.0			
Vinyl acetate		0.0651	0.0867	0.0687	0.0617	0.0665	Ave		0.0697				14.0		15.0			
cis-1,2-Dichloroethene	0.5600	0.6112	0.5940	0.6239	0.5978	0.5880	Ave		0.5958				3.7		15.0			
2-Butanone	0.2071	0.1684	0.1865	0.1799	0.1790	0.1738	Ave		0.1824				7.4		15.0			
2,2-Dichloropropane	0.2084	0.1579	0.1874	0.1679	0.1714	0.1653	Ave		0.1764				10.0		15.0			
Bromochloromethane	0.3167	0.3299	0.3766	0.3414	0.3369	0.3372	Ave		0.3398				5.9		15.0			
Tetrahydrofuran		0.1111	0.1305	0.1142	0.1133	0.1128	Ave		0.1164				6.9		15.0			
Chloroform	0.3857	0.4409	0.4242	0.4419	0.4473	0.4370	Ave		0.4295				5.3		15.0			
1,1,1-Trichloroethane	0.2199	0.2700	0.2266	0.2809	0.2814	0.2906	Ave		0.2616				12.0		15.0			
Cyclohexane	0.6290	0.6375	0.5671	0.6482	0.6067	0.6483	Ave		0.6228				5.0		15.0			
1,1-Dichloropropene	0.3380	0.3134	0.2825	0.3137	0.3117	0.3074	Ave		0.3111				5.7		15.0			
Carbon tetrachloride	0.2193	0.2442	0.2027	0.2182	0.2373	0.2537	Ave		0.2292				8.3		15.0			
Isobutyl alcohol	0.3458	0.3295	0.3831	0.3334	0.3440	0.3480	Ave		0.3473				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.: 240-27038-1   Analy Batch No.: 94035

SDG No.:

Instrument ID: A3UX9   GC Column: DB-624   ID: 0.18(mm)   Heated Purge: (Y/N) N

Calibration Start Date: 07/17/2013 21:52   Calibration End Date: 07/18/2013 00:03   Calibration ID: 16290

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								
Benzene	1.0312 1.0512	1.0280	1.0418	1.0296	1.0641	Ave		1.0410				1.4		15.0			
1,2-Dichloroethane	0.4961 0.5473	0.5915	0.5241	0.5482	0.5508	Ave		0.5430				5.8		15.0			
n-Heptane	0.2512	3.4943	0.5255	0.3536	0.2915	Lin1	3.2690	0.2068							0.9990		0.9900
Trichloroethene	0.2462 0.2400	0.2188	0.2346	0.2306	0.2429	Ave		0.2355				4.2		15.0			
Methylcyclohexane	0.3957 0.3986	0.3241	0.3890	0.3619	0.3893	Ave		0.3764				7.6		15.0			
1,2-Dichloropropane	0.4810 0.3829	0.4193	0.3675	0.4134	0.3952	Ave		0.4099				9.7		15.0			
Dibromomethane	0.1393 0.1696	0.2010	0.1640	0.1633	0.1644	Ave		0.1669				12.0		15.0			
1,4-Dioxane	0.8959 1.2315	1.1265	1.1719	1.0658	1.2559	Ave		1.1246				12.0		15.0			
Bromodichloromethane	0.2986 0.3468	0.3966	0.3449	0.3497	0.3529	Ave		0.3483				8.9		15.0			
2-Chloroethyl vinyl ether	0.2537 0.2918	0.2868	0.2777	0.2802	0.2916	Ave		0.2803				5.1		15.0			
cis-1,3-Dichloropropene	0.4309 0.4232	0.3765	0.3892	0.4155	0.4298	Ave		0.4108				5.5		15.0			
4-Methyl-2-pentanone	0.3853 0.3783	0.3347	0.3689	0.3790	0.3888	Ave		0.3725				5.3		15.0			
Toluene	1.3385 1.5314	1.4691	1.4902	1.4817	1.4758	Ave		1.4645				4.5		15.0			
trans-1,3-Dichloropropene	0.5421 0.5405	0.4573	0.4867	0.5036	0.5241	Ave		0.5090				6.5		15.0			
Ethyl methacrylate	0.4792 0.5477	0.4563	0.4904	0.5057	0.5260	Ave		0.5009				6.6		15.0			
1,1,2-Trichloroethane	0.3101 0.3249	0.2849	0.3344	0.3167	0.3095	Ave		0.3134				5.4		15.0			
Tetrachloroethene	0.2289 0.3136	0.2667	0.3081	0.2950	0.3157	Ave		0.2880				12.0		15.0			
1,3-Dichloropropane	0.5198 0.6055	0.5714	0.5758	0.6016	0.6097	Ave		0.5806				5.8		15.0			
2-Hexanone	0.3686 0.3737	0.4094	0.3690	0.3738	0.3714	Ave		0.3776				4.2		15.0			
Dibromochloromethane	0.1955 0.3418	0.2816	0.3032	0.3233	0.3350	Lin1	-0.076	0.3371							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.: 240-27038-1   Analy Batch No.: 94035

SDG No.:

Instrument ID: A3UX9   GC Column: DB-624   ID: 0.18(mm)   Heated Purge: (Y/N) N

Calibration Start Date: 07/17/2013 21:52   Calibration End Date: 07/18/2013 00:03   Calibration ID: 16290

ANALYTE	RRF LVL 1 / LVL 6	RRF LVL 2	RRF LVL 3	RRF LVL 4	RRF LVL 5	CURVE TYPE	COEFFICIENT B	COEFFICIENT M1	COEFFICIENT M2	#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
1,2-Dibromoethane	0.3637 0.3298	0.3543	0.3206	0.3382	0.3161	Ave		0.3371				5.6		15.0			
Chlorobenzene	1.1488 0.9766	0.8993	0.9667	0.9311	0.9226	Ave		0.9742			0.3000	9.3		15.0			
1,1,1,2-Tetrachloroethane	0.2659 0.3367	0.2808	0.3138	0.3119	0.3237	Ave		0.3055				8.8		15.0			
Ethylbenzene	0.3864 0.5083	0.5163	0.5024	0.4745	0.4921	Ave		0.4800				10.0		15.0			
m-Xylene & p-Xylene	0.5598 0.6285	0.4965	0.6177	0.5874	0.6037	Ave		0.5823				8.3		15.0			
o-Xylene	0.5008 0.6211	0.5099	0.5886	0.5769	0.6017	Ave		0.5665				8.8		15.0			
Styrene	0.8498 1.1637	0.9899	1.0342	1.0846	1.1129	Ave		1.0392				11.0		15.0			
Bromoform	 0.2579	0.1495	0.2084	0.2227	0.2439	Lin1	-0.142	0.2502			0.1000				0.9970		0.9900
Isopropylbenzene	1.0176 1.4701	1.2184	1.3523	1.3567	1.3951	Ave		1.3017				12.0		15.0			
1,1,2,2-Tetrachloroethane	1.0318 0.9543	0.8922	0.9672	0.9002	0.9570	Ave		0.9505			0.3000	5.3		15.0			
Bromobenzene	0.8910 0.8224	0.8262	0.8669	0.8052	0.8227	Ave		0.8391				3.9		15.0			
1,2,3-Trichloropropane	0.2323 0.3123	0.3133	0.3562	0.3246	0.3285	Ave		0.3112				13.0		15.0			
trans-1,4-Dichloro-2-butene	 0.5177	0.3284	0.4521	0.4890	0.4802	Lin1	-0.220	0.5057							0.9990		0.9900
n-Propylbenzene	0.7089 0.7153	0.7263	0.7353	0.6607	0.7219	Ave		0.7114				3.7		15.0			
2-Chlorotoluene	0.6795 0.6687	0.7276	0.6888	0.6127	0.6349	Ave		0.6687				6.1		15.0			
1,3,5-Trimethylbenzene	1.6669 2.3180	2.0447	2.3506	2.1204	2.2540	Ave		2.1258				12.0		15.0			
4-Chlorotoluene	0.6881 0.7159	0.6939	0.7560	0.6636	0.7212	Ave		0.7064				4.5		15.0			
tert-Butylbenzene	1.6252 1.8521	1.5514	1.8688	1.7217	1.8430	Ave		1.7437				7.6		15.0			
1,2,4-Trimethylbenzene	2.3029 2.4703	2.2353	2.3928	2.2661	2.4581	Ave		2.3543				4.3		15.0			
sec-Butylbenzene	2.1898 2.7127	2.0328	2.6606	2.5598	2.6385	Ave		2.4657				11.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI 8260B

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-27038-1 Analy Batch No.: 94035

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/17/2013 21:52 Calibration End Date: 07/18/2013 00:03 Calibration ID: 16290

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								
1,3-Dichlorobenzene	1.7793 1.4649	1.5348	1.4746	1.3915	1.4695	Ave		1.5191				8.9		15.0			
p-Isopropyltoluene	2.0286 2.3282	2.1452	2.2910	2.1510	2.2767	Ave		2.2035				5.2		15.0			
1,4-Dichlorobenzene	1.9170 1.5348	1.4330	1.6088	1.4897	1.5295	Ave		1.5855				11.0		15.0			
n-Butylbenzene	1.7378 2.1305	1.8974	2.0472	1.8923	2.0374	Ave		1.9571				7.2		15.0			
1,2-Dichlorobenzene	1.4428 1.4884	1.5195	1.4993	1.4591	1.4905	Ave		1.4833				1.9		15.0			
1,2-Dibromo-3-Chloropropane	0.2184	0.1725	0.1889	0.2079	0.2175	Ave		0.2010				9.9		15.0			
1,2,4-Trichlorobenzene	0.8840 0.8562	0.7636	0.8367	0.7840	0.8389	Ave		0.8272				5.5		15.0			
Hexachlorobutadiene	0.5008 0.3460	0.3526	0.3757	0.3218	0.3238	Linl	0.0623	0.3370							0.9980		0.9900
Naphthalene	2.3439 2.6343	2.3276	2.4921	2.5083	2.6435	Ave		2.4916				5.5		15.0			
1,2,3-Trichlorobenzene	1.0327 0.8144	0.8092	0.8235	0.7714	0.8180	Ave		0.8449				11.0		15.0			
Dibromofluoromethane (Surr)	0.2153	0.2232	0.2050	0.2105	0.2088	Ave		0.2126				3.3		15.0			
1,2-Dichloroethane-d4 (Surr)	0.3681	0.4168	0.3973	0.3826	0.3806	Ave		0.3891				4.8		15.0			
Toluene-d8 (Surr)	1.2223	1.1517	1.1998	1.2650	1.2189	Ave		1.2115				3.4		15.0			
4-Bromofluorobenzene (Surr)	0.4943	0.4590	0.4998	0.4965	0.4737	Ave		0.4847				3.6		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.: 240-27038-1   Analy Batch No.: 94035

SDG No.:

Instrument ID: A3UX9   GC Column: DB-624   ID: 0.18(mm)   Heated Purge: (Y/N) N

Calibration Start Date: 07/18/2013 00:29   Calibration End Date: 07/18/2013 02:39   Calibration ID: 16293

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-94035/9	UX938098.D
Level 2	STD 240-94035/10	UX938099.D
Level 3	STD 240-94035/11	UX938100.D
Level 4	STD 240-94035/12	UX938101.D
Level 5	STD 240-94035/13	UX938102.D
Level 6	STD 240-94035/14	UX938103.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								
Acetonitrile	0.0493	0.0292	0.0461	0.0467	0.0490	Lin1	-0.218	0.0492							1.0000		0.9900
Diisopropyl ether	0.2754 0.2264	0.2682	0.2276	0.2277	0.2366	Ave		0.2436				9.1		15.0			
2-Chloro-1,3-butadiene	0.5990 0.6459	0.5996	0.6792	0.6655	0.6801	Ave		0.6449				5.8		15.0			
Ethyl-t-butyl ether (ETBE)	1.4585 1.4679	1.5635	1.4461	1.4701	1.4998	Ave		1.4843				2.9		15.0			
Ethyl acetate	0.4808 0.3278	0.3738	0.3456	0.3438	0.3441	Ave		0.3693				15.0		15.0			
Propionitrile	0.0696 0.0712	0.0815	0.0707	0.0724	0.0744	Ave		0.0733				5.9		15.0			
Methacrylonitrile	0.2562 0.2257	0.2249	0.2218	0.2241	0.2233	Ave		0.2293				5.8		15.0			
Tert-amyl-methyl ether (TAME)	0.9102 0.7971	0.8277	0.7794	0.7633	0.7804	Ave		0.8097				6.7		15.0			
n-Butanol	0.4388 0.4757	0.4915	0.4430	0.4494	0.4497	Ave		0.4580				4.5		15.0			
Ethyl acrylate	0.7218 0.6184	0.6277	0.6299	0.6092	0.6338	Ave		0.6401				6.4		15.0			
Methyl methacrylate	0.4082 0.3194	0.3492	0.3157	0.3189	0.3263	Ave		0.3396				11.0		15.0			
2-Nitropropane	0.1251 0.0951	0.1096	0.0843	0.0901	0.0950	Ave		0.0999				15.0		15.0			
Cyclohexanone	0.0646 0.0518	0.0552	0.0513	0.0483	0.0513	Ave		0.0538				11.0		15.0			
Pentachloroethane	0.4638 0.3891	0.3947	0.4349	0.4281	0.2988	Ave		0.4016				14.0		15.0			
1,2,3-Trimethylbenzene	2.5953 2.6872	2.5852	2.5405	2.5237	2.6281	Ave		2.5933				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.: 240-27038-1   Analy Batch No.: 94035

SDG No.:

Instrument ID: A3UX9   GC Column: DB-624   ID: 0.18(mm)   Heated Purge: (Y/N) N

Calibration Start Date: 07/18/2013 00:29   Calibration End Date: 07/18/2013 02:39   Calibration ID: 16293

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								
Benzyl chloride	0.3838 0.3950	0.4444	0.3467	0.3465	0.3806	Ave		0.3828				9.5		15.0			
1,3,5-Trichlorobenzene	0.9085 0.9710	1.1376	0.9412	0.9367	0.9424	Ave		0.9729				8.5		15.0			
2-Methylnaphthalene	1.1443 1.6285	1.3590	1.3726	1.4416	1.5790	Ave		1.4208				12.0		15.0			
n-Butyl acetate	0.8599 0.7643	0.7524	0.7295	0.7267	0.7463	Ave		0.7632				6.5		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
no samples

Lab Name: TestAmerica Canton   Job No.: 240-27038-1

SDG No.:

Lab Sample ID: ICV 240-94035/16   Calibration Date: 07/18/2013 03:31

Instrument ID: A3UX9   Calib Start Date: 07/17/2013 21:52

GC Column: DB-624   ID: 0.18(mm)   Calib End Date: 07/18/2013 00:03

Lab File ID: UX938105.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	0.2890	0.2521		1.00	0.0200	-12.8	50.0
Chloromethane	Ave	0.5477	0.4942	0.1000	1.00	0.0200	-9.8	50.0
Vinyl chloride	Ave	0.5559	0.5104		1.00	0.0200	-8.2	20.0
Bromomethane	Ave	0.1555	0.1607		1.00	0.0200	3.3	50.0
Chloroethane	Ave	0.2950	0.2904		1.00	0.0200	-1.6	50.0
Dichlorofluoromethane	Ave	0.5402	0.5342		2.00	0.0200	-1.1	50.0
Trichlorofluoromethane	Linl		0.3283		1.00	0.0200	-8.3	50.0
Ethyl ether	Ave	0.4511	0.4032		2.00	0.0200	-10.6	50.0
Acrolein	Ave	0.0454	0.0358		20.0	0.120	-21.2	50.0
1,1-Dichloroethene	Ave	0.8166	0.7740		1.00	0.0200	-5.2	20.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Ave	0.2047	0.1925		1.00	0.0200	-5.9	50.0
Acetone	Linl		0.1087		10.0	0.0400	-10.0	50.0
Iodomethane	Ave	0.3989	0.4131		1.00	0.0200	3.6	50.0
Carbon disulfide	Ave	0.8637	0.8973		1.00	0.0200	3.9	50.0
Methyl acetate	Ave	0.2993	0.2678		10.0	0.100	-10.5	50.0
3-Chloro-1-propene	Linl		0.2228		2.00	0.0200	-13.5	50.0
Methylene Chloride	Linl		0.6476		1.00	0.0200	-2.9	50.0
tert-Butyl alcohol	Ave	1.382	1495		50.0	0.200	108039*.1	50.0
Acrylonitrile	Ave	0.2039	0.1854		20.0	0.200	-9.1	50.0
Methyl tert-butyl ether	Ave	0.7666	0.7716		1.00	0.0200	0.7	50.0
trans-1,2-Dichloroethene	Ave	0.6174	0.6427		1.00	0.0200	4.1	50.0
Hexane	Ave	0.4378	0.3440		1.00	0.0200	-21.4*	20.0
1,1-Dichloroethane	Ave	0.6561	0.7066	0.1000	1.00	0.0200	7.7	50.0
Vinyl acetate	Ave	0.0697	0.0594		2.00	0.0192	-14.8	50.0
2-Butanone	Ave	0.1824	0.1674		10.0	0.0400	-8.2	50.0
cis-1,2-Dichloroethene	Ave	0.5958	0.5939		1.00	0.0200	-0.3	50.0
2,2-Dichloropropane	Ave	0.1764	0.1605		1.00	0.0200	-9.0	50.0
Bromochloromethane	Ave	0.3398	0.3355		1.00	0.0200	-1.3	50.0
Tetrahydrofuran	Ave	0.1164	0.1049		5.00	0.0400	-9.9	50.0
Chloroform	Ave	0.4295	0.4318		1.00	0.0200	0.5	20.0
1,1,1-Trichloroethane	Ave	0.2616	0.2699		1.00	0.0200	3.2	50.0
Cyclohexane	Ave	0.6228	0.5435		1.00	0.0200	-12.7	50.0
1,1-Dichloropropene	Ave	0.3111	0.3129		1.00	0.0200	0.6	50.0
Carbon tetrachloride	Ave	0.2292	0.2434		1.00	0.0200	6.2	50.0
Isobutyl alcohol	Ave	0.3473	343.5		50.0	0.500	98806.*0	50.0
1,2-Dichloroethane	Ave	0.5430	0.5288		1.00	0.0200	-2.6	50.0
Benzene	Ave	1.041	1.041		1.00	0.0200	0.0	50.0
n-Heptane	Linl		0.3260		1.00	0.0200	-21.4	50.0
Trichloroethene	Ave	0.2355	0.2407		1.00	0.0200	2.2	50.0

FORM VII 8260B

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton   Job No.: 240-27038-1

SDG No.:

Lab Sample ID: ICV 240-94035/16   Calibration Date: 07/18/2013 03:31

Instrument ID: A3UX9   Calib Start Date: 07/17/2013 21:52

GC Column: DB-624   ID: 0.18(mm)   Calib End Date: 07/18/2013 00:03

Lab File ID: UX938105.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
Methylcyclohexane	Ave	0.3764	0.3413		1.00	0.0200	-9.3	50.0
1,2-Dichloropropane	Ave	0.4099	0.4033		1.00	0.0200	-1.6	20.0
1,4-Dioxane	Ave	1.125	1242		50.0	0.400	110299*.0	50.0
Dibromomethane	Ave	0.1669	0.1625		1.00	0.0200	-2.7	50.0
Bromodichloromethane	Ave	0.3483	0.3388		1.00	0.0200	-2.7	50.0
2-Chloroethyl vinyl ether	Ave	0.2803	0.2749		10.0	0.0400	-1.9	50.0
cis-1,3-Dichloropropene	Ave	0.4108	0.4209		1.00	0.0200	2.5	50.0
4-Methyl-2-pentanone	Ave	0.3725	0.3429		10.0	0.0400	-7.9	50.0
Toluene	Ave	1.464	1.471		1.00	0.0200	0.4	20.0
trans-1,3-Dichloropropene	Ave	0.5090	0.5402		1.00	0.0200	6.1	50.0
Ethyl methacrylate	Ave	0.5009	0.4909		1.00	0.0200	-2.0	50.0
1,1,2-Trichloroethane	Ave	0.3134	0.3198		1.00	0.0200	2.0	50.0
Tetrachloroethene	Ave	0.2880	0.2989		1.00	0.0200	3.8	50.0
1,3-Dichloropropane	Ave	0.5806	0.5798		1.00	0.0200	-0.2	50.0
2-Hexanone	Ave	0.3776	0.3321		10.0	0.0400	-12.1	50.0
Dibromochloromethane	Lin1		0.3123		1.00	0.0200	-6.2	50.0
1,2-Dibromoethane	Ave	0.3371	0.3203		1.00	0.0200	-5.0	50.0
Chlorobenzene	Ave	0.9742	0.9387	0.3000	1.00	0.0200	-3.6	50.0
1,1,1,2-Tetrachloroethane	Ave	0.3055	0.3225		1.00	0.0200	5.6	50.0
Ethylbenzene	Ave	0.4800	0.4872		1.00	0.0200	1.5	20.0
m-Xylene & p-Xylene	Ave	0.5823	0.5940		2.00	0.0200	2.0	50.0
o-Xylene	Ave	0.5665	0.6200		1.00	0.0200	9.4	50.0
Styrene	Ave	1.039	1.053		1.00	0.0200	1.3	50.0
Bromoform	Lin1		0.2202	0.1000	1.00	0.0200	-9.2	50.0
Isopropylbenzene	Ave	1.302	1.361		1.00	0.0200	4.6	50.0
1,1,2,2-Tetrachloroethane	Ave	0.9505	0.9115	0.3000	1.00	0.0200	-4.1	50.0
Bromobenzene	Ave	0.8391	0.8374		1.00	0.0200	-0.2	50.0
1,2,3-Trichloropropane	Ave	0.3112	0.3229		1.00	0.0200	3.8	50.0
trans-1,4-Dichloro-2-butene	Lin1		0.4538		1.00	0.0200	-8.1	50.0
n-Propylbenzene	Ave	0.7114	0.6529		1.00	0.0200	-8.2	50.0
2-Chlorotoluene	Ave	0.6687	0.6543		1.00	0.0200	-2.1	50.0
1,3,5-Trimethylbenzene	Ave	2.126	2.181		1.00	0.0200	2.6	50.0
4-Chlorotoluene	Ave	0.7064	0.6931		1.00	0.0200	-1.9	50.0
tert-Butylbenzene	Ave	1.744	2.014		1.00	0.0200	15.5	50.0
1,2,4-Trimethylbenzene	Ave	2.354	2.350		1.00	0.0200	-0.2	50.0
sec-Butylbenzene	Ave	2.466	2.486		1.00	0.0200	0.8	50.0
1,3-Dichlorobenzene	Ave	1.519	1.436		1.00	0.0200	-5.4	50.0
p-Isopropyltoluene	Ave	2.203	2.160		0.0196	0.0200	-2.0	50.0
1,4-Dichlorobenzene	Ave	1.585	1.526		1.00	0.0200	-3.8	50.0
n-Butylbenzene	Ave	1.957	1.845		1.00	0.0200	-5.7	50.0

FORM VII 8260B

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-27038-1

SDG No.:

Lab Sample ID: ICV 240-94035/16 Calibration Date: 07/18/2013 03:31

Instrument ID: A3UX9 Calib Start Date: 07/17/2013 21:52

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/18/2013 00:03

Lab File ID: UX938105.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-Dichlorobenzene	Ave	1.483	1.424		1.00	0.0200	-4.0	50.0
1,2-Dibromo-3-Chloropropane	Ave	0.2010	0.2092		2.00	0.0200	4.0	50.0
1,2,4-Trichlorobenzene	Ave	0.8272	0.8391		1.00	0.0200	1.4	50.0
Hexachlorobutadiene	Lin1		0.3354		1.00	0.0200	-1.4	50.0
Naphthalene	Ave	2.492	2.510		1.00	0.0200	0.7	50.0
1,2,3-Trichlorobenzene	Ave	0.8449	0.7936		1.00	0.0200	-6.1	50.0
Dibromofluoromethane (Surr)	Ave	0.2126	0.2192		0.0206	0.0200	3.1	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3891	0.3672		0.0189	0.0200	-5.6	50.0
Toluene-d8 (Surr)	Ave	1.212	1.254		0.0207	0.0200	3.5	50.0
4-Bromofluorobenzene (Surr)	Ave	0.4847	0.4853		0.0200	0.0200	0.1	50.0

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-27038-1

SDG No.:

Lab File ID: BFB2400.D BFB Injection Date: 07/22/2013

Instrument ID: A3UX9 BFB Injection Time: 17:09

Analysis Batch No.: 94518

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	28.0	
75	30.0 - 60.0 % of mass 95	50.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.1	
173	Less than 2.0 % of mass 174	0.7	(0.8)1
174	50.0 - 120.00 % of mass 95	78.7	
175	5.0 - 9.0 % of mass 174	6.4	(8.1)1
176	95.0 - 101.0 % of mass 174	76.0	(96.6)1
177	5.0 - 9.0 % of mass 176	4.6	(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 midnight 24:00
MSA-SW40A-071813	240-27038-13	UX938171.D	07/2~~2~~3/2013	~~00:00~~
	CCVIS 240-94518/3	UX938155.D	07/22/2013	17:39
	LCS 240-94518/6	UX938156.D	07/22/2013	18:05
	CCV 240-94518/4	UX938157.D	07/22/2013	18:31
	MB 240-94518/5	UX938158.D	07/22/2013	18:57
MSA-SW37A-071813	240-27038-1	UX938159.D	07/22/2013	19:20
MSA-SW37B-071813	240-27038-2	UX938160.D	07/22/2013	19:44
MSA-SW37C-071813	240-27038-3	UX938161.D	07/22/2013	20:08
MSA-SW37D-071813	240-27038-4	UX938162.D	07/22/2013	20:32
MSA-SW38A-071813	240-27038-5	UX938163.D	07/22/2013	20:55
MSA-SW38B-071813	240-27038-6	UX938164.D	07/22/2013	21:17
MSA-SW38C-071813	240-27038-7	UX938165.D	07/22/2013	21:41
MSA-SW38D-071813	240-27038-8	UX938166.D	07/22/2013	22:05
MSA-SW39A-071813	240-27038-9	UX938167.D	07/22/2013	22:29
MSA-SW39B-071813	240-27038-10	UX938168.D	07/22/2013	22:51
MSA-SW39C-071813	240-27038-11	UX938169.D	07/22/2013	23:14
MSA-SW39D-071813	240-27038-12	UX938170.D	07/22/2013	23:37
MSA-SW40B-071813	240-27038-14	UX938172.D	07/23/2013	00:23
MSA-SW40C-071813	240-27038-15	UX938173.D	07/23/2013	00:46
MSA-SW40D-071813	240-27038-16	UX938174.D	07/23/2013	01:09
MSA-SW41A-071813	240-27038-17	UX938175.D	07/23/2013	01:32
MSA-SW41B-071813	240-27038-18	UX938176.D	07/23/2013	01:55
MSA-SW41C-071813	240-27038-19	UX938177.D	07/23/2013	02:18
MSA-SW41D-071813	240-27038-20	UX938178.D	07/23/2013	02:41

w/ per J.McCh[illegible] 8/1/13 MA

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton   Job No.: 240-27038-1

SDG No.:

Lab Sample ID: CCVIS 240-94518/3   Calibration Date: 07/22/2013 17:39

Instrument ID: A3UX9   Calib Start Date: 07/17/2013 21:52

GC Column: DB-624   ID: 0.18(mm)   Calib End Date: 07/18/2013 00:03

Lab File ID: UX938155.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	0.2890	0.3438		1.00	0.0200	19.0	50.0
Chloromethane	Ave	0.5477	0.5355	0.1000	1.00	0.0200	-2.2	50.0
Vinyl chloride	Ave	0.5559	0.5604		1.00	0.0200	0.8	20.0
Bromomethane	Ave	0.1555	0.1625		1.00	0.0200	4.5	50.0
Chloroethane	Ave	0.2950	0.3185		1.00	0.0200	7.9	50.0
Dichlorofluoromethane	Ave	0.5402	0.5842		2.00	0.0200	8.1	50.0
Trichlorofluoromethane	Lin1		0.4218		1.00	0.0200	17.3	50.0
Ethyl ether	Ave	0.4511	0.3776		2.00	0.0200	-16.3	50.0
Acrolein	Ave	0.0454	0.0278		20.0	0.100	-38.8	50.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Ave	0.2047	0.2207		1.00	0.0200	7.8	50.0
1,1-Dichloroethene	Ave	0.8166	0.7681		1.00	0.0200	-5.9	20.0
Acetone	Lin1		0.1032		10.0	0.0400	-14.9	50.0
Iodomethane	Ave	0.3989	0.3810		1.00	0.0200	-4.5	50.0
Carbon disulfide	Ave	0.8637	0.9147		1.00	0.0200	5.9	50.0
Methyl acetate	Ave	0.2993	0.2532		10.0	0.100	-15.4	50.0
3-Chloro-1-propene	Lin1		0.2591		2.00	0.0200	0.2	50.0
Methylene Chloride	Lin1		0.6447		1.00	0.0200	-3.4	50.0
tert-Butyl alcohol	Ave	1.382	~~1250~~	0.04189	~~50.0~~ 200	0.200	90312.*3 — 979	50.0
Acrylonitrile	Ave	0.2039	0.1763		20.0	0.200	-13.5	50.0
Methyl tert-butyl ether	Ave	0.7666	0.7405	MA 8/6/13	1.00	0.0200	-3.4	50.0
trans-1,2-Dichloroethene	Ave	0.6174	0.5945		1.00	0.0200	-3.7	50.0
Hexane	Ave	0.4378	0.3778		1.00	0.0200	-13.7	20.0
1,1-Dichloroethane	Ave	0.6561	0.5173	0.1000	1.00	0.0200	-21.2	50.0
Vinyl acetate	Ave	0.0697	0.0521		2.00	0.0192	-25.3	50.0
2,2-Dichloropropane	Ave	0.1764	0.1597		1.00	0.0200	-9.5	50.0
2-Butanone	Ave	0.1824	0.1444		10.0	0.0400	-20.9	50.0
cis-1,2-Dichloroethene	Ave	0.5958	0.5637		1.00	0.0200	-5.4	50.0
Bromochloromethane	Ave	0.3398	0.3038		1.00	0.0200	-10.6	50.0
Tetrahydrofuran	Ave	0.1164	0.0991		5.00	0.0400	-14.9	50.0
Chloroform	Ave	0.4295	0.4165		1.00	0.0200	-3.0	20.0
1,1,1-Trichloroethane	Ave	0.2616	0.2676		1.00	0.0200	2.3	50.0
Cyclohexane	Ave	0.6228	0.6084		1.00	0.0200	-2.3	50.0
1,1-Dichloropropene	Ave	0.3111	0.2909		1.00	0.0200	-6.5	50.0
Carbon tetrachloride	Ave	0.2292	0.2624		1.00	0.0200	14.5	50.0
Isobutyl alcohol	Ave	0.3473	315.6		50.0	0.500	90775.*5	50.0
1,2-Dichloroethane	Ave	0.5430	0.4968		1.00	0.0200	-8.5	50.0
Benzene	Ave	1.041	1.021		1.00	0.0200	-2.0	50.0
n-Heptane	Lin1		0.3323		1.00	0.0200	-18.4	50.0
Trichloroethene	Ave	0.2355	0.2362		1.00	0.0200	0.3	50.0

FORM VII 8260B

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton   Job No.: 240-27038-1

SDG No.:

Lab Sample ID: CCVIS 240-94518/3   Calibration Date: 07/22/2013 17:39

Instrument ID: A3UX9   Calib Start Date: 07/17/2013 21:52

GC Column: DB-624   ID: 0.18(mm)   Calib End Date: 07/18/2013 00:03

Lab File ID: UX938155.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
Methylcyclohexane	Ave	0.3764	0.3702		1.00	0.0200	-1.7	50.0
1,2-Dichloropropane	Ave	0.4099	0.3576		1.00	0.0200	-12.8	20.0
1,4-Dioxane	Ave	1.125	1255		50.0	0.400	111495*.9	50.0
Dibromomethane	Ave	0.1669	0.1595		1.00	0.0200	-4.4	50.0
Bromodichloromethane	Ave	0.3483	0.3235		1.00	0.0200	-7.1	50.0
2-Chloroethyl vinyl ether	Ave	0.2803	0.2567		10.0	0.0400	-8.4	50.0
cis-1,3-Dichloropropene	Ave	0.4108	0.3972		1.00	0.0200	-3.3	50.0
4-Methyl-2-pentanone	Ave	0.3725	0.3145		10.0	0.0400	-15.6	50.0
Toluene	Ave	1.464	1.386		1.00	0.0200	-5.4	20.0
trans-1,3-Dichloropropene	Ave	0.5090	0.4656		1.00	0.0200	-8.5	50.0
Ethyl methacrylate	Ave	0.5009	0.4458		1.00	0.0200	-11.0	50.0
1,1,2-Trichloroethane	Ave	0.3134	0.3128		1.00	0.0200	-0.2	50.0
Tetrachloroethene	Ave	0.2880	0.2814		1.00	0.0200	-2.3	50.0
1,3-Dichloropropane	Ave	0.5806	0.5531		1.00	0.0200	-4.7	50.0
2-Hexanone	Ave	0.3776	0.2856		10.0	0.0400	-24.4	50.0
Dibromochloromethane	Lin1		0.2946		1.00	0.0200	-11.5	50.0
1,2-Dibromoethane	Ave	0.3371	0.3087		1.00	0.0200	-8.4	50.0
Chlorobenzene	Ave	0.9742	0.8866	0.3000	1.00	0.0200	-9.0	50.0
1,1,1,2-Tetrachloroethane	Ave	0.3055	0.2906		1.00	0.0200	-4.9	50.0
Ethylbenzene	Ave	0.4800	0.4508		1.00	0.0200	-6.1	20.0
m-Xylene & p-Xylene	Ave	0.5823	0.5506		2.00	0.0200	-5.4	50.0
o-Xylene	Ave	0.5665	0.5587		1.00	0.0200	-1.4	50.0
Styrene	Ave	1.039	1.020		1.00	0.0200	-1.9	50.0
Bromoform	Lin1		0.2185	0.1000	1.00	0.0200	-9.8	50.0
Isopropylbenzene	Ave	1.302	1.306		1.00	0.0200	0.3	50.0
1,1,2,2-Tetrachloroethane	Ave	0.9505	0.8911	0.3000	1.00	0.0200	-6.2	50.0
Bromobenzene	Ave	0.8391	0.7829		1.00	0.0200	-6.7	50.0
1,2,3-Trichloropropane	Ave	0.3112	0.2950		1.00	0.0200	-5.2	50.0
trans-1,4-Dichloro-2-butene	Lin1		0.4858		1.00	0.0200	-1.7	50.0
n-Propylbenzene	Ave	0.7114	0.6665		1.00	0.0200	-6.3	50.0
2-Chlorotoluene	Ave	0.6687	0.6157		1.00	0.0200	-7.9	50.0
1,3,5-Trimethylbenzene	Ave	2.126	2.058		1.00	0.0200	-3.2	50.0
4-Chlorotoluene	Ave	0.7064	0.6634		1.00	0.0200	-6.1	50.0
tert-Butylbenzene	Ave	1.744	1.678		1.00	0.0200	-3.8	50.0
1,2,4-Trimethylbenzene	Ave	2.354	2.280		1.00	0.0200	-3.2	50.0
sec-Butylbenzene	Ave	2.466	2.414		1.00	0.0200	-2.1	50.0
1,3-Dichlorobenzene	Ave	1.519	1.363		1.00	0.0200	-10.3	50.0
p-Isopropyltoluene	Ave	2.203	2.136		0.0194	0.0200	-3.1	50.0
1,4-Dichlorobenzene	Ave	1.585	1.447		1.00	0.0200	-8.7	50.0
n-Butylbenzene	Ave	1.957	1.882		1.00	0.0200	-3.9	50.0

FORM VII 8260B

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-27038-1

SDG No.:

Lab Sample ID: CCVIS 240-94518/3 Calibration Date: 07/22/2013 17:39

Instrument ID: A3UX9 Calib Start Date: 07/17/2013 21:52

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/18/2013 00:03

Lab File ID: UX938155.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-Dichlorobenzene	Ave	1.483	1.393		1.00	0.0200	-6.1	50.0
1,2-Dibromo-3-Chloropropane	Ave	0.2010	0.1893		2.00	0.0200	-5.8	50.0
1,2,4-Trichlorobenzene	Ave	0.8272	0.8009		1.00	0.0200	-3.2	50.0
Hexachlorobutadiene	Lin1		0.3067		1.00	0.0200	-9.9	50.0
Naphthalene	Ave	2.492	2.423		1.00	0.0200	-2.8	50.0
1,2,3-Trichlorobenzene	Ave	0.8449	0.7400		1.00	0.0200	-12.4	50.0
Dibromofluoromethane (Surr)	Ave	0.2126	0.2127		0.0200	0.0200	0.0	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3891	0.3573		0.0184	0.0200	-8.2	50.0
Toluene-d8 (Surr)	Ave	1.212	1.191		0.0197	0.0200	-1.7	50.0
4-Bromofluorobenzene (Surr)	Ave	0.4847	0.4897		0.0202	0.0200	1.0	50.0

FORM VII 8260B

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton   Job No.: 240-27038-1

SDG No.:

Lab File ID: UX938158.D   Lab Sample ID: MB 240-94518/5

Matrix: Water   Heated Purge:(Y/N) N

Instrument ID: A3UX9   Date Analyzed: 07/22/2013 18:57

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 midnight 24:00
MSA-SW40A-071813	240-27038-13	UX938171.D	07/22/2013 ~~00:00~~ MA 8/6/13
	LCS 240-94518/6	UX938156.D	07/22/2013 18:05
MSA-SW37A-071813	240-27038-1	UX938159.D	07/22/2013 19:20
MSA-SW37B-071813	240-27038-2	UX938160.D	07/22/2013 19:44
MSA-SW37C-071813	240-27038-3	UX938161.D	07/22/2013 20:08
MSA-SW37D-071813	240-27038-4	UX938162.D	07/22/2013 20:32
MSA-SW38A-071813	240-27038-5	UX938163.D	07/22/2013 20:55
MSA-SW38B-071813	240-27038-6	UX938164.D	07/22/2013 21:17
MSA-SW38C-071813	240-27038-7	UX938165.D	07/22/2013 21:41
MSA-SW38D-071813	240-27038-8	UX938166.D	07/22/2013 22:05
MSA-SW39A-071813	240-27038-9	UX938167.D	07/22/2013 22:29
MSA-SW39B-071813	240-27038-10	UX938168.D	07/22/2013 22:51
MSA-SW39C-071813	240-27038-11	UX938169.D	07/22/2013 23:14
MSA-SW39D-071813	240-27038-12	UX938170.D	07/22/2013 23:37
MSA-SW40B-071813	240-27038-14	UX938172.D	07/23/2013 00:23
MSA-SW40C-071813	240-27038-15	UX938173.D	07/23/2013 00:46
MSA-SW40D-071813	240-27038-16	UX938174.D	07/23/2013 01:09
MSA-SW41A-071813	240-27038-17	UX938175.D	07/23/2013 01:32
MSA-SW41B-071813	240-27038-18	UX938176.D	07/23/2013 01:55
MSA-SW41C-071813	240-27038-19	UX938177.D	07/23/2013 02:18
MSA-SW41D-071813	240-27038-20	UX938178.D	07/23/2013 02:41

FORM IV 8260B

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton   Job No.: 240-27038-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-94518/5

Matrix: Water   Lab File ID: UX938158.D

Analysis Method: 8260B   Date Collected:

Sample wt/vol: 5(mL)   Date Analyzed: 07/22/2013 18:57

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.: 94518   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	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
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
78-93-3	2-Butanone	5.0	U	5.0	0.57
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	5.0	U	5.0	0.41
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
67-64-1	Acetone	5.0	U	5.0	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
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton　　Job No.: 240-27038-1

SDG No.:

Client Sample ID:　　Lab Sample ID: MB 240-94518/5

Matrix: Water　　Lab File ID: UX938158.D

Analysis Method: 8260B　　Date Collected:

Sample wt/vol: 5(mL)　　Date Analyzed: 07/22/2013 18:57

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.: 94518　　Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
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
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
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	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	0.631	J	1.0	0.30
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.17
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
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
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
75-65-0	tert-Butyl alcohol	20	U	20	3.9
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	0.50	U	0.50	0.22

FORM I 8260B

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-27038-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-94518/5

Matrix: Water Lab File ID: UX938158.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 07/22/2013 18:57

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.: 94518 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)	89		63-129
460-00-4	4-Bromofluorobenzene (Surr)	95		66-117
1868-53-7	Dibromofluoromethane (Surr)	100		75-121
2037-26-5	Toluene-d8 (Surr)	100		74-115

FORM I 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-27038-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UX938156.D

Lab ID: LCS 240-94518/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	20.0	20.7	104	72-116	
1,1,1-Trichloroethane	20.0	21.4	107	74-118	
1,1,2,2-Tetrachloroethane	20.0	20.1	101	68-118	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	20.9	104	74-151	
1,1-Dichloroethane	20.0	16.9	85	82-115	
1,1-Dichloroethene	20.0	18.9	95	78-131	
1,1-Dichloropropene	20.0	21.6	108	83-114	
1,2,3-Trichlorobenzene	20.0	19.8	99	54-126	
1,2,3-Trichloropropane	20.0	21.1	105	73-129	
1,2,4-Trichlorobenzene	20.0	21.3	106	48-135	
1,2,4-Trimethylbenzene	20.0	21.0	105	76-120	
1,2-Dibromo-3-Chloropropane	20.0	20.5	103	42-136	
1,2-Dibromoethane	20.0	18.9	94	79-113	
1,2-Dichlorobenzene	20.0	20.3	101	81-110	
1,2-Dichloroethane	20.0	19.2	96	71-127	
1,2-Dichloropropane	20.0	18.3	92	81-115	
1,3-Dichlorobenzene	20.0	20.1	100	80-110	
1,3-Dichloropropane	20.0	19.9	99	79-116	
1,4-Dichlorobenzene	20.0	20.0	100	82-110	
2,2-Dichloropropane	20.0	18.5	93	50-129	
2-Butanone	40.0	34.2	85	60-126	
2-Chloroethyl vinyl ether	40.0	38.6	97	52-131	
2-Chlorotoluene	20.0	20.1	101	76-116	
2-Hexanone	40.0	33.1	83	55-133	
4-Chlorotoluene	20.0	21.7	109	77-115	
4-Methyl-2-pentanone	40.0	35.5	89	63-128	
Acetone	40.0	36.1	90	43-136	
Benzene	20.0	20.2	101	83-112	
Bromobenzene	20.0	20.1	100	76-115	
Bromochloromethane	20.0	18.6	93	77-120	
Bromodichloromethane	20.0	19.0	95	72-121	
Bromoform	20.0	19.3	97	40-131	
Bromomethane	20.0	21.9	110	11-185	
Carbon disulfide	20.0	21.8	109	62-142	
Carbon tetrachloride	20.0	24.1	120	66-128	
Chlorobenzene	20.0	19.3	96	85-110	
Chloroethane	20.0	19.6	98	25-153	
Chloroform	20.0	20.7	103	79-117	
Chloromethane	20.0	19.1	95	44-126	
cis-1,2-Dichloroethene	20.0	19.5	97	80-113	
cis-1,3-Dichloropropene	20.0	20.6	103	61-115	

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.: 240-27038-1

SDG No.:

Matrix: Water   Level: Low   Lab File ID: UX938156.D

Lab ID: LCS 240-94518/6   Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Dibromochloromethane	20.0	18.7	93	64-119	
Dibromomethane	20.0	19.3	97	81-120	
Dichlorodifluoromethane	20.0	22.4	112	19-129	
Ethylbenzene	20.0	19.9	100	83-112	
Hexachlorobutadiene	20.0	20.7	104	36-134	
Isopropylbenzene	20.0	20.6	103	75-114	
Methyl tert-butyl ether	20.0	20.1	101	52-144	
Methylene Chloride	20.0	19.4	97	66-131	
m-Xylene & p-Xylene	20.0	21.0	105	83-113	
Naphthalene	20.0	20.7	104	32-141	
n-Butylbenzene	20.0	21.4	107	66-125	
n-Propylbenzene	20.0	20.0	100	74-121	
o-Xylene	20.0	20.9	104	83-113	
p-Isopropyltoluene	20.0	21.0	105	74-120	
sec-Butylbenzene	20.0	22.2	111	70-117	
Styrene	20.0	20.1	100	79-114	
tert-Butyl alcohol	200	204	102	70-130	
tert-Butylbenzene	20.0	21.6	108	71-115	
Tetrachloroethene	20.0	22.5	112	79-114	
Toluene	20.0	20.2	101	84-111	
trans-1,2-Dichloroethene	20.0	20.7	104	83-117	
trans-1,3-Dichloropropene	20.0	20.5	103	58-117	
Trichloroethene	20.0	21.3	107	76-117	
Trichlorofluoromethane	20.0	22.3	111	49-157	
Vinyl acetate	20.0	17.3	87	46-161	
Vinyl chloride	20.0	18.8	94	53-127	
Xylenes, Total	40.0	41.9	105	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.: 240-27038-1

SDG No.:

Lab File ID: BFB390.D   BFB Injection Date: 07/24/2013

Instrument ID: A3UX17   BFB Injection Time: 11:07

Analysis Batch No.: 94801

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.2	
75	30.0 - 60.0 % of mass 95	45.1	
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	0.5	(0.5)1
174	50.0 - 120.00 % of mass 95	99.7	
175	5.0 - 9.0 % of mass 174	7.4	(7.4)1
176	95.0 - 101.0 % of mass 174	99.7	(100.0)1
177	5.0 - 9.0 % of mass 176	6.4	(6.4)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 240-94801/2	UXR6571.D	07/24/2013	11:34
	CCV 240-94801/3	UXR6572.D	07/24/2013	11:56
	LCS 240-94801/4	UXR6573.D	07/24/2013	12:18
	MB 240-94801/6	UXR6575.D	07/24/2013	13:03
TB-071813	240-27038-41	UXR6576.D	07/24/2013	13:25

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton   Job No.: 240-27038-1

SDG No.:

Lab Sample ID: CCVIS 240-94801/2   Calibration Date: 07/24/2013 11:34

Instrument ID: A3UX17   Calib Start Date: 07/02/2013 09:46

GC Column: DB-624   ID: 0.18(mm)   Calib End Date: 07/02/2013 11:37

Lab File ID: UXR6571.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	0.3202	0.3103		1.00	0.0100	-3.1	50.0
Chloromethane	Ave	0.4418	0.4137	0.1000	1.00	0.0100	-6.4	50.0
Vinyl chloride	Ave	0.3741	0.3686		1.00	0.0100	-1.5	20.0
Bromomethane	Ave	0.1155	0.1494		1.00	0.0100	29.3	50.0
Chloroethane	Ave	0.1132	0.1586		1.00	0.0100	40.1	50.0
Trichlorofluoromethane	Ave	0.3266	0.3413		1.00	0.0100	4.5	50.0
Acrolein	Ave	0.0479	0.0346		20.0	0.100	-27.8	50.0
1,1-Dichloroethene	Ave	0.2763	0.2923		1.00	0.0100	5.8	20.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Ave	0.2358	0.2605		1.00	0.0100	10.5	50.0
Acetone	Linl		0.0833		10.0	0.0200	-13.9	50.0
Iodomethane	Ave	0.4062	0.4669		1.00	0.0100	14.9	50.0
Carbon disulfide	Ave	0.7726	0.8319		1.00	0.0100	7.7	50.0
Acetonitrile	Linl		0.0361		20.0	0.100	4.8	50.0
Methyl acetate	Ave	0.2382	0.2237		10.0	0.0200	-6.1	50.0
Methylene Chloride	Linl		0.4459		1.00	0.0100	34.3	50.0
tert-Butyl alcohol	Ave	0.0184	0.0157		50.0	0.200	-14.3	50.0
Acrylonitrile	Ave	0.1236	0.1103		20.0	0.0200	-10.7	50.0
Methyl tert-butyl ether	Ave	0.7459	0.6778		1.00	0.0100	-9.1	50.0
trans-1,2-Dichloroethene	Ave	0.3011	0.3145		1.00	0.0100	4.5	50.0
Hexane	Ave	0.0750	0.0717		1.00	0.0100	-4.4	20.0
1,1-Dichloroethane	Ave	0.5220	0.5244	0.1000	1.00	0.0100	0.4	50.0
Vinyl acetate	Ave	0.0464	0.0354		2.00	0.0100	-23.8	50.0
2,2-Dichloropropane	Ave	0.2835	0.2877		1.00	0.0100	1.5	50.0
cis-1,2-Dichloroethene	Ave	0.3056	0.3117		1.00	0.0100	2.0	50.0
2-Butanone	Ave	0.1316	0.1119		10.0	0.0200	-14.9	50.0
Bromochloromethane	Ave	0.1468	0.1570		1.00	0.0100	7.0	50.0
Tetrahydrofuran	Ave	0.0801	0.0639		5.00	0.0100	-20.2	50.0
Chloroform	Ave	0.5063	0.5117		1.00	0.0100	1.1	20.0
1,1,1-Trichloroethane	Ave	0.4071	0.4110		1.00	0.0100	0.9	50.0
Cyclohexane	Ave	0.5827	0.5641		1.00	0.0100	-3.2	50.0
1,1-Dichloropropene	Ave	0.3869	0.3862		1.00	0.0100	-0.2	50.0
Carbon tetrachloride	Ave	0.3771	0.3895		1.00	0.0100	3.3	50.0
Benzene	Ave	1.171	1.204		1.00	0.0100	2.8	50.0
1,2-Dichloroethane	Ave	0.4201	0.4016		1.00	0.0100	-4.4	50.0
Trichloroethene	Ave	0.2979	0.3186		1.00	0.0100	7.0	50.0
Methylcyclohexane	Ave	0.4828	0.4773		1.00	0.0100	-1.1	50.0
1,2-Dichloropropane	Ave	0.2921	0.2886		1.00	0.0100	-1.2	20.0
1,4-Dioxane	Ave	0.0025	0.0024		50.0	0.500	-7.9	50.0
Dibromomethane	Ave	0.1529	0.1609		1.00	0.0100	5.2	50.0
Bromodichloromethane	Ave	0.3429	0.3504		1.00	0.0100	2.2	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton   Job No.: 240-27038-1

SDG No.:

Lab Sample ID: CCVIS 240-94801/2   Calibration Date: 07/24/2013 11:34

Instrument ID: A3UX17   Calib Start Date: 07/02/2013 09:46

GC Column: DB-624   ID: 0.18(mm)   Calib End Date: 07/02/2013 11:37

Lab File ID: UXR6571.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	0.1590	0.1405		10.0	0.0200	-11.7	50.0
cis-1,3-Dichloropropene	Ave	0.3874	0.3883		1.00	0.0100	0.2	50.0
4-Methyl-2-pentanone	Ave	0.2569	0.2137		10.0	0.0200	-16.8	50.0
Toluene	Ave	1.523	1.451		1.00	0.0100	-4.7	20.0
trans-1,3-Dichloropropene	Linl		0.3771		1.00	0.0100	-21.3	50.0
Ethyl methacrylate	Linl		0.3464		1.00	0.0100	-22.6	50.0
1,1,2-Trichloroethane	Ave	0.2989	0.2838		1.00	0.0100	-5.1	50.0
Tetrachloroethene	Ave	0.3422	0.3330		1.00	0.0100	-2.7	50.0
1,3-Dichloropropane	Ave	0.5460	0.4791		1.00	0.0100	-12.3	50.0
2-Hexanone	Ave	0.2215	0.1697		10.0	0.0200	-23.4	50.0
Dibromochloromethane	Ave	0.3056	0.2886		1.00	0.0100	-5.6	50.0
1,2-Dibromoethane	Ave	0.3019	0.2762		1.00	0.0100	-8.5	50.0
Chlorobenzene	Ave	1.041	0.9882	0.3000	1.00	0.0100	-5.1	50.0
1,1,1,2-Tetrachloroethane	Ave	0.3495	0.3454		1.00	0.0100	-1.2	50.0
Ethylbenzene	Ave	0.5348	0.5109		1.00	0.0100	-4.5	20.0
m-Xylene & p-Xylene	Ave	0.6704	0.6736		2.00	0.0200	0.5	50.0
o-Xylene	Ave	0.6303	0.6042		1.00	0.0100	-4.1	50.0
Styrene	Ave	1.025	1.041		1.00	0.0100	1.6	50.0
Bromoform	Ave	0.1896	0.1912	0.1000	1.00	0.0100	0.8	50.0
Isopropylbenzene	Ave	1.585	1.506		1.00	0.0100	-4.9	50.0
1,1,2,2-Tetrachloroethane	Ave	0.6677	0.5298	0.3000	1.00	0.0100	-20.7	50.0
Bromobenzene	Ave	0.8260	0.7214		1.00	0.0100	-12.7	50.0
1,2,3-Trichloropropane	Ave	0.2416	0.1885		1.00	0.0100	-22.0	50.0
trans-1,4-Dichloro-2-butene	Ave	0.1878	0.1468		1.00	0.0100	-21.8	50.0
n-Propylbenzene	Ave	0.8092	0.7324		1.00	0.0100	-9.5	50.0
2-Chlorotoluene	Ave	0.6963	0.6440		1.00	0.0100	-7.5	50.0
1,3,5-Trimethylbenzene	Ave	2.380	2.141		1.00	0.0100	-10.0	50.0
4-Chlorotoluene	Ave	0.7433	0.6929		1.00	0.0100	-6.8	50.0
tert-Butylbenzene	Ave	2.192	1.866		1.00	0.0100	-14.9	50.0
1,2,4-Trimethylbenzene	Ave	2.403	2.201		1.00	0.0100	-8.4	50.0
sec-Butylbenzene	Ave	2.839	2.510		1.00	0.0100	-11.6	50.0
1,3-Dichlorobenzene	Ave	1.540	1.384		1.00	0.0100	-10.1	50.0
p-Isopropyltoluene	Ave	2.514	2.272		1.00	0.0100	-9.6	50.0
1,4-Dichlorobenzene	Ave	1.604	1.425		1.00	0.0100	-11.1	50.0
n-Butylbenzene	Ave	2.069	1.750		1.00	0.0100	-15.4	50.0
1,2-Dichlorobenzene	Ave	1.463	1.272		1.00	0.0100	-13.0	50.0
1,2-Dibromo-3-Chloropropane	Ave	0.1078	0.0722		2.00	0.0100	-33.0	50.0
1,3,5-Trichlorobenzene	Ave	1.157	0.8901		1.00	0.0100	-23.1	50.0
1,2,4-Trichlorobenzene	Qua		0.6390		1.00	0.0100	-42.3	50.0
Hexachlorobutadiene	Qua		0.3647		1.00	0.0100	-35.4	50.0
Naphthalene	Ave	1.974	0.8104		1.00	0.0100	-59.0*	50.0

FORM VII 8260B

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-27038-1

SDG No.:

Lab Sample ID: CCVIS 240-94801/2 Calibration Date: 07/24/2013 11:34

Instrument ID: A3UX17 Calib Start Date: 07/02/2013 09:46

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/02/2013 11:37

Lab File ID: UXR6571.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	Linl		0.4486		1.00	0.0100	-55.0*	50.0
Dibromofluoromethane (Surr)	Ave	0.2564	0.2366		0.00822	0.00891	-7.7	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3470	0.2861		0.00735	0.00891	-17.6	50.0
Toluene-d8 (Surr)	Ave	1.349	1.104		0.00729	0.00891	-18.2	50.0
4-Bromofluorobenzene (Surr)	Ave	0.5052	0.4407		0.00777	0.00891	-12.8	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-27038-1

SDG No.:

Lab Sample ID: CCV 240-94801/3 Calibration Date: 07/24/2013 11:56

Instrument ID: A3UX17 Calib Start Date: 05/07/2013 14:13

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 05/07/2013 16:05

Lab File ID: UXR6572.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
Dichlorofluoromethane	Ave	0.4497	0.3873		2.00	0.0100	-13.9	50.0
Ethyl ether	Ave	0.2647	0.2444		2.00	0.0100	-7.7	50.0
3-Chloro-1-propene	Ave	0.1427	0.1238		2.00	0.0100	-13.3	50.0
Diisopropyl ether	Ave	0.2531	0.2350		10.0	0.0500	-7.2	50.0
2-Chloro-1,3-butadiene	Ave	0.4867	0.4687		2.00	0.0100	-3.7	50.0
Ethyl-t-butyl ether (ETBE)	Ave	0.9284	0.7122		5.00	0.0100	-23.3	50.0
Ethyl acetate	Ave	0.2704	0.2048		4.00	0.0200	-24.3	50.0
Propionitrile	Ave	0.0414	0.0349		4.00	0.0200	-15.8	50.0
Methacrylonitrile	Ave	0.1979	0.1361		2.00	0.0100	-31.2	50.0
Isobutyl alcohol	Ave	0.0118	0.0084		50.0	0.200	-29.4	50.0
Tert-amyl-methyl ether (TAME)	Ave	0.7736	0.5498		5.00	0.0100	-28.9	50.0
n-Heptane	Ave	0.0714	0.0703		1.00	0.0100	-1.6	50.0
n-Butanol	Ave	0.0094	0.0061		50.0	0.200	-35.1	50.0
Methyl methacrylate	Ave	0.2516	0.1704		2.00	0.0100	-32.3	50.0
2-Nitropropane	Ave	0.0594	0.0410		2.00	0.0200	-30.9	50.0
Cyclohexanone	Ave	0.1188	0.0805		20.0	0.100	-32.2	50.0
1,2,3-Trimethylbenzene	Ave	2.525	2.155		0.00853	0.0100	-14.7	50.0

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton   Job No.: 240-27038-1

SDG No.:

Lab File ID: UXR6575.D   Lab Sample ID: MB 240-94801/6

Matrix: Water   Heated Purge:(Y/N) N

Instrument ID: A3UX17   Date Analyzed: 07/24/2013 13:03

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 240-94801/4	UXR6573.D	07/24/2013 12:18
TB-071813	240-27038-41	UXR6576.D	07/24/2013 13:25

FORM IV 8260B

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-27038-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-94801/6

Matrix: Water Lab File ID: UXR6575.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 07/24/2013 13:03

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.: 94801 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	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
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
78-93-3	2-Butanone	5.0	U	5.0	0.57
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	5.0	U	5.0	0.41
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
67-64-1	Acetone	6.33		5.0	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
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-27038-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-94801/6

Matrix: Water Lab File ID: UXR6575.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 07/24/2013 13:03

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.: 94801 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
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
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
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	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.17
75-09-2	Methylene Chloride	1.85		1.0	0.33
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
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
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
75-65-0	tert-Butyl alcohol	20	U	20	3.9
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	0.50	U	0.50	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton   Job No.: 240-27038-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-94801/6

Matrix: Water   Lab File ID: UXR6575.D

Analysis Method: 8260B   Date Collected:

Sample wt/vol: 5(mL)   Date Analyzed: 07/24/2013 13:03

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.: 94801   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)	88		63-129
460-00-4	4-Bromofluorobenzene (Surr)	73		66-117
1868-53-7	Dibromofluoromethane (Surr)	95		75-121
2037-26-5	Toluene-d8 (Surr)	77		74-115

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton   Job No.: 240-27038-1

SDG No.:

Matrix: Water   Level: Low   Lab File ID: UXR6573.D

Lab ID: LCS 240-94801/4   Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	10.0	9.35	93	72-116	
1,1,1-Trichloroethane	10.0	9.51	95	74-118	
1,1,2,2-Tetrachloroethane	10.0	7.78	78	68-118	
1,1,2-Trichloro-1,2,2-trichfluoroethane	10.0	10.9	109	74-151	
1,1-Dichloroethane	10.0	9.69	97	82-115	
1,1-Dichloroethene	10.0	9.90	99	78-131	
1,1-Dichloropropene	10.0	9.49	95	83-114	
1,2,3-Trichlorobenzene	10.0	4.48	45	54-126	*
1,2,3-Trichloropropane	10.0	8.03	80	73-129	
1,2,3-Trimethylbenzene	10.0	8.61	86	70-130	
1,2,4-Trichlorobenzene	10.0	5.50	55	48-135	
1,2,4-Trimethylbenzene	10.0	9.03	90	76-120	
1,2-Dibromo-3-Chloropropane	10.0	6.32	63	42-136	
1,2-Dibromoethane	10.0	9.20	92	79-113	
1,2-Dichlorobenzene	10.0	8.45	85	81-110	
1,2-Dichloroethane	10.0	9.56	96	71-127	
1,2-Dichloropropane	10.0	9.58	96	81-115	
1,3-Dichlorobenzene	10.0	8.77	88	80-110	
1,3-Dichloropropane	10.0	8.76	88	79-116	
1,4-Dichlorobenzene	10.0	8.63	86	82-110	
2,2-Dichloropropane	10.0	9.26	93	50-129	
2-Butanone	20.0	17.2	86	60-126	
2-Chloroethyl vinyl ether	10.0	7.66 J	77	52-131	
2-Chlorotoluene	10.0	9.03	90	76-116	
2-Hexanone	20.0	15.0	75	55-133	
4-Chlorotoluene	10.0	9.07	91	77-115	
4-Methyl-2-pentanone	20.0	16.6	83	63-128	
Acetone	20.0	23.6	118	43-136	
Benzene	10.0	10.1	101	83-112	
Bromobenzene	10.0	8.72	87	76-115	
Bromochloromethane	10.0	10.2	102	77-120	
Bromodichloromethane	10.0	9.75	97	72-121	
Bromoform	10.0	8.99	90	40-131	
Bromomethane	10.0	10.3	103	11-185	
Carbon disulfide	10.0	9.94	99	62-142	
Carbon tetrachloride	10.0	9.50	95	66-128	
Chlorobenzene	10.0	9.21	92	85-110	
Chloroethane	10.0	10.2	102	25-153	
Chloroform	10.0	9.52	95	79-117	
Chloromethane	10.0	8.30	83	44-126	
cis-1,2-Dichloroethene	10.0	10.2	102	80-113	

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.: 240-27038-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXR6573.D

Lab ID: LCS 240-94801/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
cis-1,3-Dichloropropene	10.0	9.26	93	61-115	
Dibromochloromethane	10.0	8.79	88	64-119	
Dibromomethane	10.0	10.4	104	81-120	
Dichlorodifluoromethane	10.0	8.89	89	19-129	
Diisopropyl ether	10.0	9.58	96	77-118	
Ethylbenzene	10.0	9.29	93	83-112	
Hexachlorobutadiene	10.0	6.04	60	36-134	
Isopropylbenzene	10.0	9.25	93	75-114	
Methyl tert-butyl ether	10.0	8.91	89	52-144	
Methylene Chloride	10.0	12.1	121	66-131	
m-Xylene & p-Xylene	20.0	19.5	97	83-113	
Naphthalene	10.0	4.12	41	32-141	
n-Butylbenzene	10.0	8.43	84	66-125	
n-Propylbenzene	10.0	9.33	93	74-121	
o-Xylene	10.0	9.37	94	83-113	
p-Isopropyltoluene	10.0	9.18	92	74-120	
sec-Butylbenzene	10.0	8.55	86	70-117	
Styrene	10.0	9.80	98	79-114	
tert-Butyl alcohol	200	183	92	70-130	
tert-Butylbenzene	10.0	8.32	83	71-115	
Tetrachloroethene	10.0	9.37	94	79-114	
Toluene	10.0	9.34	93	84-111	
trans-1,2-Dichloroethene	10.0	9.78	98	83-117	
trans-1,3-Dichloropropene	10.0	7.51	75	58-117	
Trichloroethene	10.0	10.2	102	76-117	
Trichlorofluoromethane	10.0	9.39	94	49-157	
Vinyl acetate	10.0	8.26	83	46-161	
Vinyl chloride	10.0	8.86	89	53-127	
Xylenes, Total	30.0	28.9	96	83-112	

Column to be used to flag recovery and RPD values

FORM III 8260B

Report Date: 24-Jul-2013 07:58:45 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A3UX9\20130722-21835.b\UX938155.D		
Lims ID:	CCVIS L4 8260	Client ID:	
Inject. Date:	22-Jul-2013 17:39:30	Dil. Factor:	1.0000
Sample Type:	CCVIS		
Sample ID:	240-0021835-003		
Misc. Info.:			
Operator:	1904	Instrument ID:	A3UX9
Purge Vol:	5.000 mL	ALS Bottle#:	2
Lims Batch ID:	94518	Lims Sample ID:	3
Sublist:	chrom-8260_9*sub25		
Detector:	MS SCAN		
Method:	\\Ncchrom\ChromData\A3UX9\20130722-21835.b\8260_9.m		
Last Update:	24-Jul-2013 07:58:45	Calib Date:	19-Jul-2013 02:17:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A3UX9\20130718-21750.b\UX938122.D		
Limit Group:	MSV 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	DB-624	Column Dia:	0.18 mm
Process Host:	XAWRK025		
First Level Reviewer: laveyt		Date:	22-Jul-2013 18:29:47

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 2 TBA-d9 (IS)	65	3.319	3.319	0.0	99	2386332	1000.0	
* 3 Fluorobenzene	96	5.306	5.306	0.0	98	3559211	50.0	
* 1 Dioxane-d8 (IS)	96	5.863	5.863	0.0	66	189490	1000.0	
* 4 Chlorobenzene-d5	117	7.957	7.957	0.0	91	2694719	50.0	
* 5 1,4-Dichlorobenzene-d4	152	10.193	10.193	0.0	94	1381471	50.0	
$ 7 Dibromofluoromethane (Surr)	113	4.738	4.738	0.0	56	302793	20.0	
$ 8 1,2-Dichloroethane-d4 (Surr)	65	5.022	5.022	0.0	94	508626	18.4	
$ 9 Toluene-d8 (Surr)	98	6.655	6.655	0.0	95	1283316	19.7	
$ 10 4-Bromofluorobenzene (Surr)	95	9.069	9.069	0.0	89	527844	20.2	
18 Dichlorodifluoromethane	85	1.662	1.662	0.0	97	489399	23.8	
19 Chloromethane	50	1.804	1.804	0.0	89	762340	19.6	
20 Vinyl chloride	62	1.910	1.910	0.0	97	797761	20.2	
22 Bromomethane	94	2.218	2.218	0.0	90	231329	20.9	
23 Chloroethane	64	2.313	2.313	0.0	98	453380	21.6	
24 Dichlorofluoromethane	67	2.455	2.455	0.0	94	831695	21.6	
25 Trichlorofluoromethane	101	2.514	2.514	0.0	93	600451	23.5	
26 Ethyl ether	59	2.715	2.715	0.0	89	537554	16.7	
29 Acrolein	56	2.833	2.833	0.0	88	198070	61.2	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.952	2.952	0.0	43	314219	21.6	
32 Acetone	43	2.952	2.952	0.0	34	293769	34.0	
31 1,1-Dichloroethene	61	2.952	2.952	0.0	79	1093508	18.8	
33 Iodomethane	142	3.106	3.106	0.0	97	542435	19.1	
34 Carbon disulfide	76	3.165	3.165	0.0	97	1302251	21.2	
37 Methyl acetate	43	3.224	3.224	0.0	99	1802067	84.6	
36 3-Chloro-1-propene	41	3.295	3.295	0.0	68	368882	20.0	
38 Methylene Chloride	49	3.366	3.366	0.0	89	917801	19.3	
39 2-Methyl-2-propanol	59	3.390	3.390	0.0	90	596397	180.8 (200)	
40 Acrylonitrile	53	3.508	3.508	0.0	100	2510154	172.9	
41 Methyl tert-butyl ether	73	3.532	3.532	0.0	90	1054172	19.3	

CH3
C-C-C
OH

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
42 trans-1,2-Dichloroethene	61	3.579	3.579	0.0	84	846419	19.3	
43 Hexane	57	3.756	3.756	0.0	83	537926	17.3	
44 1,1-Dichloroethane	63	3.887	3.887	0.0	99	736421	15.8	
45 Vinyl acetate	86	3.910	3.910	0.0	100	71224	14.3	
50 cis-1,2-Dichloroethene	61	4.360	4.360	0.0	90	802529	18.9	
49 2-Butanone (MEK)	43	4.360	4.360	0.0	64	411135	31.7	
51 2,2-Dichloropropane	77	4.360	4.360	0.0	47	227335	18.1	
55 Chlorobromomethane	49	4.549	4.549	0.0	86	432538	17.9	
56 Tetrahydrofuran	42	4.597	4.597	0.0	92	282108	34.1	
57 Chloroform	83	4.608	4.608	0.0	89	592989	19.4	
58 1,1,1-Trichloroethane	97	4.774	4.774	0.0	83	381029	20.5	
59 Cyclohexane	56	4.833	4.833	0.0	82	866187	19.5	
60 1,1-Dichloropropene	75	4.904	4.904	0.0	88	414169	18.7	
61 Carbon tetrachloride	117	4.916	4.916	0.0	83	373521	22.9	
62 Isobutyl alcohol	41	4.951	4.951	0.0	89	376584	454.4	
63 Benzene	78	5.082	5.082	0.0	95	1453033	19.6	
64 1,2-Dichloroethane	62	5.082	5.082	0.0	95	707296	18.3	
66 n-Heptane	57	5.271	5.271	0.0	87	473126	16.3	
69 Trichloroethene	130	5.614	5.614	0.0	91	336325	20.1	
70 Methylcyclohexane	55	5.780	5.780	0.0	90	527069	19.7	
71 1,2-Dichloropropane	63	5.803	5.803	0.0	89	509050	17.4	
74 Dibromomethane	174	5.910	5.910	0.0	89	227138	19.1	
73 1,4-Dioxane	88	5.910	5.910	0.0	35	95124	446.4	
75 Dichlorobromomethane	83	6.028	6.028	0.0	90	460566	18.6	
77 2-Chloroethyl vinyl ether	63	6.265	6.265	0.0	88	730782	36.6	
79 cis-1,3-Dichloropropene	75	6.407	6.407	0.0	88	565528	19.3	
80 4-Methyl-2-pentanone (MIBK)	43	6.525	6.525	0.0	92	895377	33.8	
81 Toluene	91	6.715	6.715	0.0	97	1493562	18.9	
82 trans-1,3-Dichloropropene	75	6.892	6.892	0.0	98	501869	18.3	
83 Ethyl methacrylate	69	6.951	6.951	0.0	90	480506	17.8	
84 1,1,2-Trichloroethane	97	7.058	7.058	0.0	92	337185	20.0	
85 Tetrachloroethene	166	7.200	7.200	0.0	93	303304	19.5	
86 1,3-Dichloropropane	76	7.212	7.212	0.0	95	596202	19.1	
88 2-Hexanone	43	7.271	7.271	0.0	87	615583	30.2	
90 Chlorodibromomethane	129	7.425	7.425	0.0	89	317558	17.7	
91 Ethylene Dibromide	107	7.543	7.543	0.0	96	332786	18.3	
93 Chlorobenzene	112	7.981	7.981	0.0	89	955700	18.2	
94 1,1,1,2-Tetrachloroethane	131	8.052	8.052	0.0	83	313262	19.0	
95 Ethylbenzene	106	8.075	8.075	0.0	99	485941	18.8	
96 m-Xylene & p-Xylene	106	8.182	8.182	0.0	98	593460	18.9	
97 o-Xylene	106	8.560	8.560	0.0	89	602239	19.7	
98 Styrene	104	8.572	8.572	0.0	88	1099135	19.6	
99 Bromoform	173	8.762	8.762	0.0	95	235522	18.0	
100 Isopropylbenzene	105	8.915	8.915	0.0	96	1407567	20.1	
102 1,1,2,2-Tetrachloroethane	83	9.188	9.188	0.0	95	492412	18.8	
103 Bromobenzene	156	9.223	9.223	0.0	91	432621	18.7	
105 1,2,3-Trichloropropane	110	9.235	9.235	0.0	78	162985	19.0	
104 trans-1,4-Dichloro-2-butene	53	9.247	9.247	0.0	70	268469	19.7	
106 N-Propylbenzene	120	9.306	9.306	0.0	96	368303	18.7	
108 2-Chlorotoluene	126	9.401	9.401	0.0	94	340209	18.4	
109 1,3,5-Trimethylbenzene	105	9.472	9.472	0.0	86	1137215	19.4	
110 4-Chlorotoluene	126	9.507	9.507	0.0	99	366591	18.8	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
112 tert-Butylbenzene	119	9.803	9.803	0.0	82	927039	19.2	
113 1,2,4-Trimethylbenzene	105	9.838	9.838	0.0	86	1259840	19.4	
114 sec-Butylbenzene	105	10.016	10.016	0.0	94	1333862	19.6	
115 1,3-Dichlorobenzene	146	10.134	10.134	0.0	88	752917	17.9	
116 4-Isopropyltoluene	119	10.146	10.146	0.0	97	1180455	19.4	
117 1,4-Dichlorobenzene	146	10.217	10.217	0.0	90	799866	18.3	
120 n-Butylbenzene	91	10.560	10.560	0.0	94	1039741	19.2	
121 1,2-Dichlorobenzene	146	10.584	10.584	0.0	94	769996	18.8	
122 1,2-Dibromo-3-Chloropropane	157	11.365	11.365	0.0	78	104616	18.8	
124 1,2,4-Trichlorobenzene	180	12.181	12.181	0.0	93	442550	19.4	
125 Hexachlorobutadiene	225	12.359	12.359	0.0	92	169455	18.0	
126 Naphthalene	128	12.442	12.442	0.0	97	1338881	19.4	
127 1,2,3-Trichlorobenzene	180	12.690	12.690	0.0	95	408922	17.5	
S 129 1,2-Dichloroethene, Total	96				0		38.2	
S 130 1,3-Dichloropropene, Total	75				0		37.6	
S 131 Trihalomethanes, Total	83				0		73.7	
S 132 Xylenes, Total	106				0		38.6	

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-27038-1

SDG No.:

Lab Sample ID: CCV 240-94518/4 Calibration Date: 07/22/2013 18:31

Instrument ID: A3UX9 Calib Start Date: 07/18/2013 00:29

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/18/2013 02:39

Lab File ID: UX938157.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
Acetonitrile	Lin1		0.0310		20.0	0.200	-34.8	50.0
Diisopropyl ether	Ave	0.2436	0.2205		10.0	0.0200	-9.5	50.0
2-Chloro-1,3-butadiene	Ave	0.6449	0.6120		2.00	0.0200	-5.1	50.0
Ethyl-t-butyl ether (ETBE)	Ave	1.484	1.353		5.00	0.0200	-8.8	50.0
Ethyl acetate	Ave	0.3693	0.3127		4.00	0.0400	-15.3	50.0
Propionitrile	Ave	0.0733	0.0669		4.00	0.200	-8.8	50.0
Methacrylonitrile	Ave	0.2293	0.2085		2.00	0.200	-9.1	50.0
Tert-amyl-methyl ether (TAME)	Ave	0.8097	0.7361		5.00	0.0200	-9.1	50.0
n-Butanol	Ave	0.4580	359.8		50.0	0.500	78449.* 2	50.0
Ethyl acrylate	Ave	0.6401	0.5500		1.00	0.0200	-14.1	50.0
Methyl methacrylate	Ave	0.3396	0.2874		2.00	0.0400	-15.4	50.0
2-Nitropropane	Ave	0.0999	0.0706		2.00	0.0400	-29.3	50.0
Cyclohexanone	Ave	0.0538	0.0433		20.0	0.200	-19.5	50.0
Pentachloroethane	Ave	0.4016	0.3848		0.0383	0.0400	-4.2	50.0
1,2,3-Trimethylbenzene	Ave	2.593	2.383		0.0184	0.0200	-8.1	50.0
Benzyl chloride	Ave	0.3828	0.3447		1.00	0.0200	-10.0	50.0
1,3,5-Trichlorobenzene	Ave	0.9729	0.8342		1.00	0.0200	-14.3	50.0
2-Methylnaphthalene	Ave	1.421	1.280		5.00	0.0400	-9.9	50.0

FORM VII 8260B

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-27038-1

SDG No.:

Lab Sample ID: CCV 240-94518/4 Calibration Date: 07/22/2013 18:31

Instrument ID: A3UX9 Calib Start Date: 07/19/2013 00:07

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/19/2013 02:17

Lab File ID: UX938157.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-Chlorohexane	Ave	0.3780	0.3612		1.00	0.0200	-4.4	50.0

FORM VII 8260B

APPENDIX C—CHEMICAL RESULTS DATA TABLE