

2012 Surface Water Sampling Report Middle River Complex 2323 Eastern Boulevard Middle River, Maryland

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ACRONYMS

| | |
|-----------------|---|
| AWQC | Ambient Water Quality Criteria |
| BTAG | Biological Technical Advisory Group |
| °C | degrees Celsius |
| COC | chain of custody |
| DO | dissolved oxygen |
| ESA | environmental site assessment |
| GIS | geographic information system |
| GLM | Glenn L. Martin Company |
| HHRA | human health risk assessment |
| IDW | investigation-derived waste |
| Lockheed Martin | Lockheed Martin Corporation |
| MDE | Maryland Department of the Environment |
| µg/L | microgram(s) per liter |
| mg/L | milligram(s) per liter |
| MRC | Middle River Complex |
| mS/cm | milliSiemen(s) per centimeter |
| mv | millivolt(s) |
| NRWQC | National Recommended Water Quality Criteria |
| NTU | nephelometric turbidity units |
| ORP | oxidation-reduction potential |
| PDF | portable document format |
| PM | project manager |
| REC | recognized environmental condition |
| SC | specific conductivity |
| S.U. | standard unit(s) |
| Tetra Tech | Tetra Tech, Inc. |
| TCE | trichloroethene |
| USEPA | United States Environmental Protection Agency |
| VOC | volatile organic compound |

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Section 1

Introduction

On behalf of Lockheed Martin Corporation (Lockheed Martin), Tetra Tech, Inc. (Tetra Tech) has prepared this *2012 Surface Water Monitoring Report* for the Lockheed Martin Middle River Complex (MRC) in Middle River, Maryland (see Figure 1-1). This report addresses the 2012 surface water sampling along five transects in Dark Head Cove at Outfalls 5, 6, 7, 8, and 9 and at two locations in Cow Pen Creek near the western trichloroethene (TCE) plume. Two of the Dark Head Cove transects (Outfalls 6 and 8) are downgradient of the eastern trichloroethene plume. The sampling objective was to provide additional and updated surface water quality data in Dark Head Cove and Cow Pen Creek to determine whether volatile organic compounds (VOCs) in groundwater at the site are impacting Dark Head Cove and Cow Pen Creek surface water. These chemicals may be conveyed by groundwater seepage into surface water, or by groundwater infiltration into drains and outfalls that discharge to surface water.

This report is organized as follows:

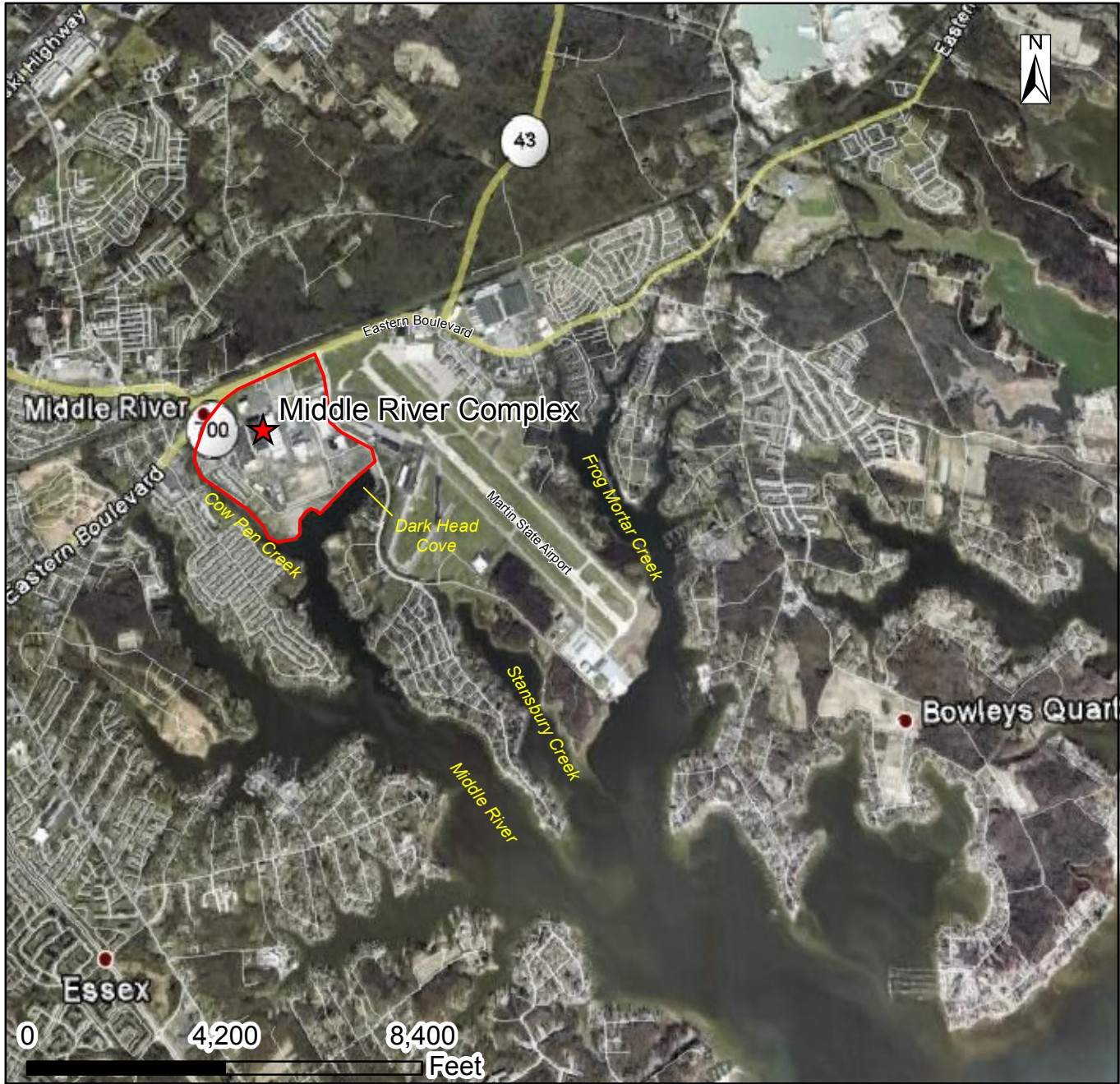
Section 2—Site Background: Briefly describes the site and where detailed background information and reports of previous investigations can be found.

Section 3—Investigation Approach and Methodology: Presents the technical approach to surface water sampling and describes the field methodology employed.

Section 4—Results: Presents the field program's investigation results.

Section 5—Summary: Summarizes the investigation approach and findings.

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



Source: Google Earth Pro, 2008

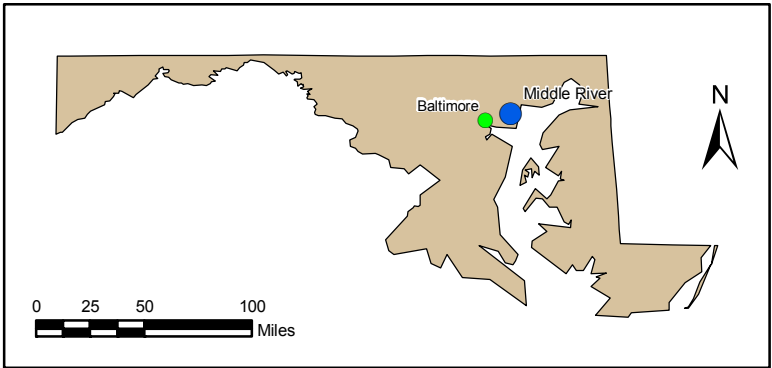


FIGURE 1-1

**MIDDLE RIVER COMPLEX
LOCATION MAP**

*Lockheed Martin Middle River Complex
Middle River, Maryland*

DATE MODIFIED:

4/28/11

CREATED BY:

MP



TETRA TECH

Section 2

Site Background

The Middle River Complex (MRC), part of the Chesapeake Industrial Park, is at 2323 Eastern Boulevard in Middle River, Maryland, approximately 11.5 miles northeast of downtown Baltimore. The MRC comprises approximately 161 acres, including 12 main buildings, an active industrial area and yard, perimeter parking lots, an athletic field, a vacant concrete lot, a trailer and parts storage lot, and numerous grassy spaces along its perimeter. The MRC is bounded by Eastern Boulevard (Route 150) to the north, Martin State Airport to the east, Dark Head Cove to the south, and Cow Pen Creek to the west. Figure 2-1 shows the MRC layout.

Currently, MRC property owner LMC Properties, Inc.'s, primary activities at the MRC include facility and building management and maintenance. The main tenant at the site, MRA Systems, Inc. (a subsidiary of General Electric Company) designs, manufactures, fabricates, tests, overhauls, repairs, and maintains aeronautical structures, parts, and components for military and commercial applications. Lockheed Martin Mission Systems & Sensors—Littoral Ships & Systems (a Lockheed Martin Corporation [Lockheed Martin] business segment) conducts engineering and fabricates, assembles, tests, and otherwise supports vertical-launch systems. A Lockheed Martin subsidiary, Applied NanoStructured Solutions LLC, also occupies a portion of MRC, engaging in research and design of nanotechnology applications.

In 1929, the Glenn L. Martin Company (GLM), a predecessor entity of Lockheed Martin, acquired a large parcel of undeveloped land in Middle River, Maryland to manufacture aircraft for U.S. government and commercial clients. In the early 1960s, GLM merged with American-Marietta Company to form Martin Marietta Corporation. Around 1975, the adjacent eastern airport area (currently Martin State Airport), approximately 750 acres, was transferred to the State of Maryland. In the mid-1990s, Martin Marietta Corporation merged with Lockheed to form Lockheed Martin Corporation. Shortly after the merger, General Electric Company acquired most of Lockheed Martin's aeronautical business in Middle River and a General Electric subsidiary, MRA Systems, Inc., began operations.

Numerous environmental investigations have been conducted at the Lockheed Martin MRC. These include underground storage-tank closures and abandonments, soil excavations, Phase I environmental site assessments (ESAs), and Phase II ESAs. A facility-wide Phase I ESA was conducted at the Lockheed Martin MRC in 2003. It identified 13 recognized environmental conditions (RECs) at the facility associated primarily with then-current site conditions (Earth Tech, 2003). Subsequent review of historical site activities identified another 18 RECs at the facility (Tetra Tech, 2004).

Many of these RECs are in the southern portion of the facility along the waterfront. Soil and groundwater sampling at the RECs has identified sporadic soil and groundwater contamination in environmental media underlying the facility. The MRC has entered into the Maryland Department of the Environment (MDE) Voluntary Cleanup Program, and studies of soil and groundwater at the MRC are ongoing (Tetra Tech, 2012a).

With respect to previous surface water and sediment studies, surface water and sediment were sampled in Cow Pen Creek and Dark Head Cove adjacent to the facility's southern and western property boundaries on March 17–18, 2005. Ten additional surface water and 50 additional sediment samples were later collected in October 2005 to further characterize and delineate chemicals identified during the March sampling event. The October event included much more extensive investigation of Dark Head Cove, as well as vertical profiling of chemical concentrations in sediments.

In March 2005, seven surface-water samples (SW-1 through SW-7) and 12 sediment samples (SD-1 through SD-12) were collected from Cow Pen Creek and Dark Head Cove. Two (SW/SD-1 and SW/SD-2) were collected as background reference-samples; SW/SD-1 was collected hydraulically upgradient of the facility's first outfall (along Cow Pen Creek), and SW/SD-2 was collected from a cove within Dark Head Creek. The remaining sampling locations are along the facility waterfront approximately 10 feet from the shoreline and spaced to generally coincide with outfall locations.

In October 2005, 10 surface water samples (SW-8 through SW-17) and 50 sediment samples from 30 locations (SD-13 through SD-42) were collected from Cow Pen Creek and Dark Head Cove. Surface water sampling locations were distributed to provide sufficient data to broadly

evaluate surface water quality. Sediment sampling locations were chosen to evaluate the horizontal distribution of chemicals of concern previously identified in March 2005.

The 2006 human health risk assessment (HHRA), based on data from the 2005 sampling events, concluded that noncarcinogenic effects for both surface water and sediment are regulatorily acceptable because the hazard index calculated for a hypothetical recreational receptor is less than 1.0. Carcinogenic risks of exposures to surface water (incidental ingestion, dermal contact) are less than the MDE threshold limit of 1×10^{-05} , or a one-in-100,000 probability of developing cancer (Tetra Tech, 2006). Carcinogenic risks for exposures to sediment exceed this MDE threshold for carcinogenic effects; however, the estimated risks are within the United States Environmental Protection Agency (USEPA) acceptance range of 1×10^{-04} to 1×10^{-06} , or a one-in-10,000 to one-in-one-million probability of developing cancer.

The 2006 HHRA evaluated incidental ingestion and dermal contact with surface waters and sediments as direct-contact exposure pathways. Risks associated with consumption of fish from the study area are not evaluated in the 2006 HHRA. The 2006 ecological risk assessment (likewise based on the 2005 data) identifies cadmium in surface water and barium, silver, benzo(a)pyrene, benzo(g,h,i)perylene, and indeno(1,2,3-cd)pyrene as the primary chemicals of potential concern in sediment. Food-chain modeling also identified mercury in sediment as a concern (Tetra Tech, 2006).



FIGURE 2-1

MIDDLE RIVER COMPLEX
SITE LAYOUT AND TAX BLOCKS

LEGEND

- MIDDLE RIVER COMPLEX TAX BLOCK BOUNDARY
- STRUCTURE
- RAILROAD TRACKS

Lockheed Martin Middle River Complex
Middle River, Maryland

0 150 300 600 Feet

DATE MODIFIED:

11/30/11

CREATED BY: MP



Section 3

Investigation Approach and Methodology

3.1 SURFACE WATER SAMPLING

As stated in Section 1, the overall objective of the 2012 surface water sampling was to provide additional and updated surface water quality data for Dark Head Cove and Cow Pen Creek and to determine whether volatile organic compounds (VOCs) in groundwater at the site are impacting Dark Head Cove and Cow Pen Creek surface water. While polychlorinated biphenyls (PCBs) are known to be present in soil and sediment, prior sampling indicated they are not a concern for surface water; therefore no sampling for PCBs occurred in 2012. As shown in Table 3-1 and Figure 3-1, 13 surface water samples were collected from Dark Head Cove and Cow Pen Creek on June 13, 2012. Eleven of these were collected in Dark Head Cove and two were collected in Cow Pen Creek. For this round, samples were analyzed for VOCs only, which are the primary contaminants of concern in MRC groundwater. Sampling was conducted in accordance with the 2012 Middle River Complex (MRC) surface water sampling work plan (Tetra Tech, Inc. [Tetra Tech], 2012b).

3.1.1 Surface Water Sampling and Analyses

As shown in Figure 3-1, surface water samples were collected in Dark Head Cove along transects at Outfalls 5 through 9. Two samples were collected along each transect near Outfalls 6 through 9: one sample per transect was collected 10-feet from shore (A sample) and a second was collected 50-feet from shore (B sample). At Outfall 5 (which has two outlets), one sample was collected from each outlet 10-feet from shore (A1 and A2 samples) and one was collected 50-feet from shore (B sample), approximately midway between the two outlets. Surface water samples were collected in Cow Pen Creek near the location of the western trichloroethene (TCE) plume. Samples were collected along the approximate centerline of the creek upstream and downstream of the estimated boundaries of the western TCE plume. Table 3-1 summarizes the

surface water sampling locations and chemical analyses conducted for the 2012 monitoring program (Tetra Tech, 2012b).

Surface water samples were collected as grab samples using direct-fill sampling techniques. All samples were collected approximately one foot below the water surface using a stainless-steel discrete-interval sampler (i.e., “Bacon Bomb” sampler). The sampler was lowered to approximately one foot below the water surface, the check valve was engaged to allow it 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 (mL) sample vials. The discrete-interval sampler was cleaned after each use by rinsing with potable water. Equipment was cleaned after each sample had been collected. No decontamination fluids other than potable water were used, so it was not necessary to collect and dispose of rinse water generated during this sampling event.

Samples were analyzed for VOCs at a fixed-base laboratory via Method 8260B. No duplicates were collected during this investigation. All samples were shipped in a single container, so only one trip blank was included for VOC analysis for quality assurance/quality control purposes. Water-quality parameters, including temperature, pH (a measure of hydrogen-ion content indicating relative acidity or alkalinity), specific conductance (SC), salinity, turbidity, dissolved oxygen (DO), color, and oxidation-reduction potential (ORP), were measured at all surface water sampling locations at the time of sampling. In addition, the depth of water at the sampling location at the time of sampling was recorded.

Tidal stages were recorded at the beginning, middle, and end of sampling using the Cow Pen Creek direct-read staff gauge. Readings from the staff gauge were 3.6 feet at 9:55 a.m., 3.5 feet at 10:15 a.m., and 3.0 feet at 10:45 a.m., indicating the samples were collected during the falling limb of a tidal cycle. Tide data for Bowley Bar in Middle River, Maryland for June 13, 2012 shows low tide at 10:41 a.m.; high tide was at 3:53 a.m. (Maryland Department of Natural Resources, 2012). All information was documented on surface water sample forms (Appendix A) and in the master site logbook.

Surface water sampling locations (horizontal locational coordinates) were surveyed using a handheld global positioning system receiver and recorded in the field logbook. Sampling locations were recorded in degrees, minutes, and seconds using geographical latitude and

longitude coordinates. The coordinates have an accuracy of approximately 15 feet. The coordinates were converted to the Maryland State Plane North American Datum 1983 (feet) for use in the MRC geographical information system (GIS).

3.1.2 Documentation

A master site logbook was maintained as an overall record of field activities. Sample documentation includes completed chain of custody (COC) forms and matrix-specific sampling 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, requested analysis, and the times and dates of custody transfers. Sample custody procedures document sample acquisition and integrity.

3.1.3 Sample Nomenclature and Handling

Surface water samples were identified with a unique sample identification tag. Surface water samples were labeled with an “SW” prefix followed by the sample number, followed by an “A” (designating a sample 10 feet from the shoreline) or a “B” (designating a sample collected 50 feet from the shoreline), followed by a six-digit sampling date. For example, a surface water sample collected on June 13, 2012 from transect MRC-SW6 at the 10-foot (“A”) location was labeled as MRC-SW6A-061312. The trip blank was labeled with a “TB” prefix followed by the blank’s six-digit submittal date (e.g., TB-061312).

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 used throughout sample handling assure the evidentiary integrity of sample containers.

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

3.1.4 Equipment Decontamination

Both dedicated and disposable equipment were used for surface water sampling to minimize decontamination. The stainless steel Bacon Bomb discrete interval sampler was rinsed with potable water before and after each use.

3.1.5 Waste Management

No investigation-derived waste (IDW) was generated during this surface water sampling. General waste (i.e., gloves, rope, etc.) was disposed of in the proper waste disposal containers at the facility. The stainless steel Bacon Bomb sampler was cleaned with potable water over the water body; therefore, no IDW was generated during surface water sampling.

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. These files include copies of the COC forms, sampling log forms, sampling location maps, and documentation of quality assurance and data manipulation.

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. This system allows for early detection of errors made in the field so adjustments can be made while the field team is still mobilized. Before field mobilization, the field operations leader coordinated and initiated sample tracking. Sample jar labels were handwritten in the field and reviewed to ensure that they were accurate and adhered to work plan requirements.

The project manager (PM) coordinated with the analytical laboratory to ensure that they were aware of the number and types of samples and analyses being submitted. During field sampling, the field operations leader forwarded the COC forms to the PM (or their designee) and the laboratory for each day that samples were collected. The PM (or their designee) confirmed that the COC forms provided the information required by the work plan. After all requested analyses were complete, the laboratory submitted an electronic deliverable for every sample delivery group. When all electronic deliverables had been received from the laboratory, the PM or their designee ensured that the laboratory had performed all requested analyses.

3.2.2 Sample Information

Data from field measurements were recorded using appropriate log sheets and summarized in tabular form. Raw instrument-data from the laboratory was also tabulated. 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.

3.2.3 Project Data Compilation

The analytical laboratory generated a portable document format (PDF) file of the analytical data packages, as well as electronic database deliverables. The electronic data were checked against the PDF file from 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, are consistent with the project database.

3.2.4 Geographical Information System

Data management systems consist of a relational database and GIS used to manage environmental information pertaining to the MRC. The relational database stores chemical, geological, hydrogeologic, 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 posting of environmental data onto base maps to represent the information graphically. Compiled sampling, chemical, and positional data were 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, consisting of data completeness, holding time, calibrations, laboratory contamination, and detection limits, was completed concurrent with the data evaluation. The review was based on USEPA Region 3's *Modifications to the National Functional Guidelines for Data Review* (USEPA, 1993 and 1994) and the specifics of the analytical method used. Data from this sampling event consist of surface water sample chemical results. Data validation reports and COC are provided as PDF files in Appendix B (on compact disc). Appendix C tabulates all 2012 MRC surface water sample analytical data, including validation qualifiers, non-detects, and analytical detection limits.

The data validation concluded that these MRC data are acceptable for their intended uses (i.e., risk screening and risk assessment), except for data qualified as unreliable. For this validation, the following data qualifiers (i.e., flags) were applied to the chemical results presented in this report:

J The analyte is considered present in the sample. However, the value is estimated and may not meet highest accuracy or precision standards. In this program, samples were qualified with “*J*” because quantitation was above the method detection limit but below the laboratory reporting limit.

U Not detected. The analyte was not detected at the reported value.

UR The result is qualitatively or quantitatively unreliable.

The “*J*” qualifier appears in the chemical results tables (see also Figure 4-1). All three qualifiers appear in the tables in Appendices B and C. Only the results (i.e., non-detected results) for 2-butanone, tertiary butyl-alcohol, and vinyl acetate are flagged with “*UR*” data qualifiers.

Table 3-1
Chemical Analyses for Surface Water Samples—
Dark Head Cove and Cow Pen Creek, June 2012
Lockheed Martin, Middle River Complex, Middle River, Maryland

| Sampling location | Sample number | Distance from shore (feet) | Analytical parameters | Sampling month | Number of samples |
|--|---------------|--|---|----------------|-------------------|
| Dark Head Cove | | | | | |
| Outfall 5 | SW5A1 | 10 ⁽¹⁾ | Volatile organic compounds (VOCs), field parameters | June | 1 |
| | SW5A2 | 10 ⁽¹⁾ | | | 1 |
| | SW5B | 50 | | | 1 |
| Outfall 6 and near the eastern trichloroethene (TCE) plume | SW6A | 10 | VOCs, field parameters | June | 1 |
| | SW6B | 50 | | | 1 |
| Outfall 7 | SW7A | 10 | VOCs, field parameters | June | 1 |
| | SW7B | 50 | | | 1 |
| Outfall 8 and near eastern TCE plume | SW8A | 10 | VOCs, field parameters | June | 1 |
| | SW8B | 50 | | | 1 |
| Outfall 9 | SW9A | 10 | VOCs, field parameters | June | 1 |
| | SW9B | 50 | | | 1 |
| Cow Pen Creek | | | | | |
| Near the western TCE plume | SW1A SW2A | Upstream Downstream (both centerline) | VOCs, field parameters | June | 1 1 |

¹Two near-shore samples (10-feet) were collected at Outfall 5 only. One near-shore sample was collected at each of the other Dark Head Cove outfalls (6 –9)



Section 4

Results

Validated surface water chemical data were used to generate a statistical summary table (Table 4-1) and a detection table (Table 4-2) listing positive detections of chemical analytes for the 2012 surface water samples. Tables 4-1 and 4-2 are based on the full data listing shown in Table C-1 (see Appendix C). Table 4-2 compares surface-water sampling results to several applicable screening criteria, including:

- United States Environmental Protection Agency (USEPA) Region III 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)
- State of 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 swimming screening levels developed by Lockheed Martin Corporation (Lockheed Martin) for current assessments of volatile organic compounds (VOCs) at Frog Mortar Creek near Martin State Airport (Tetra Tech, Inc., [Tetra Tech], 2012c)

As shown in Table 4-1, only two VOCs (trichloroethene [TCE] and acetone) were detected in the 2012 samples. TCE was detected in 10 of 13 samples (77%). It was detected in all but one sample collected in Dark Head Cove and in no samples collected in Cow Pen Creek. TCE is the primary VOC detected in the MRC groundwater plumes. Acetone was only detected in the two samples collected in Cow Pen Creek, for a detection frequency of 15%.

All contaminant concentrations are low. All TCE detects are “J” qualified because concentrations are above the method detection limit but below the laboratory reporting limit. The two acetone concentrations are 3.6 and 4.7 µg/L. Acetone is a common laboratory contaminant; however, data validation found no evidence of laboratory contamination.

The distribution of TCE in the Dark Head Cove samples is shown in Figure 4-1. Detected TCE concentrations range from 0.17 µg/L in the southwestern portion of Dark Head Cove (MRC-SW5A1) to 0.82 µg/L in the central portion of Dark Head Cove (MRC-SW8B). The higher TCE concentrations (ranging from 0.55 to 0.82 µg/L) were detected near Outfalls 6 and 8 (locations MRC-SW8B, MRC-SW8A, MRC-SW6B, and MRC-SW6A). These sampling locations are in the area where the eastern TCE plume discharges to Dark Head Cove. Lower TCE concentrations were detected near Outfalls 5, 7, and 9.

As shown in Figure 4-1, TCE concentrations are higher in the samples collected approximately 50 feet from the shoreline, with lower concentrations in the samples collected approximately 10 feet from the shoreline. TCE concentrations decrease progressively southwest and northeast of transects MRC-SW8 and MRC-SW6. These transects are southeast and hydraulically downgradient of the eastern TCE plume.

USEPA and the State of Maryland have not established acute or chronic freshwater criteria for either TCE or acetone. However, USEPA and Maryland have established a “human health for consumption of organisms” criterion for TCE of 300 µg/L (when adjusted for a risk level of 1×10^{-5}). The BTAG ecological screening levels for TCE and acetone are 21 and 1,500 µg/L, respectively. Concentrations of TCE (maximum 0.82 µg/L) and acetone (maximum 4.7 µg/L) detected in this investigation are at least an order of magnitude lower than the lowest regulatory agency screening levels. The maximum TCE concentration is also an order of magnitude less than the TCE swimming screening criterion of 10 µg/L developed by Lockheed Martin.

Table 4-3 presents the water quality parameters measured in the field for each surface water sample. Data were collected for color, pH, specific conductivity (SC), temperature, turbidity, dissolved oxygen (DO), salinity, and oxidation-reduction potential (ORP). The color of the water is uniformly greenish-brown. The pH varied from 7.35 to 7.72, with an average pH of 7.62. Specific conductivity ranged from 1.30 to 3.93 milliSiemens per centimeter (mS/cm), with an average value of 3.5 mS/cm. The temperature of the water averaged 25.94 degrees Celsius (°C). Turbidity varied from a low of 6.98 nephelometric turbidity units (NTUs) to a high of 87.5 NTUs, with an average value of 15.03 NTUs. DO ranged from 5.56 to 10.5 milligrams per liter (mg/L), with an average of 7.48 mg/L. Salinity varied from 0.7 to 2.1%, with an average of 1.82%. ORP ranged from 163 to 199 millivolts (mv) with an average value of 178.7 mv.

The pH values measured during this event are consistent with natural surface water in this region. SC is closely associated with salinity, and those samples with lower salinity had an expected lower SC, and vice versa. Water temperature was lower in Cow Pen Creek samples, which also had lower salinity and SC as compared to samples collected from Dark Head Cove. These results may be due to either the input of runoff into the creek, or restricted water flow into or out of the creek.

Turbidity was fairly consistent in most samples, but was higher in Cow Pen Creek, possibly due to runoff into the creek. Turbidity was also high in sample SW5A1, which is the southernmost sample collected in Dark Head Cove. The reason for the high turbidity in this sample is unknown.

As expected, DO concentrations in the water are higher in colder water samples. All DO levels are very high, indicating a healthy estuarine environment. ORP values are all positive, which is consistent with an oxygen-rich environment. All of these parameters, except for DO (which is unusually high), are typical of a tidally controlled estuarine environment.

Table 4-1

**Statistical Summary of Analytes Detected in Surface Water Samples - Dark Head Cove and Cow Pen Creek, June 2012
Lockheed Martin Middle River Complex, Middle River, Maryland**

| Chemical | Frequency of Detection ⁽¹⁾ | | Mininum Non Detected | Maximum Non Detected | Mininum Detected | Maximum Detected | Sample With Maximum Concentration | Mean of All Samples | Mean of Positive Detects | Standard Deviation |
|------------------|---------------------------------------|---------|----------------------------|-------------------------|---------------------|---------------------|--------------------------------------|------------------------|--------------------------------|-----------------------|
| | Number | Percent | | | | | | | | |
| VOLATILES (ug/L) | | | | | | | | | | |
| TRICHLOROETHENE | 10/13 | 77% | 0.17 | 0.17 | 0.17 J | 0.82 J | MRC-SW8B-061312 | 0.34 | 0.42 | 0.25 |
| ACETONE | 2/13 | 15% | 1.1 | 1.1 | 3.6 J | 4.7 J | MRC-SW2A-061312 | 1.10 | 4.15 | 1.37 |

1 Analytes are ranked from highest to lowest by percent frequency of detection.

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration.

1/2 the detection limit was used for B qualified data.

ug/L = micrograms per liter

Associated Samples

MRC-SW1A-061312 MRC-SW7A-061312

MRC-SW2A-061312 MRC-SW7B-061312

MRC-SW5A1-061312 MRC-SW8A-061312

MRC-SW5A2-061312 MRC-SW8B-061312

MRC-SW5B-061312 MRC-SW9A-061312

MRC-SW6A-061312 MRC-SW9B-061312

MRC-SW6B-061312

Table 4-2

Volatile Organic Compounds Detected in Surface Water Samples - Dark Head Cove and Cow Pen Creek, June 2012
Lockheed Martin Middle River Complex, Middle River, Maryland

| LOCATION SAMPLE ID: SAMPLE DATE MATRIX | National Recommended and Ambient Water Quality Criteria ⁽¹⁾ | | Ecological Surface Water Screening Level ⁽²⁾ | Human Health Consumption of Organism Only ⁽³⁾ | Swimming Screening Levels ⁽⁴⁾ | MRC-SW1A | MRC-SW2A | MRC-SW5A1 | MRC-SW5A2 | MRC-SW5B |
|---|--|---------|--|---|--|-----------------|-----------------|------------------|------------------|-----------------|
| | | | | | | MRC-SW1A-061312 | MRC-SW2A-061312 | MRC-SW5A1-061312 | MRC-SW5A2-061312 | MRC-SW5B-061312 |
| | | | | | | 20120613 | 20120613 | 20120613 | 20120613 | 20120613 |
| | | | | | | SW | SW | SW | SW | SW |
| | Acute | Chronic | | | | | | | | |
| VOLATILES (ug/l) | | | | | | | | | | |
| TRICHLOROETHENE | NA | NA | 21 | 300 ⁽³⁾ | 10 | -- | -- | 0.17 J | 0.19 J | 0.19 J |
| ACETONE | NA | NA | 1500 | NA | NA | 3.6 J | 4.7 J | -- | -- | -- |

| LOCATION SAMPLE ID: SAMPLE DATE MATRIX | National Recommended and Ambient Water Quality Criteria ⁽¹⁾ | | Ecological Surface Water Screening Level ⁽²⁾ | Human Health Consumption of Organism Only ⁽³⁾ | Swimming Screening Levels ⁽⁴⁾ | MRC-SW6A | MRC-SW6B | MRC-SW7A | MRC-SW7B |
|---|--|---------|--|---|--|-----------------|-----------------|-----------------|-----------------|
| | | | | | | MRC-SW6A-061312 | MRC-SW6B-061312 | MRC-SW7A-061312 | MRC-SW7B-061312 |
| | | | | | | 20120613 | 20120613 | 20120613 | 20120613 |
| | | | | | | SW | SW | SW | SW |
| | Acute | Chronic | | | | | | | |
| VOLATILES (ug/l) | | | | | | | | | |
| TRICHLOROETHENE | NA | NA | 21 | 300 ⁽³⁾ | 10 | 0.55 J | 0.63 J | -- | 0.32 J |
| ACETONE | NA | NA | 1500 | NA | NA | -- | -- | -- | -- |

| LOCATION SAMPLE ID: SAMPLE DATE MATRIX | National Recommended and Ambient Water Quality Criteria ⁽¹⁾ | | Ecological Surface Water Screening Level ⁽²⁾ | Human Health Consumption of Organism Only ⁽³⁾ | Swimming Screening Levels ⁽⁴⁾ | MRC-SW8A | MRC-SW8B | MRC-SW9A | MRC-SW9B |
|---|--|---------|--|---|--|-----------------|-----------------|-----------------|-----------------|
| | | | | | | MRC-SW8A-061312 | MRC-SW8B-061312 | MRC-SW9A-061312 | MRC-SW9B-061312 |
| | | | | | | 20120613 | 20120613 | 20120613 | 20120613 |
| | | | | | | SW | SW | SW | SW |
| | Acute | Chronic | | | | | | | |
| VOLATILES (ug/l) | | | | | | | | | |
| TRICHLOROETHENE | NA | NA | 21 | 300 ⁽³⁾ | 10 | 0.66 J | 0.82 J | 0.33 J | 0.34 J |
| ACETONE | NA | NA | 1500 | NA | NA | -- | -- | -- | -- |

Samples were analyzed for volatile organic compounds (VOCs) only.

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 U.S. Environmental Protection Agency Region 3 Biological Technical Advisory Group Freshwater Screening Benchmarks.

3 For carcinogens, criterion is for incremental cancer risk of 1×10^{-5} .

4 Site specific screening levels developed for trichloroethene, cis-1,2-dichloroethene, and vinyl chloride by Lockheed Martin for Frog Mortar Creek studies at Martin State Airport. Values for 1,2-dichloroethene (300 µg/L) and vinyl chloride (0.7 µg/L) are not show because these analytes were not detected in the samples.

µg/l - micrograms per liter.

J = Positive result is considered estimated below the reporting limit.

NA = criterion not available.

SW = surface water

-- - Not detected at the method detection limit.

Table 4-3

**Surface Water Quality Field Measurements—
Dark Head Cove and Cow Pen Creek, June 2012
Lockheed Martin Middle River Complex, Middle River, Maryland**

| Sample No. | Color | pH (S.U.) | SC (mS/cm) | Temperature (°C) | Turbidity (NTU) | DO (mg/L) | Salinity (%) | ORP (mv) |
|------------|-------|-----------|------------|------------------|-----------------|-----------|--------------|----------|
| SW1A | Gr/Br | 7.56 | 1.30 | 23.24 | 11.00 | 10.50 | 0.7 | 198 |
| SW2A | Gr/Br | 7.35 | 2.08 | 24.33 | 16.90 | 9.32 | 1.0 | 171 |
| SW5A1 | Gr/Br | 7.52 | 3.88 | 26.25 | 87.50 | 8.98 | 2.0 | 165 |
| SW5A2 | Gr/Br | 7.60 | 3.93 | 26.41 | 7.70 | 5.88 | 2.1 | 183 |
| SW5B | Gr/Br | 7.69 | 3.91 | 26.20 | 8.50 | 7.53 | 2.1 | 165 |
| SW6A | Gr/Br | 7.67 | 3.89 | 26.29 | 7.76 | 6.60 | 2.0 | 199 |
| SW6B | Gr/Br | 7.69 | 3.88 | 26.49 | 7.61 | 6.45 | 2.0 | 188 |
| SW7A | Gr/Br | 7.62 | 3.39 | 25.81 | 8.14 | 6.27 | 1.7 | 180 |
| SW7B | Gr/Br | 7.65 | 3.74 | 26.25 | 8.33 | 8.62 | 2.0 | 163 |
| SW8A | Gr/Br | 7.62 | 3.84 | 26.43 | 8.96 | 6.33 | 2.0 | 186 |
| SW8B | Gr/Br | 7.69 | 3.88 | 26.38 | 7.40 | 8.89 | 2.0 | 179 |
| SW9A | Gr/Br | 7.64 | 3.88 | 26.56 | 8.64 | 5.56 | 2.0 | 178 |
| SW9B | Gr/Br | 7.72 | 3.88 | 26.53 | 6.98 | 6.27 | 2.0 | 168 |

°C— degrees Celsius

DO— dissolved oxygen

Gr/Br— greenish brown

mg/L— milligram(s) per liter

mS/cm— milliSiemen(s) per centimeter

mv— millivolts

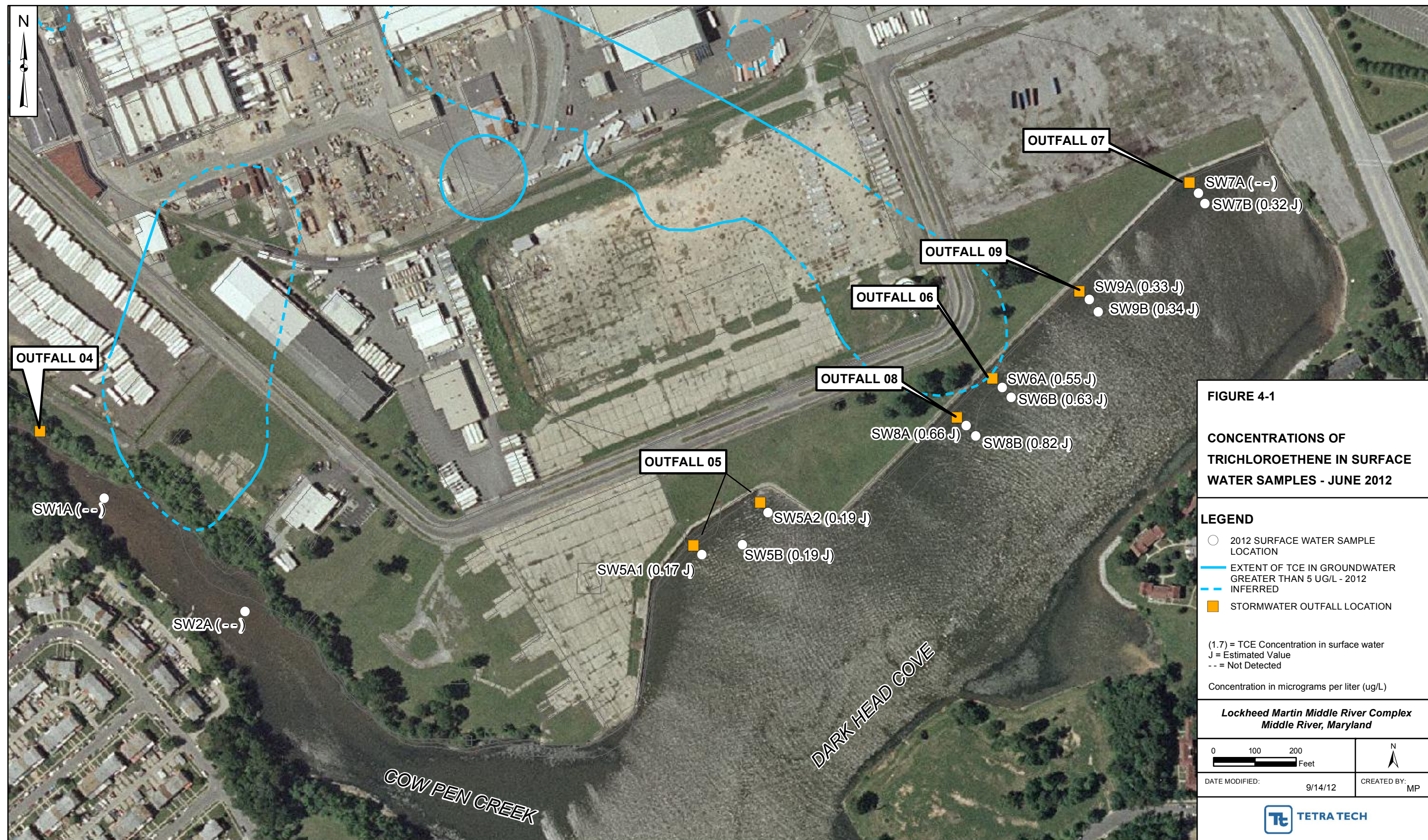
NTU— nephelometric turbidity unit(s)

ORP— oxidation-reduction potential

pH— hydrogen ion content (a measure of acidity or alkalinity)

SC— specific conductance

S.U.— standard unit(s)



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Section 5

Summary

The following summarizes Lockheed Martin Corporation's (Lockheed Martin's) June 2012 Dark Head Cove and Cow Pen Creek surface water investigation and findings:

- Thirteen surface water samples were collected from Dark Head Cove and Cow Pen Creek on June 13, 2012 and chemically analyzed to assess concentrations of volatile organic compounds (VOCs) that may be emanating from storm water outfalls or groundwater plumes. While polychlorinated biphenyls (PCBs) are known to be present in soil and sediment, prior sampling indicated they are not a concern for surface water; therefore no sampling for PCBs occurred in 2012.
- In Dark Head Cove, samples were collected along each of five transects spaced along the northern shoreline. Along four transects, one sample was collected near the shoreline ("A" sample) and a second was collected approximately 50 feet from the shoreline ("B" sample). At Outfall 5 (which has two outlets), samples were collected 10-feet offshore from each outlet, and a third sample was collected 50-feet offshore between the two outlets. Each sample was collected approximately one foot below the water surface.
- Samples were analyzed for volatile organic compounds.
- Chemical data were validated in accordance with the United States Environmental Protection Agency (USEPA) *Region III Modifications to the National Functional Guidelines for Organic Data Review* and the specifics of the analytical methods used.
- Sampling results were screened against the following standards:
 - United States Environmental Protection Agency Region III 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
 - State of Maryland Ambient Water Quality Criteria (AWQC) for acute and chronic aquatic-organism exposures and for human health aquatic-organism consumption
 - Site-specific screening levels developed by Lockheed Martin Corporation for evaluating risks to recreational swimmers from exposure to volatile organic compounds in surface water

-
- The volatile organic compound trichloroethene (TCE) was detected at low concentrations in 10 of 11 surface water samples collected on June 2012 in Dark Head Cove. Trichloroethene was not detected in the two samples collected in Cow Pen Creek.

In Dark Head Cove:

- Concentrations of trichloroethene range from non-detect to 0.82 micrograms per liter. None of the concentrations exceed the ecological surface-water screening level of 21 micrograms per liter, the human health consumption of aquatic-organism screening level of 300 micrograms per liter or the swimming screening level of 10 micrograms per liter. See Table 4-2.
 - Concentrations of trichloroethene are highest at sampling locations MRC-SW8B, MRC-SW8A, MRC-SW6B, and MRC-SW6A, which are associated with Outfalls 6 and 8. These locations in Dark Head Cove are also hydraulically downgradient of the eastern trichloroethene plume, which has the highest trichloroethene concentrations detected in groundwater on site.
 - Trichloroethene concentrations are similar in samples collected approximately 50 feet from the shoreline, and are generally higher than those collected nearer the shoreline.
 - Trichloroethene concentrations are similar but lower in samples collected off Outfalls 5, 7 and 9 than off Outfalls 6 and 8, suggesting good mixing of surface water.
- The volatile organic compound acetone was detected in both samples collected in Cow Pen Creek, at concentrations of 3.6 and 4.7 micrograms per liter.
 - These concentrations are below the ecological surface water screening level of 1,500 micrograms per liter.
- Human health screening levels have not been established for the consumption-of-organisms or for the swimming scenario.

Section 6

References

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10. USEPA (U.S. Environmental Protection Agency), Region 3, 1994. *Region III Modifications to the National Functional Guidelines for Organic-Data Review*. USEPA Region 3 Central Regional Laboratory Quality Assurance Branch. September.
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 12. 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.pdf>

APPENDIX A—SURFACE WATER SAMPLING LOG SHEETS



SURFACE WATER SAMPLE LOG SHEET

Page 1 of 1Project Site Name: MRC Surface Water SamplingProject No.: 112IC04036Sample ID No.: MRC-SW/1A -061312Sample Location: DHC and CPCSampled By: MB/SC/JR

C.O.C. No.: _____

☐ Stream☐ Spring☐ Pond☐ Lake☒ Other: Tidal Creek, Estuarine☐ QA Sample Type: _____

Type of Sample:

☒ Low Concentration☐ High Concentration

SAMPLING DATA:

| | | | | | | | | | |
|---------|-------------|----------|--------|---------|-------|-----------|--------|----------|-------|
| Date: | 6/13/2012 | Color | pH | S.C. | Temp. | Turbidity | DO | Salinity | Other |
| Time: | 0410 | (Visual) | (S.U.) | (mS/cm) | (°C) | (NTU) | (mg/l) | (%) | 208 |
| Depth: | 16" | 62/82 | 7.56 | 1.30 | 23.24 | 72.8/110 | 10.50 | 2.7 | 198 |
| Method: | Direct Fill | | | | | | | | |

SAMPLE COLLECTION INFORMATION:

| Analysis | Preservative | Container Requirements | Collected |
|----------|--------------|------------------------|-----------|
| VOCs | HCl | 40 mL VOA | X |
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OBSERVATIONS / NOTES:

Dark Head Cove and Cow Pen Creek

Top of Gauge height - 3.6 ft @ 0455
 Bottom of Gauge height - 61 in @ 0455

Top of Gauge height - 3.06 ft @ 1045
 Bottom of Gauge height - 58 in @ 1045

MAP:

Circle if Applicable:

MS/MSD

Duplicate ID No.: _____

Signature(s):



SURFACE WATER SAMPLE LOG SHEET

Page 1 of 1

Project Site Name: MRC Surface Water Sampling
 Project No.: 112IC04036

Sample ID No.: MRC-SW 5A1-061312
 Sample Location: DHC and CPC
 Sampled By: MB/SC/JR
 C.O.C. No.: _____

- ☐ Stream
☐ Spring
☐ Pond
☐ Lake
☒ Other:
☐ QA Sample Type:

Tidal Creek - estuarine

Type of Sample:
☒ Low Concentration
☐ High Concentration

SAMPLING DATA:

| | | | | | | | | | |
|---------|-------------|----------|--------|---------|-------|-----------|--------|----------|-------|
| Date: | 6/13/2012 | Color | pH | S.C. | Temp. | Turbidity | DO | Salinity | Other |
| Time: | 0434 | (Visual) | (S.U.) | (mS/cm) | (°C) | (NTU) | (mg/l) | (%) | ORP |
| Depth: | 12" | 62/102 | 7.52 | 3.88 | 26.25 | 87.5 | 8.98 | 2.0 | 165 |
| Method: | Direct Fill | | | | | | | | |

SAMPLE COLLECTION INFORMATION:

| Analysis | Preservative | Container Requirements | Collected |
|----------|--------------|------------------------|-----------|
| VOCs | HCl | 40 mL VOA | X |
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OBSERVATIONS / NOTES:

MAP:

Dark Head Cove and Cow Pen Creek

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):



Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Page 1 of 1

Project Site Name: MRC Surface Water Sampling
 Project No.: 112IC04036

Sample ID No.: MRC-SW58 -061312Sample Location: DHC and CPCSampled By: MB/SC/JR

C.O.C. No.: _____

☐ Stream☐ Spring☐ Pond☐ Lake☒ Other: Tidal Creek - Estuarine☐ QA Sample Type: _____

Type of Sample:

☒ Low Concentration☐ High Concentration

SAMPLING DATA:

| | | | | | | | | | |
|---------|-------------|----------|--------|---------|-------|-----------|--------|----------|-------|
| Date: | 6/13/2012 | Color | pH | S.C. | Temp. | Turbidity | DO | Salinity | Other |
| Time: | 0445 | (Visual) | (S.U.) | (mS/cm) | (°C) | (NTU) | (mg/l) | (%) | DLP |
| Depth: | 11.1 ft | 64/92 | 7.69 | 3.91 | 26.20 | 8.5 | 7.53 | 2.1 | 165 |
| Method: | Direct Fill | | | | | | | | |

SAMPLE COLLECTION INFORMATION:

| Analysis | Preservative | Container Requirements | Collected |
|----------|--------------|------------------------|-----------|
| VOCs | HCl | 40 mL VOA | X |
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OBSERVATIONS / NOTES:

MAP:

Dark Head Cove and Cow Pen Creek

Circle if Applicable:

MS/MSD

Duplicate ID No.: _____

Signature(s):



Page 1 of 1

Sample ID No.: MRC-SW 5A2 -061312
 Sample Location: DHC and CPC
 Sampled By: MB/SC/JR
 C.O.C. No.: _____

- Type of Sample:
☒ Low Concentration
☐ High Concentration

QA Sample Type:

| | | | | | | | | | |
|---------|-------------|----------|--------|---------|-------|-----------|--------|----------|-------|
| Date: | 6/13/2012 | Color | pH | S.C. | Temp. | Turbidity | DO | Salinity | Other |
| Time: | 0950 | (Visual) | (S.U.) | (mS/cm) | (°C) | (NTU) | (mg/l) | (%) | OKP |
| Depth: | 32' | 60/BR | 7.60 | 3.43 | 26.41 | 7.7 | 5.88 | 2.1 | 183 |
| Method: | Direct Fill | | | | | | | | |

[illegible]

MAP:

Dark Head Cove and Cow Pen Creek

Signature(s):

Duplicate ID No.:



SURFACE WATER SAMPLE LOG SHEET

Page 1 of 1

Project Site Name: MRC Surface Water Sampling
 Project No.: 112IC04036

Sample ID No.: MRC-SW **6A** -061312

Sample Location: DHC and CPC

Sampled By: MB/SC/JR

C.O.C. No.:

☐ Stream

☐ Spring

☐ Pond

☐ Lake

☒ Other: Tidal Creek - estuarine

☐ QA Sample Type:

Type of Sample:

☒ Low Concentration

☐ High Concentration

SAMPLING DATA:

| | | | | | | | | | |
|---------|-------------|----------|--------|---------|-------|-----------|--------|----------|-------|
| Date: | 6/13/2012 | Color | pH | S.C. | Temp. | Turbidity | DO | Salinity | Other |
| Time: | 1005 | (Visual) | (S.U.) | (mS/cm) | (°C) | (NTU) | (mg/l) | (%) | OCP |
| Depth: | 22 in. | 64/BL | 7.67 | 3.89 | 26.29 | 7.76 | 6.60 | 2.0 | 199 |
| Method: | Direct Fill | | | | | | | | |

SAMPLE COLLECTION INFORMATION:

| Analysis | Preservative | Container Requirements | Collected |
|----------|--------------|------------------------|-----------|
| VOCs | HCl | 40 mL VOA | X |
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OBSERVATIONS / NOTES:

Dark Head Cove and Cow Pen Creek

MRC-SW-6A-061312

MAP:

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

John Miller



Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Page 1 of 1

Project Site Name: MRC Surface Water Sampling
 Project No.: 112IC04036

Sample ID No.: MRC-SW 7A -061312
 Sample Location: DHC and CPC
 Sampled By: MB/SC/JR
 C.O.C. No.: _____

- ☐ Stream
☐ Spring
☐ Pond
☐ Lake
☒ Other:
☐ QA Sample Type:

Tidal Creek - estuarine

Type of Sample:
☒ Low Concentration
☐ High Concentration

SAMPLING DATA:

| | | | | | | | | | |
|---------|-------------|----------|--------|---------|-------|-----------|--------|----------|-------|
| Date: | 6/13/2012 | Color | pH | S.C. | Temp. | Turbidity | DO | Salinity | Other |
| Time: | 1030 | (Visual) | (S.U.) | (mS/cm) | (°C) | (NTU) | (mg/l) | (%) | OLP |
| Depth: | 45" | 67/92 | 7.62 | 7.39 | 25.81 | 8.14 | 6.27 | 1.7 | 180 |
| Method: | Direct Fill | | | | | | | | |

SAMPLE COLLECTION INFORMATION:

| Analysis | Preservative | Container Requirements | Collected |
|----------|--------------|------------------------|-----------|
| VOCs | HCl | 40 mL VOA | X |
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OBSERVATIONS / NOTES:

Dark Head Cove and Cow Pen Creek

MAP:

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):



SURFACE WATER SAMPLE LOG SHEET

Page 1 of 1

Project Site Name: MRC Surface Water Sampling
 Project No.: 112IC04036

Sample ID No.: MRC-SW *8A* -061312
 Sample Location: DHC and CPC
 Sampled By: MB/SC/JR
 C.O.C. No.: _____

- ☐ Stream
☐ Spring
☐ Pond
☐ Lake
☒ Other: Tidal Creek - Estuarine
☐ QA Sample Type: _____

Type of Sample:
☒ Low Concentration
☐ High Concentration

SAMPLING DATA:

| | | | | | | | | | |
|---------|-------------|--------------|-------------|-------------|--------------|-------------|-------------|------------|------------|
| Date: | 6/13/2012 | Color | pH | S.C. | Temp. | Turbidity | DO | Salinity | Other |
| Time: | <i>0955</i> | (Visual) | (S.U.) | (mS/cm) | (°C) | (NTU) | (mg/l) | (%) | <i>DLA</i> |
| Depth: | <i>25"</i> | <i>GM/Ba</i> | <i>7.62</i> | <i>7.84</i> | <i>26.43</i> | <i>8.96</i> | <i>6.33</i> | <i>2.0</i> | <i>186</i> |
| Method: | Direct Fill | | | | | | | | |

SAMPLE COLLECTION INFORMATION:

| Analysis | Preservative | Container Requirements | Collected |
|----------|--------------|------------------------|-----------|
| VOCs | HCl | 40 mL VOA | X |
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OBSERVATIONS / NOTES:

Dark Head Cove and Cow Pen Creek

MAP:

Circle if Applicable:

MS/MSD

Duplicate ID No.: _____

Signature(s):



SURFACE WATER SAMPLE LOG SHEET

Page 1 of 1

Project Site Name: MRC Surface Water Sampling
 Project No.: 112IC04036

Sample ID No.: MRC-SW 9A -061312Sample Location: DHC and CPCSampled By: MB/SC/JR

C.O.C. No.: _____

☐ Stream☐ Spring☐ Pond☐ Lake☒ Other: Tidal Creek - estuarine☐ QA Sample Type: _____

Type of Sample:

☒ Low Concentration☐ High Concentration

SAMPLING DATA:

| | | | | | | | | | |
|---------|-------------|----------|--------|---------|-------|-----------|--------|----------|-------|
| Date: | 6/13/2012 | Color | pH | S.C. | Temp. | Turbidity | DO | Salinity | Other |
| Time: | 1015 | (Visual) | (S.U.) | (mS/cm) | (°C) | (NTU) | (mg/l) | (%) | ORP |
| Depth: | 37m | 64/92 | 7.64 | 7.98 | 26.56 | 8.64 | 5.58 | 2.0 | 178 |
| Method: | Direct Fill | | | | | | | | |

SAMPLE COLLECTION INFORMATION:

| Analysis | Preservative | Container Requirements | Collected |
|----------|--------------|------------------------|-----------|
| VOCs | HCl | 40 mL VOA | X |
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OBSERVATIONS / NOTES:

Dark Head Cove and Cow Pen Creek

MAP:

Circle if Applicable:

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

Signature(s):

APPENDIX B—DATA VALIDATION REPORTS (ON CD)



Tetra Tech

INTERNAL CORRESPONDENCE

TO: T. AVANAVAGE **DATE:** JULY 13, 2012
FROM: A. COGNETTI **COPIES:** DV FILE
SUBJECT: ORGANIC DATA VALIDATION- VOC
MIDDLE RIVER COMPLEX GROUNDWATER SAMPLING – FULL REVIEW
SAMPLE DELIVERY GROUP (SDG) 240-12282-1

SAMPLES: 14/Aqueous/VOC

| | | |
|------------------|-----------------|------------------|
| MRC-SW1A-061312 | MRC-SW2A-061312 | MRC-SW5A1-061312 |
| MRC-SW5A2-061312 | MRC-SW5B-061312 | MRC-SW6A-061312 |
| MRC-SW6B-061312 | MRC-SW7A-061312 | MRC-SW7B-061312 |
| MRC-SW8A-061312 | MRC-SW8B-061312 | MRC-SW9A-061312 |
| MRC-SW9B-061312 | TB-061312 | |

Overview

The sample set for Middle River Complex Groundwater Sampling, SDG 240-12282-1 consists of thirteen (13) aqueous environmental samples and a trip blank. All samples were analyzed for volatile organic compounds (VOCs). There are no field duplicate pairs included in this SDG.

The samples were collected on June 13, 2012 and analyzed by Test America Laboratories, Inc. Volatile organic compound analyses were conducted in accordance to SW-846 Method 8260B reporting and analysis protocol.

Summary

The data contained in this SDG were validated with regard to the following parameters: data completeness, system performance, holding times, GC/MS tuning, initial / continuing calibrations, laboratory method blank results, surrogate spike and internal standard recoveries, laboratory control sample results, matrix spike/matrix spike duplicate results, compound identification, chromatographic resolution, compound quantitation, and detection limits.

Areas of concern with respect to data quality are listed below.

Major Problems

- In the volatile initial calibration of instrument A3UX9 on October 31, 2011, tert-butyl alcohol and 2-butanone had relative response factors (RRF) less than the 0.05 quality control limit. In the continuing calibration on June 21, 2012, tert-butyl alcohol, vinyl acetate and 2-butanone had RRFs less than the 0.05 quality control limit. The nondetected vinyl acetate, 2-butanone and tert-butyl alcohol results were qualified as rejected (UR) in the affected samples.

Minor Problems

- Positive results reported below the reporting limit (RL) but above the method detection limit (MDL) for the organic analyses were qualified as estimated, (J).

TO: T. Avanavage
FROM: A. Cagnetti
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Notes

The continuing calibration percent differences (%Ds) for 2-butanone, 4-methyl-2-pentanone, 2-hexanone, 1,2,4-trichlorobenzene, naphthalene, 1,2,3-trichlorobenzene and ethyl-tert-butyl ether were greater than the 20% quality control limit and less than 50% on June 21, 2012 @ 18:29 and 19:18 on instrument A3UX9.

Contamination was detected in the laboratory method blank associated with batch 240-48405/4.

| <u>Contaminant</u> | <u>Maximum Concentration (ug/L)</u> |
|---------------------|-------------------------------------|
| Hexachlorobutadiene | 0.441 |
| Methylene chloride | 0.659 |

No action was taken on the nondetected hexachlorobutadiene and methylene chloride results in the affected samples.

The laboratory control sample (LCS) percent recoveries (%Rs) 2-butanone, 2-hexanone, 4-methyl-2-pentanone and tert-butyl alcohol were greater than the upper quality control limit in batch 240-48405/5. No action was taken on the nondetected 2-butanone, 2-hexanone, 4-methyl-2-pentanone and tert-butyl alcohol results in the affected samples.

The matrix spike/ matrix spike duplicate (MS/MSD) %Rs 2-chloroethyl vinyl ether were less than the lower quality control limit in sample 240-12358-A-2. No action was taken because this sample is not included in this SDG.

Nondetected results were reported to the MDL.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Vinyl acetate, 2-butanone and tert-butyl alcohol had RRFs less than quality control limits in the initial and continuing calibrations.

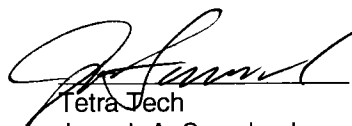
Other Factors Affecting Data Quality: None.

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FROM: A. Cognetti
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The data for these analyses were reviewed with reference to the Region III EPA Functional Guidelines for Organic Data Validation (9/94). The text of this report has been formulated to address only those problem areas affecting data quality.



Tetra Tech
Ann Cognetti
Chemist/Data Validator



Tetra Tech
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

Appendix A – Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
Appendix C – Support Documentation

Appendix A

Qualified Analytical Results

Qualifier Codes:

- A = Lab Blank Contamination
- B = Field Blank Contamination
- C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
- C01 = GC/MS Tuning Noncompliance
- D = MS/MSD Recovery Noncompliance
- E = LCS/LCSD Recovery Noncompliance
- F = Lab Duplicate Imprecision
- G = Field Duplicate Imprecision
- H = Holding Time Exceedance
- I = ICP Serial Dilution Noncompliance
- J = ICP PDS Recovery Noncompliance; MSA's $r < 0.995$
- K = ICP Interference - includes ICS % R Noncompliance
- L = Instrument Calibration Range Exceedance
- M = Sample Preservation Noncompliance
- N = Internal Standard Noncompliance
- N01 = Internal Standard Recovery Noncompliance Dioxins
- N02 = Recovery Standard Noncompliance Dioxins
- N03 = Clean-up Standard Noncompliance Dioxins
- O = Poor Instrument Performance (i.e., base-time drifting)
- P = Uncertainty near detection limit ($< 2 \times \text{IDL}$ for inorganics and $< \text{CRQL}$ for organics)
- Q = Other problems (can encompass a number of issues; i.e. chromatography, interferences, etc.)
- R = Surrogates Recovery Noncompliance
- S = Pesticide/PCB Resolution
- T = % Breakdown Noncompliance for DDT and Endrin
- U = RPD between columns/detectors $> 40\%$ for positive results determined via GC/HPLC
- V = Non-linear calibrations; correlation coefficient $r < 0.995$
- W = EMPC result
- X = Signal to noise response drop
- Y = Percent solids $< 30\%$
- Z = Uncertainty at 2 standard deviations is greater than sample activity
- Z1 = Tentatively Identified Compound considered presumptively present
- Z2 = Tentatively Identified Compound column bleed

| | | | | | | | | | | |
|--|------------|-----------------|-----------------|------------------|------------------|----------|------|--------|----------|------|
| PROJ_NO: 04036 SDG: 240-12282-1 FRACTION: OV MEDIA: WATER | NSAMPLE | MRC-SW1A-061312 | MRC-SW2A-061312 | MRC-SW5A1-061312 | MRC-SW5A2-061312 | | | | | |
| | LAB_ID | 240-12282-1 | 240-12282-2 | 240-12282-3 | 240-12282-4 | | | | | |
| | SAMP_DATE | 6/13/2012 | 6/13/2012 | 6/13/2012 | 6/13/2012 | | | | | |
| | 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 |
| 1,1,1,2-TETRACHLOROETHANE | | | 0.23 U | | | 0.23 U | | | 0.23 U | |
| 1,1,1-TRICHLOROETHANE | | | 0.22 U | | | 0.22 U | | | 0.22 U | |
| 1,1,2,2-TETRACHLOROETHANE | | | 0.18 U | | | 0.18 U | | | 0.18 U | |
| 1,1,2-TRICHLOROTRIFLUOROETHANE | | | 0.28 U | | | 0.28 U | | | 0.28 U | |
| 1,1-DICHLOROETHANE | | | 0.15 U | | | 0.15 U | | | 0.15 U | |
| 1,1-DICHLOROETHENE | | | 0.19 U | | | 0.19 U | | | 0.19 U | |
| 1,1-DICHLOROPROPENE | | | 0.13 U | | | 0.13 U | | | 0.13 U | |
| 1,2,3-TRICHLOROBENZENE | | | 0.17 U | | | 0.17 U | | | 0.17 U | |
| 1,2,3-TRICHLOROPROPANE | | | 0.43 U | | | 0.43 U | | | 0.43 U | |
| 1,2,3-TRIMETHYLBENZENE | | | 0.0059 U | | | 0.0059 U | | | 0.0059 U | |
| 1,2,4-TRICHLOROBENZENE | | | 0.15 U | | | 0.15 U | | | 0.15 U | |
| 1,2,4-TRIMETHYLBENZENE | | | 0.12 U | | | 0.12 U | | | 0.12 U | |
| 1,2-DIBROMO-3-CHLOROPROPANE | | | 0.67 U | | | 0.67 U | | | 0.67 U | |
| 1,2-DIBROMOETHANE | | | 0.24 U | | | 0.24 U | | | 0.24 U | |
| 1,2-DICHLOROBENZENE | | | 0.13 U | | | 0.13 U | | | 0.13 U | |
| 1,2-DICHLOROETHANE | | | 0.22 U | | | 0.22 U | | | 0.22 U | |
| 1,2-DICHLOROPROPANE | | | 0.18 U | | | 0.18 U | | | 0.18 U | |
| 1,3-DICHLOROBENZENE | | | 0.14 U | | | 0.14 U | | | 0.14 U | |
| 1,3-DICHLOROPROPANE | | | 0.16 U | | | 0.16 U | | | 0.16 U | |
| 1,4-DICHLOROBENZENE | | | 0.13 U | | | 0.13 U | | | 0.13 U | |
| 2,2-DICHLOROPROPANE | | | 0.13 U | | | 0.13 U | | | 0.13 U | |
| 2-BUTANONE | | | 0.57 UR | C | | 0.57 UR | C | | 0.57 UR | C |
| 2-CHLOROETHYL VINYL ETHER | | | 0.99 U | | | 0.99 U | | | 0.99 U | |
| 2-CHLOROTOLUENE | | | 0.11 U | | | 0.11 U | | | 0.11 U | |
| 2-HEXANONE | | | 0.41 U | | | 0.41 U | | | 0.41 U | |
| 4-CHLOROTOLUENE | | | 0.18 U | | | 0.18 U | | | 0.18 U | |
| 4-ISOPROPYLTOLUENE | | | 0.12 U | | | 0.12 U | | | 0.12 U | |
| 4-METHYL-2-PENTANONE | | | 0.32 U | | | 0.32 U | | | 0.32 U | |
| ACETONE | | | 3.6 J | P | | 4.7 J | P | | 1.1 U | |
| BENZENE | | | 0.13 U | | | 0.13 U | | | 0.13 U | |
| BROMOBENZENE | | | 0.13 U | | | 0.13 U | | | 0.13 U | |
| BROMOCHLOROMETHANE | | | 0.29 U | | | 0.29 U | | | 0.29 U | |
| BROMODICHLOROMETHANE | | | 0.15 U | | | 0.15 U | | | 0.15 U | |
| BROMOFORM | | | 0.64 U | | | 0.64 U | | | 0.64 U | |
| BROMOMETHANE | | | 0.41 U | | | 0.41 U | | | 0.41 U | |

| | | | | | | | | | |
|--|------------|-----------------|-----------------|-----------------|-----------------|------|----------|-----|------|
| PROJ_NO: 04036 SDG: 240-12282-1 FRACTION: OV MEDIA: WATER | NSAMPLE | MRC-SW5B-061312 | MRC-SW6A-061312 | MRC-SW6B-061312 | MRC-SW7A-061312 | | | | |
| | LAB_ID | 240-12282-5 | 240-12282-6 | 240-12282-7 | 240-12282-8 | | | | |
| | SAMP_DATE | 6/13/2012 | 6/13/2012 | 6/13/2012 | 6/13/2012 | | | | |
| | 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 |
| 1,1,1,2-TETRACHLOROETHANE | 0.23 U | | | 0.23 U | | | 0.23 U | | |
| 1,1,1-TRICHLOROETHANE | 0.22 U | | | 0.22 U | | | 0.22 U | | |
| 1,1,2,2-TETRACHLOROETHANE | 0.18 U | | | 0.18 U | | | 0.18 U | | |
| 1,1,2-TRICHLOROTRIFLUOROETHANE | 0.28 U | | | 0.28 U | | | 0.28 U | | |
| 1,1-DICHLOROETHANE | 0.15 U | | | 0.15 U | | | 0.15 U | | |
| 1,1-DICHLOROETHENE | 0.19 U | | | 0.19 U | | | 0.19 U | | |
| 1,1-DICHLOROPROPENE | 0.13 U | | | 0.13 U | | | 0.13 U | | |
| 1,2,3-TRICHLOROBENZENE | 0.17 U | | | 0.17 U | | | 0.17 U | | |
| 1,2,3-TRICHLOROPROPANE | 0.43 U | | | 0.43 U | | | 0.43 U | | |
| 1,2,3-TRIMETHYLBENZENE | 0.0059 U | | | 0.0059 U | | | 0.0059 U | | |
| 1,2,4-TRICHLOROBENZENE | 0.15 U | | | 0.15 U | | | 0.15 U | | |
| 1,2,4-TRIMETHYLBENZENE | 0.12 U | | | 0.12 U | | | 0.12 U | | |
| 1,2-DIBROMO-3-CHLOROPROPANE | 0.67 U | | | 0.67 U | | | 0.67 U | | |
| 1,2-DIBROMOETHANE | 0.24 U | | | 0.24 U | | | 0.24 U | | |
| 1,2-DICHLOROBENZENE | 0.13 U | | | 0.13 U | | | 0.13 U | | |
| 1,2-DICHLOROETHANE | 0.22 U | | | 0.22 U | | | 0.22 U | | |
| 1,2-DICHLOROPROPANE | 0.18 U | | | 0.18 U | | | 0.18 U | | |
| 1,3-DICHLOROBENZENE | 0.14 U | | | 0.14 U | | | 0.14 U | | |
| 1,3-DICHLOROPROPANE | 0.16 U | | | 0.16 U | | | 0.16 U | | |
| 1,4-DICHLOROBENZENE | 0.13 U | | | 0.13 U | | | 0.13 U | | |
| 2,2-DICHLOROPROPANE | 0.13 U | | | 0.13 U | | | 0.13 U | | |
| 2-BUTANONE | 0.57 UR | C | | 0.57 UR | C | | 0.57 UR | C | |
| 2-CHLOROETHYL VINYL ETHER | 0.99 U | | | 0.99 U | | | 0.99 U | | |
| 2-CHLOROTOLUENE | 0.11 U | | | 0.11 U | | | 0.11 U | | |
| 2-HEXANONE | 0.41 U | | | 0.41 U | | | 0.41 U | | |
| 4-CHLOROTOLUENE | 0.18 U | | | 0.18 U | | | 0.18 U | | |
| 4-ISOPROPYLTOLUENE | 0.12 U | | | 0.12 U | | | 0.12 U | | |
| 4-METHYL-2-PENTANONE | 0.32 U | | | 0.32 U | | | 0.32 U | | |
| ACETONE | 1.1 U | | | 1.1 U | | | 1.1 U | | |
| BENZENE | 0.13 U | | | 0.13 U | | | 0.13 U | | |
| BROMOBENZENE | 0.13 U | | | 0.13 U | | | 0.13 U | | |
| BROMOCHLOROMETHANE | 0.29 U | | | 0.29 U | | | 0.29 U | | |
| BROMODICHLOROMETHANE | 0.15 U | | | 0.15 U | | | 0.15 U | | |
| BROMOFORM | 0.64 U | | | 0.64 U | | | 0.64 U | | |
| BROMOMETHANE | 0.41 U | | | 0.41 U | | | 0.41 U | | |

| | | | | | | | | | | |
|--|------------|-----------------|-----------------|-----------------|-----------------|----------|------|--------|----------|------|
| PROJ_NO: 04036 SDG: 240-12282-1 FRACTION: OV MEDIA: WATER | NSAMPLE | MRC-SW7B-061312 | MRC-SW8A-061312 | MRC-SW8B-061312 | MRC-SW9A-061312 | | | | | |
| | LAB_ID | 240-12282-9 | 240-12282-10 | 240-12282-11 | 240-12282-12 | | | | | |
| | SAMP_DATE | 6/13/2012 | 6/13/2012 | 6/13/2012 | 6/13/2012 | | | | | |
| | 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 |
| 1,1,1,2-TETRACHLOROETHANE | | | 0.23 U | | | 0.23 U | | | 0.23 U | |
| 1,1,1-TRICHLOROETHANE | | | 0.22 U | | | 0.22 U | | | 0.22 U | |
| 1,1,2,2-TETRACHLOROETHANE | | | 0.18 U | | | 0.18 U | | | 0.18 U | |
| 1,1,2-TRICHLOROTRIFLUOROETHANE | | | 0.28 U | | | 0.28 U | | | 0.28 U | |
| 1,1-DICHLOROETHANE | | | 0.15 U | | | 0.15 U | | | 0.15 U | |
| 1,1-DICHLOROETHENE | | | 0.19 U | | | 0.19 U | | | 0.19 U | |
| 1,1-DICHLOROPROPENE | | | 0.13 U | | | 0.13 U | | | 0.13 U | |
| 1,2,3-TRICHLOROBENZENE | | | 0.17 U | | | 0.17 U | | | 0.17 U | |
| 1,2,3-TRICHLOROPROPANE | | | 0.43 U | | | 0.43 U | | | 0.43 U | |
| 1,2,3-TRIMETHYLBENZENE | | | 0.0059 U | | | 0.0059 U | | | 0.0059 U | |
| 1,2,4-TRICHLOROBENZENE | | | 0.15 U | | | 0.15 U | | | 0.15 U | |
| 1,2,4-TRIMETHYLBENZENE | | | 0.12 U | | | 0.12 U | | | 0.12 U | |
| 1,2-DIBROMO-3-CHLOROPROPANE | | | 0.67 U | | | 0.67 U | | | 0.67 U | |
| 1,2-DIBROMOETHANE | | | 0.24 U | | | 0.24 U | | | 0.24 U | |
| 1,2-DICHLOROBENZENE | | | 0.13 U | | | 0.13 U | | | 0.13 U | |
| 1,2-DICHLOROETHANE | | | 0.22 U | | | 0.22 U | | | 0.22 U | |
| 1,2-DICHLOROPROPANE | | | 0.18 U | | | 0.18 U | | | 0.18 U | |
| 1,3-DICHLOROBENZENE | | | 0.14 U | | | 0.14 U | | | 0.14 U | |
| 1,3-DICHLOROPROPANE | | | 0.16 U | | | 0.16 U | | | 0.16 U | |
| 1,4-DICHLOROBENZENE | | | 0.13 U | | | 0.13 U | | | 0.13 U | |
| 2,2-DICHLOROPROPANE | | | 0.13 U | | | 0.13 U | | | 0.13 U | |
| 2-BUTANONE | | | 0.57 UR | C | | 0.57 UR | C | | 0.57 UR | C |
| 2-CHLOROETHYL VINYL ETHER | | | 0.99 U | | | 0.99 U | | | 0.99 U | |
| 2-CHLOROTOLUENE | | | 0.11 U | | | 0.11 U | | | 0.11 U | |
| 2-HEXANONE | | | 0.41 U | | | 0.41 U | | | 0.41 U | |
| 4-CHLOROTOLUENE | | | 0.18 U | | | 0.18 U | | | 0.18 U | |
| 4-ISOPROPYLTOLUENE | | | 0.12 U | | | 0.12 U | | | 0.12 U | |
| 4-METHYL-2-PENTANONE | | | 0.32 U | | | 0.32 U | | | 0.32 U | |
| ACETONE | | | 1.1 U | | | 1.1 U | | | 1.1 U | |
| BENZENE | | | 0.13 U | | | 0.13 U | | | 0.13 U | |
| BROMOBENZENE | | | 0.13 U | | | 0.13 U | | | 0.13 U | |
| BROMOCHLOROMETHANE | | | 0.29 U | | | 0.29 U | | | 0.29 U | |
| BROMODICHLOROMETHANE | | | 0.15 U | | | 0.15 U | | | 0.15 U | |
| BROMOFORM | | | 0.64 U | | | 0.64 U | | | 0.64 U | |
| BROMOMETHANE | | | 0.41 U | | | 0.41 U | | | 0.41 U | |

| | | | |
|--|------------|-----------------|--------------|
| PROJ_NO: 04036 SDG: 240-12282-1 FRACTION: OV MEDIA: WATER | NSAMPLE | MRC-SW9B-061312 | TB-061312 |
| | LAB_ID | 240-12282-13 | 240-12282-14 |
| | SAMP_DATE | 6/13/2012 | 6/13/2012 |
| | QC_TYPE | NM | NM |
| | UNITS | UG/L | UG/L |
| | PCT_SOLIDS | 0.0 | 0.0 |
| DUP_OF | | | |
| PARAMETER | RESULT | VQL | QLCD |
| 1,1,1,2-TETRACHLOROETHANE | 0.23 U | | 0.23 U |
| 1,1,1-TRICHLOROETHANE | 0.22 U | | 0.22 U |
| 1,1,2,2-TETRACHLOROETHANE | 0.18 U | | 0.18 U |
| 1,1,2-TRICHLOROTRIFLUOROETHANE | 0.28 U | | 0.28 U |
| 1,1-DICHLOROETHANE | 0.15 U | | 0.15 U |
| 1,1-DICHLOROETHENE | 0.19 U | | 0.19 U |
| 1,1-DICHLOROPROPENE | 0.13 U | | 0.13 U |
| 1,2,3-TRICHLOROBENZENE | 0.17 U | | 0.17 U |
| 1,2,3-TRICHLOROPROPANE | 0.43 U | | 0.43 U |
| 1,2,3-TRIMETHYLBENZENE | 0.0059 U | | 0.0059 U |
| 1,2,4-TRICHLOROBENZENE | 0.15 U | | 0.15 U |
| 1,2,4-TRIMETHYLBENZENE | 0.12 U | | 0.12 U |
| 1,2-DIBROMO-3-CHLOROPROPANE | 0.67 U | | 0.67 U |
| 1,2-DIBROMOETHANE | 0.24 U | | 0.24 U |
| 1,2-DICHLOROBENZENE | 0.13 U | | 0.13 U |
| 1,2-DICHLOROETHANE | 0.22 U | | 0.22 U |
| 1,2-DICHLOROPROPANE | 0.18 U | | 0.18 U |
| 1,3-DICHLOROBENZENE | 0.14 U | | 0.14 U |
| 1,3-DICHLOROPROPANE | 0.16 U | | 0.16 U |
| 1,4-DICHLOROBENZENE | 0.13 U | | 0.13 U |
| 2,2-DICHLOROPROPANE | 0.13 U | | 0.13 U |
| 2-BUTANONE | 0.57 UR | C | 0.57 UR C |
| 2-CHLOROETHYL VINYL ETHER | 0.99 U | | 0.99 U |
| 2-CHLOROTOLUENE | 0.11 U | | 0.11 U |
| 2-HEXANONE | 0.41 U | | 0.41 U |
| 4-CHLOROTOLUENE | 0.18 U | | 0.18 U |
| 4-ISOPROPYLTOLUENE | 0.12 U | | 0.12 U |
| 4-METHYL-2-PENTANONE | 0.32 U | | 0.32 U |
| ACETONE | 1.1 U | | 1.1 U |
| BENZENE | 0.13 U | | 0.13 U |
| BROMOBENZENE | 0.13 U | | 0.13 U |
| BROMOCHLOROMETHANE | 0.29 U | | 0.29 U |
| BROMODICHLOROMETHANE | 0.15 U | | 0.15 U |
| BROMOFORM | 0.64 U | | 0.64 U |
| BROMOMETHANE | 0.41 U | | 0.41 U |

| PROJ_NO: 04036 SDG: 240-12282-1 FRACTION: OV MEDIA: WATER | NSAMPLE | MRC-SW1A-061312 | MRC-SW2A-061312 | MRC-SW5A1-061312 | MRC-SW5A2-061312 | | | | |
|--|------------|-----------------|-----------------|------------------|------------------|------|--------|---------|------|
| | LAB_ID | 240-12282-1 | 240-12282-2 | 240-12282-3 | 240-12282-4 | | | | |
| | SAMP_DATE | 6/13/2012 | 6/13/2012 | 6/13/2012 | 6/13/2012 | | | | |
| | 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 |
| CARBON DISULFIDE | | 0.13 U | | | 0.13 U | | | 0.13 U | |
| CARBON TETRACHLORIDE | | 0.13 U | | | 0.13 U | | | 0.13 U | |
| CHLOROBENZENE | | 0.15 U | | | 0.15 U | | | 0.15 U | |
| CHLORODIBROMOMETHANE | | 0.18 U | | | 0.18 U | | | 0.18 U | |
| CHLOROETHANE | | 0.29 U | | | 0.29 U | | | 0.29 U | |
| CHLOROFORM | | 0.16 U | | | 0.16 U | | | 0.16 U | |
| CHLOROMETHANE | | 0.3 U | | | 0.3 U | | | 0.3 U | |
| CIS-1,2-DICHLOROETHENE | | 0.17 U | | | 0.17 U | | | 0.17 U | |
| CIS-1,3-DICHLOROPROPENE | | 0.14 U | | | 0.14 U | | | 0.14 U | |
| DIBROMOMETHANE | | 0.28 U | | | 0.28 U | | | 0.28 U | |
| DICHLORODIFLUOROMETHANE | | 0.31 U | | | 0.31 U | | | 0.31 U | |
| DIISOPROPYL ETHER | | 1.5 U | | | 1.5 U | | | 1.5 U | |
| ETHYL TERT-BUTYL ETHER | | 0.11 U | | | 0.11 U | | | 0.11 U | |
| ETHYLBENZENE | | 0.17 U | | | 0.17 U | | | 0.17 U | |
| HEXACHLOROBUTADIENE | | 0.3 U | | | 0.3 U | | | 0.3 U | |
| ISOPROPYLBENZENE | | 0.13 U | | | 0.13 U | | | 0.13 U | |
| M+P-XYLENES | | 0.24 U | | | 0.24 U | | | 0.24 U | |
| METHYL TERT-BUTYL ETHER | | 0.17 U | | | 0.17 U | | | 0.17 U | |
| METHYLENE CHLORIDE | | 0.33 U | | | 0.33 U | | | 0.33 U | |
| NAPHTHALENE | | 0.24 U | | | 0.24 U | | | 0.24 U | |
| N-BUTYLBENZENE | | 0.12 U | | | 0.12 U | | | 0.12 U | |
| N-PROPYLBENZENE | | 0.14 U | | | 0.14 U | | | 0.14 U | |
| O-XYLENE | | 0.14 U | | | 0.14 U | | | 0.14 U | |
| SEC-BUTYLBENZENE | | 0.13 U | | | 0.13 U | | | 0.13 U | |
| STYRENE | | 0.11 U | | | 0.11 U | | | 0.11 U | |
| TERT-AMYL METHYL ETHER | | 0.067 U | | | 0.067 U | | | 0.067 U | |
| TERT-BUTYLBENZENE | | 0.13 U | | | 0.13 U | | | 0.13 U | |
| TERTIARY-BUTYL ALCOHOL | | 3.9 UR | C | | 3.9 UR | C | | 3.9 UR | C |
| TETRACHLOROETHENE | | 0.29 U | | | 0.29 U | | | 0.29 U | |
| TOLUENE | | 0.13 U | | | 0.13 U | | | 0.13 U | |
| TOTAL XYLENES | | 0.28 U | | | 0.28 U | | | 0.28 U | |
| TRANS-1,2-DICHLOROETHENE | | 0.19 U | | | 0.19 U | | | 0.19 U | |
| TRANS-1,3-DICHLOROPROPENE | | 0.19 U | | | 0.19 U | | | 0.19 U | |
| TRICHLOROETHENE | | 0.17 U | | | 0.17 U | | P | 0.19 J | P |
| TRICHLOROFLUOROMETHANE | | 0.21 U | | | 0.21 U | | | 0.21 U | |

| PROJ_NO: 04036 SDG: 240-12282-1 FRACTION: OV MEDIA: WATER | NSAMPLE | MRC-SW5B-061312 | | | | MRC-SW6A-061312 | | | | MRC-SW6B-061312 | | | | MRC-SW7A-061312 | | | |
|--|------------|-----------------|-------------|-------------|-------------|-----------------|-------------|-------------|-------------|-----------------|-------------|-------------|-------------|-----------------|-------------|-------------|-------------|
| | LAB_ID | 240-12282-5 | 240-12282-5 | 240-12282-6 | 240-12282-6 | 240-12282-7 | 240-12282-7 | 240-12282-8 | 240-12282-8 | 240-12282-7 | 240-12282-7 | 240-12282-8 | 240-12282-8 | 240-12282-7 | 240-12282-7 | 240-12282-8 | 240-12282-8 |
| | SAMP_DATE | 6/13/2012 | 6/13/2012 | 6/13/2012 | 6/13/2012 | 6/13/2012 | 6/13/2012 | 6/13/2012 | 6/13/2012 | 6/13/2012 | 6/13/2012 | 6/13/2012 | 6/13/2012 | 6/13/2012 | 6/13/2012 | 6/13/2012 | 6/13/2012 |
| | QC_TYPE | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM |
| | UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| | PCT_SOLIDS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | DUP_OF | | | | | | | | | | | | | | | | |
| PARAMETER | | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD | RESULT | VQL | QLCD | QLCD |
| CARBON DISULFIDE | | 0.13 U | | | 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 | | | 0.13 U | | | |
| CHLOROBENZENE | | 0.15 U | | | 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 | | | 0.18 U | | | |
| CHLOROETHANE | | 0.29 U | | | 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 | | | 0.16 U | | | |
| CHLOROMETHANE | | 0.3 U | | | 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 | | | 0.17 U | | | |
| CIS-1,3-DICHLOROPROPENE | | 0.14 U | | | 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 | | | 0.28 U | | | |
| DICHLORODIFLUOROMETHANE | | 0.31 U | | | 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 | | | 1.5 U | | | |
| ETHYL TERT-BUTYL ETHER | | 0.11 U | | | 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 | | | 0.17 U | | | |
| HEXACHLOROBTADIENE | | 0.3 U | | | 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 | | | 0.13 U | | | |
| M+P-XYLENES | | 0.24 U | | | 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 | | | 0.17 U | | | |
| METHYLENE CHLORIDE | | 0.33 U | | | 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 | | | 0.24 U | | | |
| N-BUTYLBENZENE | | 0.12 U | | | 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 | | | 0.14 U | | | |
| O-XYLENE | | 0.14 U | | | 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 | | | 0.13 U | | | |
| STYRENE | | 0.11 U | | | 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 | | | 0.067 U | | | |
| TERT-BUTYLBENZENE | | 0.13 U | | | 0.13 U | | | 0.13 U | | | 0.13 U | | | 0.13 U | | | |
| TERTIARY-BUTYL ALCOHOL | | 3.9 UR | | | 3.9 UR | | | 3.9 UR | | | 3.9 UR | | | 3.9 UR | | | |
| TETRACHLOROETHENE | | 0.29 U | | | 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 | | | 0.13 U | | | |
| TOTAL XYLENES | | 0.28 U | | | 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 | | | 0.19 U | | | |
| TRANS-1,3-DICHLOROPROPENE | | 0.19 U | | | 0.19 U | | | 0.19 U | | | 0.19 U | | | 0.19 U | | | |
| TRICHLOROETHENE | | 0.19 J | | | 0.19 J | | | 0.55 J | | | 0.55 J | | | 0.63 J | | | |
| TRICHLOROFLUOROMETHANE | | 0.21 U | | | 0.21 U | | | 0.21 U | | | 0.21 U | | | 0.21 U | | | |

| PROJ_NO: 04036 SDG: 240-12282-1 FRACTION: OV MEDIA: WATER | NSAMPLE | MRC-SW7B-061312 | | | MRC-SW8A-061312 | | | MRC-SW8B-061312 | | | MRC-SW9A-061312 | | |
|--|----------------------|-----------------|--------------|--------------|-----------------|--------------|--------------|-----------------|--------------|--------------|-----------------|--------------|------|
| | LAB_ID | 240-12282-9 | 240-12282-10 | 240-12282-11 | 240-12282-12 | 240-12282-10 | 240-12282-11 | 240-12282-12 | 240-12282-11 | 240-12282-12 | 240-12282-12 | 240-12282-12 | |
| | SAMP_DATE | 6/13/2012 | 6/13/2012 | 6/13/2012 | 6/13/2012 | 6/13/2012 | 6/13/2012 | 6/13/2012 | 6/13/2012 | 6/13/2012 | 6/13/2012 | 6/13/2012 | |
| | QC_TYPE | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | |
| | UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | |
| | PCT_SOLIDS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 | | 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 | | 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 | 0.32 J | P | | 0.66 J | P | | 0.82 J | P | | 0.33 J | P | |
| TRICHLOROFLUOROMETHANE | 0.21 U | | | 0.21 U | | | 0.21 U | | | 0.21 U | | |

| | | | | | | |
|--|------------|-----------------|--------------|--------|---------|------|
| PROJ_NO: 04036 SDG: 240-12282-1 FRACTION: OV MEDIA: WATER | NSAMPLE | MRC-SW9B-061312 | TB-061312 | | | |
| | LAB_ID | 240-12282-13 | 240-12282-14 | | | |
| | SAMP_DATE | 6/13/2012 | 6/13/2012 | | | |
| | QC_TYPE | NM | NM | | | |
| | UNITS | UG/L | UG/L | | | |
| | PCT_SOLIDS | 0.0 | 0.0 | | | |
| | DUP_OF | | | | | |
| PARAMETER | RESULT | VQL | QLCD | RESULT | VQL | QLCD |
| CARBON DISULFIDE | | 0.13 U | | | 0.13 U | |
| CARBON TETRACHLORIDE | | 0.13 U | | | 0.13 U | |
| CHLOROBENZENE | | 0.15 U | | | 0.15 U | |
| CHLORODIBROMOMETHANE | | 0.18 U | | | 0.18 U | |
| CHLOROETHANE | | 0.29 U | | | 0.29 U | |
| CHLOROFORM | | 0.16 U | | | 0.16 U | |
| CHLOROMETHANE | | 0.3 U | | | 0.3 U | |
| CIS-1,2-DICHLOROETHENE | | 0.17 U | | | 0.17 U | |
| CIS-1,3-DICHLOROPROPENE | | 0.14 U | | | 0.14 U | |
| DIBROMOMETHANE | | 0.28 U | | | 0.28 U | |
| DICHLORODIFLUOROMETHANE | | 0.31 U | | | 0.31 U | |
| DIISOPROPYL ETHER | | 1.5 U | | | 1.5 U | |
| ETHYL TERT-BUTYL ETHER | | 0.11 U | | | 0.11 U | |
| ETHYLBENZENE | | 0.17 U | | | 0.17 U | |
| HEXACHLOROBUTADIENE | | 0.3 U | | | 0.3 U | |
| ISOPROPYLBENZENE | | 0.13 U | | | 0.13 U | |
| M+P-XYLENES | | 0.24 U | | | 0.24 U | |
| METHYL TERT-BUTYL ETHER | | 0.17 U | | | 0.17 U | |
| METHYLENE CHLORIDE | | 0.33 U | | | 0.33 U | |
| NAPHTHALENE | | 0.24 U | | | 0.24 U | |
| N-BUTYLBENZENE | | 0.12 U | | | 0.12 U | |
| N-PROPYLBENZENE | | 0.14 U | | | 0.14 U | |
| O-XYLENE | | 0.14 U | | | 0.14 U | |
| SEC-BUTYLBENZENE | | 0.13 U | | | 0.13 U | |
| STYRENE | | 0.11 U | | | 0.11 U | |
| TERT-AMYL METHYL ETHER | | 0.067 U | | | 0.067 U | |
| TERT-BUTYLBENZENE | | 0.13 U | | | 0.13 U | |
| TERTIARY-BUTYL ALCOHOL | | 3.9 UR | C | | 3.9 UR | C |
| TETRACHLOROETHENE | | 0.29 U | | | 0.29 U | |
| TOLUENE | | 0.13 U | | | 0.13 U | |
| TOTAL XYLENES | | 0.28 U | | | 0.28 U | |
| TRANS-1,2-DICHLOROETHENE | | 0.19 U | | | 0.19 U | |
| TRANS-1,3-DICHLOROPROPENE | | 0.19 U | | | 0.19 U | |
| TRICHLOROETHENE | | 0.34 J | P | | 0.17 U | |
| TRICHLOROFLUOROMETHANE | | 0.21 U | | | 0.21 U | |

| | | | | | | | | | |
|--|------------|-----------------|-----|-----------------|--------|------------------|------|------------------|-----|
| PROJ_NO: 04036 SDG: 240-12282-1 FRACTION: OV MEDIA: WATER | NSAMPLE | MRC-SW1A-061312 | | MRC-SW2A-061312 | | MRC-SW5A1-061312 | | MRC-SW5A2-061312 | |
| | LAB_ID | 240-12282-1 | | 240-12282-2 | | 240-12282-3 | | 240-12282-4 | |
| | SAMP_DATE | 6/13/2012 | | 6/13/2012 | | 6/13/2012 | | 6/13/2012 | |
| | 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 |
| VINYL ACETATE | | 0.19 | UR | C | 0.19 | UR | C | 0.19 | UR |
| VINYL CHLORIDE | | 0.22 | U | | 0.22 | U | | 0.22 | U |

| | | | |
|------------------|------------|-----------------|--------------|
| PROJ_NO: 04036 | NSAMPLE | MRC-SW9B-061312 | TB-061312 |
| SDG: 240-12282-1 | LAB_ID | 240-12282-13 | 240-12282-14 |
| FRACTION: OV | SAMP_DATE | 6/13/2012 | 6/13/2012 |
| MEDIA: WATER | QC_TYPE | NM | NM |
| | UNITS | UG/L | UG/L |
| | PCT_SOLIDS | 0.0 | 0.0 |
| | DUP_OF | | |
| PARAMETER | RESULT | VQL | QLCD |
| VINYL ACETATE | 0.19 | UR | C |
| VINYL CHLORIDE | 0.22 | U | |
| | | | |
| | RESULT | VQL | QLCD |
| | 0.19 | UR | C |
| | 0.22 | U | |
| | | | |
| | RESULT | VQL | QLCD |
| | 0.19 | UR | C |
| | 0.22 | U | |
| | | | |

Appendix B

Results as Reported by the Laboratory

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

| | |
|--|--|
| Lab Name: <u>TestAmerica Canton</u> | Job No.: <u>240-12282-1</u> |
| SDG No.: _____ | |
| Client Sample ID: <u>MRC-SW1A-061312</u> | Lab Sample ID: <u>240-12282-1</u> |
| Matrix: <u>Water</u> | Lab File ID: <u>UX932468.D</u> |
| Analysis Method: <u>8260B</u> | Date Collected: <u>06/13/2012 09:10</u> |
| Sample wt/vol: <u>5(mL)</u> | Date Analyzed: <u>06/21/2012 21:40</u> |
| Soil Aliquot Vol: _____ | Dilution Factor: <u>1</u> |
| Soil Extract Vol.: _____ | GC Column: <u>DB-624</u> ID: <u>0.18(mm)</u> |
| % Moisture: _____ | Level: (low/med) <u>Low</u> |
| Analysis Batch No.: <u>48405</u> | Units: <u>ug/L</u> |

| 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 | 3.6 | J | 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: <u>TestAmerica Canton</u> | Job No.: <u>240-12282-1</u> |
| SDG No.: _____ | |
| Client Sample ID: <u>MRC-SW1A-061312</u> | Lab Sample ID: <u>240-12282-1</u> |
| Matrix: <u>Water</u> | Lab File ID: <u>UX932468.D</u> |
| Analysis Method: <u>8260B</u> | Date Collected: <u>06/13/2012 09:10</u> |
| Sample wt/vol: <u>5(mL)</u> | Date Analyzed: <u>06/21/2012 21:40</u> |
| Soil Aliquot Vol: _____ | Dilution Factor: <u>1</u> |
| Soil Extract Vol.: _____ | GC Column: <u>DB-624</u> ID: <u>0.18(mm)</u> |
| % Moisture: _____ | Level: (low/med) <u>Low</u> |
| Analysis Batch No.: <u>48405</u> | Units: <u>ug/L</u> |

| 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 | 5.0 | U | 5.0 | 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-12282-1
 SDG No.: _____
 Client Sample ID: MRC-SW1A-061312 Lab Sample ID: 240-12282-1
 Matrix: Water Lab File ID: UX932468.D
 Analysis Method: 8260B Date Collected: 06/13/2012 09:10
 Sample wt/vol: 5 (mL) Date Analyzed: 06/21/2012 21:40
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 48405 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) | 93 | | 63-129 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 82 | | 66-117 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 88 | | 75-121 |
| 2037-26-5 | Toluene-d8 (Surr) | 89 | | 74-115 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton Job No.: 240-12282-1
SDG No.: _____
Client Sample ID: MRC-SW1A-061312 Lab Sample ID: 240-12282-1
Matrix: Water Lab File ID: UX932468.D
Analysis Method: 8260B Date Collected: 06/13/2012 09:10
Sample wt/vol: 5 (mL) Date Analyzed: 06/21/2012 21:40
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 48405 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---------|---------------------------------|----|--------|---|
| | Tentatively Identified Compound | | None | |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-12282-1

SDG No.: _____

Client Sample ID: MRC-SW2A-061312 Lab Sample ID: 240-12282-2

Matrix: Water Lab File ID: UX932469.D

Analysis Method: 8260B Date Collected: 06/13/2012 09:20

Sample wt/vol: 5(mL) Date Analyzed: 06/21/2012 22:02

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 48405 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 | 4.7 | J | 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: <u>TestAmerica Canton</u> | Job No.: <u>240-12282-1</u> |
| SDG No.: _____ | |
| Client Sample ID: <u>MRC-SW2A-061312</u> | Lab Sample ID: <u>240-12282-2</u> |
| Matrix: <u>Water</u> | Lab File ID: <u>UX932469.D</u> |
| Analysis Method: <u>8260B</u> | Date Collected: <u>06/13/2012 09:20</u> |
| Sample wt/vol: <u>5(mL)</u> | Date Analyzed: <u>06/21/2012 22:02</u> |
| Soil Aliquot Vol: _____ | Dilution Factor: <u>1</u> |
| Soil Extract Vol.: _____ | GC Column: <u>DB-624</u> ID: <u>0.18(mm)</u> |
| % Moisture: _____ | Level: (low/med) <u>Low</u> |
| Analysis Batch No.: <u>48405</u> | Units: <u>ug/L</u> |

| 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 | 5.0 | U | 5.0 | 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-12282-1
SDG No.: _____
Client Sample ID: MRC-SW2A-061312 Lab Sample ID: 240-12282-2
Matrix: Water Lab File ID: UX932469.D
Analysis Method: 8260B Date Collected: 06/13/2012 09:20
Sample wt/vol: 5 (mL) Date Analyzed: 06/21/2012 22:02
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 48405 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) | 91 | | 63-129 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 82 | | 66-117 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 88 | | 75-121 |
| 2037-26-5 | Toluene-d8 (Surr) | 91 | | 74-115 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton Job No.: 240-12282-1
SDG No.: _____
Client Sample ID: MRC-SW2A-061312 Lab Sample ID: 240-12282-2
Matrix: Water Lab File ID: UX932469.D
Analysis Method: 8260B Date Collected: 06/13/2012 09:20
Sample wt/vol: 5 (mL) Date Analyzed: 06/21/2012 22:02
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 48405 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---------|---------------------------------|----|--------|---|
| | Tentatively Identified Compound | | None | |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

| | |
|---|---|
| Lab Name: <u>TestAmerica Canton</u> | Job No.: <u>240-12282-1</u> |
| SDG No.: _____ | |
| Client Sample ID: <u>MRC-SW5A1-061312</u> | Lab Sample ID: <u>240-12282-3</u> |
| Matrix: <u>Water</u> | Lab File ID: <u>UX932470.D</u> |
| Analysis Method: <u>8260B</u> | Date Collected: <u>06/13/2012 09:34</u> |
| Sample wt/vol: <u>5 (mL)</u> | Date Analyzed: <u>06/21/2012 22:26</u> |
| Soil Aliquot Vol: _____ | Dilution Factor: <u>1</u> |
| Soil Extract Vol.: _____ | GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u> |
| % Moisture: _____ | Level: (low/med) <u>Low</u> |
| Analysis Batch No.: <u>48405</u> | Units: <u>ug/L</u> |

| 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.: 240-12282-1

SDG No.: _____

Client Sample ID: MRC-SW5A1-061312 Lab Sample ID: 240-12282-3

Matrix: Water Lab File ID: UX932470.D

Analysis Method: 8260B Date Collected: 06/13/2012 09:34

Sample wt/vol: 5(mL) Date Analyzed: 06/21/2012 22:26

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.: 48405 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 | 5.0 | U | 5.0 | 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 | 0.17 | J | 1.0 | 0.17 |
| 75-69-4 | Trichlorofluoromethane | 1.0 | U | 1.0 | 0.21 |
| 108-05-4 | Vinyl acetate | 2.0 | U | 2.0 | 0.19 |
| 75-01-4 | Vinyl chloride | 0.50 | U | 0.50 | 0.22 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-12282-1
 SDG No.: _____
 Client Sample ID: MRC-SW5A1-061312 Lab Sample ID: 240-12282-3
 Matrix: Water Lab File ID: UX932470.D
 Analysis Method: 8260B Date Collected: 06/13/2012 09:34
 Sample wt/vol: 5 (mL) Date Analyzed: 06/21/2012 22:26
 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.: 48405 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0 | U | 2.0 | 0.28 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 92 | | 63-129 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 82 | | 66-117 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 88 | | 75-121 |
| 2037-26-5 | Toluene-d8 (Surr) | 89 | | 74-115 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton Job No.: 240-12282-1
SDG No.: _____
Client Sample ID: MRC-SW5A1-061312 Lab Sample ID: 240-12282-3
Matrix: Water Lab File ID: UX932470.D
Analysis Method: 8260B Date Collected: 06/13/2012 09:34
Sample wt/vol: 5 (mL) Date Analyzed: 06/21/2012 22:26
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.: 48405 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---------|---------------------------------|----|--------|---|
| | Tentatively Identified Compound | | None | |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-12282-1

SDG No.: _____

Client Sample ID: MRC-SW5A2-061312 Lab Sample ID: 240-12282-4

Matrix: Water Lab File ID: UX932471.D

Analysis Method: 8260B Date Collected: 06/13/2012 09:50

Sample wt/vol: 5(mL) Date Analyzed: 06/21/2012 22:48

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 48405 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: <u>TestAmerica Canton</u> | Job No.: <u>240-12282-1</u> |
| SDG No.: _____ | |
| Client Sample ID: <u>MRC-SW5A2-061312</u> | Lab Sample ID: <u>240-12282-4</u> |
| Matrix: <u>Water</u> | Lab File ID: <u>UX932471.D</u> |
| Analysis Method: <u>8260B</u> | Date Collected: <u>06/13/2012 09:50</u> |
| Sample wt/vol: <u>5(mL)</u> | Date Analyzed: <u>06/21/2012 22:48</u> |
| Soil Aliquot Vol: _____ | Dilution Factor: <u>1</u> |
| Soil Extract Vol.: _____ | GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u> |
| % Moisture: _____ | Level: (low/med) <u>Low</u> |
| Analysis Batch No.: <u>48405</u> | Units: <u>ug/L</u> |

| 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 | 5.0 | U | 5.0 | 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 | 0.19 | J | 1.0 | 0.17 |
| 75-69-4 | Trichlorofluoromethane | 1.0 | U | 1.0 | 0.21 |
| 108-05-4 | Vinyl acetate | 2.0 | U | 2.0 | 0.19 |
| 75-01-4 | Vinyl chloride | 0.50 | U | 0.50 | 0.22 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-12282-1
SDG No.: _____
Client Sample ID: MRC-SW5A2-061312 Lab Sample ID: 240-12282-4
Matrix: Water Lab File ID: UX932471.D
Analysis Method: 8260B Date Collected: 06/13/2012 09:50
Sample wt/vol: 5(mL) Date Analyzed: 06/21/2012 22:48
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 48405 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0 | U | 2.0 | 0.28 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 92 | | 63-129 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 83 | | 66-117 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 88 | | 75-121 |
| 2037-26-5 | Toluene-d8 (Surr) | 91 | | 74-115 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton Job No.: 240-12282-1
SDG No.: _____
Client Sample ID: MRC-SW5A2-061312 Lab Sample ID: 240-12282-4
Matrix: Water Lab File ID: UX932471.D
Analysis Method: 8260B Date Collected: 06/13/2012 09:50
Sample wt/vol: 5 (mL) Date Analyzed: 06/21/2012 22:48
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 48405 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---------|---------------------------------|----|--------|---|
| | Tentatively Identified Compound | | None | |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-12282-1

SDG No.: _____

Client Sample ID: MRC-SW5B-061312 Lab Sample ID: 240-12282-5

Matrix: Water Lab File ID: UX932472.D

Analysis Method: 8260B Date Collected: 06/13/2012 09:45

Sample wt/vol: 5(mL) Date Analyzed: 06/21/2012 23:12

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.: 48405 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.: 240-12282-1

SDG No.: _____

Client Sample ID: MRC-SW5B-061312 Lab Sample ID: 240-12282-5

Matrix: Water Lab File ID: UX932472.D

Analysis Method: 8260B Date Collected: 06/13/2012 09:45

Sample wt/vol: 5(mL) Date Analyzed: 06/21/2012 23:12

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.: 48405 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 | 5.0 | U | 5.0 | 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 | 0.19 | J | 1.0 | 0.17 |
| 75-69-4 | Trichlorofluoromethane | 1.0 | U | 1.0 | 0.21 |
| 108-05-4 | Vinyl acetate | 2.0 | U | 2.0 | 0.19 |
| 75-01-4 | Vinyl chloride | 0.50 | U | 0.50 | 0.22 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-12282-1
SDG No.: _____
Client Sample ID: MRC-SW5B-061312 Lab Sample ID: 240-12282-5
Matrix: Water Lab File ID: UX932472.D
Analysis Method: 8260B Date Collected: 06/13/2012 09:45
Sample wt/vol: 5(mL) Date Analyzed: 06/21/2012 23:12
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.: 48405 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) | 91 | | 63-129 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 82 | | 66-117 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 87 | | 75-121 |
| 2037-26-5 | Toluene-d8 (Surr) | 90 | | 74-115 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton Job No.: 240-12282-1
SDG No.: _____
Client Sample ID: MRC-SW5B-061312 Lab Sample ID: 240-12282-5
Matrix: Water Lab File ID: UX932472.D
Analysis Method: 8260B Date Collected: 06/13/2012 09:45
Sample wt/vol: 5 (mL) Date Analyzed: 06/21/2012 23:12
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.: 48405 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---------|---------------------------------|----|--------|---|
| | Tentatively Identified Compound | | None | |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

| | |
|--|--|
| Lab Name: <u>TestAmerica Canton</u> | Job No.: <u>240-12282-1</u> |
| SDG No.: _____ | |
| Client Sample ID: <u>MRC-SW6A-061312</u> | Lab Sample ID: <u>240-12282-6</u> |
| Matrix: <u>Water</u> | Lab File ID: <u>UX932473.D</u> |
| Analysis Method: <u>8260B</u> | Date Collected: <u>06/13/2012 10:05</u> |
| Sample wt/vol: <u>5(mL)</u> | Date Analyzed: <u>06/21/2012 23:36</u> |
| Soil Aliquot Vol: _____ | Dilution Factor: <u>1</u> |
| Soil Extract Vol.: _____ | GC Column: <u>DB-624</u> ID: <u>0.18(mm)</u> |
| % Moisture: _____ | Level: (low/med) <u>Low</u> |
| Analysis Batch No.: <u>48405</u> | Units: <u>ug/L</u> |

| 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: <u>TestAmerica Canton</u> | Job No.: <u>240-12282-1</u> |
| SDG No.: _____ | |
| Client Sample ID: <u>MRC-SW6A-061312</u> | Lab Sample ID: <u>240-12282-6</u> |
| Matrix: <u>Water</u> | Lab File ID: <u>UX932473.D</u> |
| Analysis Method: <u>8260B</u> | Date Collected: <u>06/13/2012 10:05</u> |
| Sample wt/vol: <u>5(mL)</u> | Date Analyzed: <u>06/21/2012 23:36</u> |
| Soil Aliquot Vol: _____ | Dilution Factor: <u>1</u> |
| Soil Extract Vol.: _____ | GC Column: <u>DB-624</u> ID: <u>0.18(mm)</u> |
| % Moisture: _____ | Level: (low/med) <u>Low</u> |
| Analysis Batch No.: <u>48405</u> | Units: <u>ug/L</u> |

| 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 | 5.0 | U | 5.0 | 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 | 0.55 | J | 1.0 | 0.17 |
| 75-69-4 | Trichlorofluoromethane | 1.0 | U | 1.0 | 0.21 |
| 108-05-4 | Vinyl acetate | 2.0 | U | 2.0 | 0.19 |
| 75-01-4 | Vinyl chloride | 0.50 | U | 0.50 | 0.22 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-12282-1
 SDG No.: _____
 Client Sample ID: MRC-SW6A-061312 Lab Sample ID: 240-12282-6
 Matrix: Water Lab File ID: UX932473.D
 Analysis Method: 8260B Date Collected: 06/13/2012 10:05
 Sample wt/vol: 5 (mL) Date Analyzed: 06/21/2012 23:36
 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.: 48405 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) | 90 | | 63-129 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 81 | | 66-117 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 88 | | 75-121 |
| 2037-26-5 | Toluene-d8 (Surr) | 88 | | 74-115 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton Job No.: 240-12282-1
SDG No.: _____
Client Sample ID: MRC-SW6A-061312 Lab Sample ID: 240-12282-6
Matrix: Water Lab File ID: UX932473.D
Analysis Method: 8260B Date Collected: 06/13/2012 10:05
Sample wt/vol: 5 (mL) Date Analyzed: 06/21/2012 23:36
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.: 48405 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---------|---------------------------------|----|--------|---|
| | Tentatively Identified Compound | | None | |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-12282-1

SDG No.: _____

Client Sample ID: MRC-SW6B-061312 Lab Sample ID: 240-12282-7

Matrix: Water Lab File ID: UX932474.D

Analysis Method: 8260B Date Collected: 06/13/2012 10:10

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2012 00:00

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.: 48405 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.: 240-12282-1

SDG No.: _____

Client Sample ID: MRC-SW6B-061312 Lab Sample ID: 240-12282-7

Matrix: Water Lab File ID: UX932474.D

Analysis Method: 8260B Date Collected: 06/13/2012 10:10

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2012 00:00

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.: 48405 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 | 5.0 | U | 5.0 | 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 | 0.63 | J | 1.0 | 0.17 |
| 75-69-4 | Trichlorofluoromethane | 1.0 | U | 1.0 | 0.21 |
| 108-05-4 | Vinyl acetate | 2.0 | U | 2.0 | 0.19 |
| 75-01-4 | Vinyl chloride | 0.50 | U | 0.50 | 0.22 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-12282-1
 SDG No.: _____
 Client Sample ID: MRC-SW6B-061312 Lab Sample ID: 240-12282-7
 Matrix: Water Lab File ID: UX932474.D
 Analysis Method: 8260B Date Collected: 06/13/2012 10:10
 Sample wt/vol: 5 (mL) Date Analyzed: 06/22/2012 00:00
 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.: 48405 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) | 82 | | 66-117 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 86 | | 75-121 |
| 2037-26-5 | Toluene-d8 (Surr) | 88 | | 74-115 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton Job No.: 240-12282-1
SDG No.: _____
Client Sample ID: MRC-SW6B-061312 Lab Sample ID: 240-12282-7
Matrix: Water Lab File ID: UX932474.D
Analysis Method: 8260B Date Collected: 06/13/2012 10:10
Sample wt/vol: 5 (mL) Date Analyzed: 06/22/2012 00:00
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.: 48405 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---------|---------------------------------|----|--------|---|
| | Tentatively Identified Compound | | None | |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-12282-1

SDG No.: _____

Client Sample ID: MRC-SW7A-061312 Lab Sample ID: 240-12282-8

Matrix: Water Lab File ID: UX932475.D

Analysis Method: 8260B Date Collected: 06/13/2012 10:30

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2012 00:24

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.: 48405 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.: 240-12282-1

SDG No.: _____

Client Sample ID: MRC-SW7A-061312 Lab Sample ID: 240-12282-8

Matrix: Water Lab File ID: UX932475.D

Analysis Method: 8260B Date Collected: 06/13/2012 10:30

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2012 00:24

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.: 48405 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 | 5.0 | U | 5.0 | 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-12282-1
 SDG No.: _____
 Client Sample ID: MRC-SW7A-061312 Lab Sample ID: 240-12282-8
 Matrix: Water Lab File ID: UX932475.D
 Analysis Method: 8260B Date Collected: 06/13/2012 10:30
 Sample wt/vol: 5 (mL) Date Analyzed: 06/22/2012 00:24
 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.: 48405 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) | 90 | | 63-129 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 82 | | 66-117 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 87 | | 75-121 |
| 2037-26-5 | Toluene-d8 (Surr) | 88 | | 74-115 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton Job No.: 240-12282-1
SDG No.: _____
Client Sample ID: MRC-SW7A-061312 Lab Sample ID: 240-12282-8
Matrix: Water Lab File ID: UX932475.D
Analysis Method: 8260B Date Collected: 06/13/2012 10:30
Sample wt/vol: 5 (mL) Date Analyzed: 06/22/2012 00:24
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.: 48405 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---------|---------------------------------|----|--------|---|
| | Tentatively Identified Compound | | None | |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-12282-1

SDG No.: _____

Client Sample ID: MRC-SW7B-061312 Lab Sample ID: 240-12282-9

Matrix: Water Lab File ID: UX932476.D

Analysis Method: 8260B Date Collected: 06/13/2012 10:40

Sample wt/vol: 5 (mL) Date Analyzed: 06/22/2012 00:48

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 48405 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.: 240-12282-1

SDG No.: _____

Client Sample ID: MRC-SW7B-061312 Lab Sample ID: 240-12282-9

Matrix: Water Lab File ID: UX932476.D

Analysis Method: 8260B Date Collected: 06/13/2012 10:40

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2012 00:48

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 48405 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 | 5.0 | U | 5.0 | 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 | 0.32 | J | 1.0 | 0.17 |
| 75-69-4 | Trichlorofluoromethane | 1.0 | U | 1.0 | 0.21 |
| 108-05-4 | Vinyl acetate | 2.0 | U | 2.0 | 0.19 |
| 75-01-4 | Vinyl chloride | 0.50 | U | 0.50 | 0.22 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-12282-1
 SDG No.: _____
 Client Sample ID: MRC-SW7B-061312 Lab Sample ID: 240-12282-9
 Matrix: Water Lab File ID: UX932476.D
 Analysis Method: 8260B Date Collected: 06/13/2012 10:40
 Sample wt/vol: 5 (mL) Date Analyzed: 06/22/2012 00:48
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 48405 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) | 91 | | 63-129 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 81 | | 66-117 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 90 | | 75-121 |
| 2037-26-5 | Toluene-d8 (Surr) | 89 | | 74-115 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton Job No.: 240-12282-1
SDG No.: _____
Client Sample ID: MRC-SW7B-061312 Lab Sample ID: 240-12282-9
Matrix: Water Lab File ID: UX932476.D
Analysis Method: 8260B Date Collected: 06/13/2012 10:40
Sample wt/vol: 5 (mL) Date Analyzed: 06/22/2012 00:48
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 48405 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---------|---------------------------------|----|--------|---|
| | Tentatively Identified Compound | | None | |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-12282-1

SDG No.: _____

Client Sample ID: MRC-SW8A-061312 Lab Sample ID: 240-12282-10

Matrix: Water Lab File ID: UX932477.D

Analysis Method: 8260B Date Collected: 06/13/2012 09:55

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2012 01:12

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.: 48405 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: <u>TestAmerica Canton</u> | Job No.: <u>240-12282-1</u> |
| SDG No.: _____ | |
| Client Sample ID: <u>MRC-SW8A-061312</u> | Lab Sample ID: <u>240-12282-10</u> |
| Matrix: <u>Water</u> | Lab File ID: <u>UX932477.D</u> |
| Analysis Method: <u>8260B</u> | Date Collected: <u>06/13/2012 09:55</u> |
| Sample wt/vol: <u>5(mL)</u> | Date Analyzed: <u>06/22/2012 01:12</u> |
| Soil Aliquot Vol: _____ | Dilution Factor: <u>1</u> |
| Soil Extract Vol.: _____ | GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u> |
| % Moisture: _____ | Level: (low/med) <u>Low</u> |
| Analysis Batch No.: <u>48405</u> | Units: <u>ug/L</u> |

| 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 | 5.0 | U | 5.0 | 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 | 0.66 | J | 1.0 | 0.17 |
| 75-69-4 | Trichlorofluoromethane | 1.0 | U | 1.0 | 0.21 |
| 108-05-4 | Vinyl acetate | 2.0 | U | 2.0 | 0.19 |
| 75-01-4 | Vinyl chloride | 0.50 | U | 0.50 | 0.22 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-12282-1
 SDG No.: _____
 Client Sample ID: MRC-SW8A-061312 Lab Sample ID: 240-12282-10
 Matrix: Water Lab File ID: UX932477.D
 Analysis Method: 8260B Date Collected: 06/13/2012 09:55
 Sample wt/vol: 5 (mL) Date Analyzed: 06/22/2012 01:12
 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.: 48405 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0 U | | 2.0 | 0.28 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 92 | | 63-129 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 82 | | 66-117 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 87 | | 75-121 |
| 2037-26-5 | Toluene-d8 (Surr) | 90 | | 74-115 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton Job No.: 240-12282-1
SDG No.: _____
Client Sample ID: MRC-SW8A-061312 Lab Sample ID: 240-12282-10
Matrix: Water Lab File ID: UX932477.D
Analysis Method: 8260B Date Collected: 06/13/2012 09:55
Sample wt/vol: 5 (mL) Date Analyzed: 06/22/2012 01:12
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.: 48405 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---------|---------------------------------|----|--------|---|
| | Tentatively Identified Compound | | None | |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-12282-1

SDG No.: _____

Client Sample ID: MRC-SW8B-061312 Lab Sample ID: 240-12282-11

Matrix: Water Lab File ID: UX932478.D

Analysis Method: 8260B Date Collected: 06/13/2012 10:00

Sample wt/vol: 5 (mL) Date Analyzed: 06/22/2012 01:36

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.: 48405 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.: 240-12282-1

SDG No.: _____

Client Sample ID: MRC-SW8B-061312 Lab Sample ID: 240-12282-11

Matrix: Water Lab File ID: UX932478.D

Analysis Method: 8260B Date Collected: 06/13/2012 10:00

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2012 01:36

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.: 48405 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 | 5.0 | U | 5.0 | 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 | 0.82 | J | 1.0 | 0.17 |
| 75-69-4 | Trichlorofluoromethane | 1.0 | U | 1.0 | 0.21 |
| 108-05-4 | Vinyl acetate | 2.0 | U | 2.0 | 0.19 |
| 75-01-4 | Vinyl chloride | 0.50 | U | 0.50 | 0.22 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-12282-1
 SDG No.: _____
 Client Sample ID: MRC-SW8B-061312 Lab Sample ID: 240-12282-11
 Matrix: Water Lab File ID: UX932478.D
 Analysis Method: 8260B Date Collected: 06/13/2012 10:00
 Sample wt/vol: 5 (mL) Date Analyzed: 06/22/2012 01:36
 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.: 48405 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) | 90 | | 63-129 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 80 | | 66-117 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 87 | | 75-121 |
| 2037-26-5 | Toluene-d8 (Surr) | 88 | | 74-115 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton Job No.: 240-12282-1
SDG No.: _____
Client Sample ID: MRC-SW8B-061312 Lab Sample ID: 240-12282-11
Matrix: Water Lab File ID: UX932478.D
Analysis Method: 8260B Date Collected: 06/13/2012 10:00
Sample wt/vol: 5 (mL) Date Analyzed: 06/22/2012 01:36
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.: 48405 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---------|---------------------------------|----|--------|---|
| | Tentatively Identified Compound | | None | |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-12282-1

SDG No.: _____

Client Sample ID: MRC-SW9A-061312 Lab Sample ID: 240-12282-12

Matrix: Water Lab File ID: UX932479.D

Analysis Method: 8260B Date Collected: 06/13/2012 10:15

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2012 02:00

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.: 48405 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.: 240-12282-1

SDG No.: _____

Client Sample ID: MRC-SW9A-061312 Lab Sample ID: 240-12282-12

Matrix: Water Lab File ID: UX932479.D

Analysis Method: 8260B Date Collected: 06/13/2012 10:15

Sample wt/vol: 5 (mL) Date Analyzed: 06/22/2012 02:00

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.: 48405 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 | 5.0 | U | 5.0 | 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 | 0.33 | J | 1.0 | 0.17 |
| 75-69-4 | Trichlorofluoromethane | 1.0 | U | 1.0 | 0.21 |
| 108-05-4 | Vinyl acetate | 2.0 | U | 2.0 | 0.19 |
| 75-01-4 | Vinyl chloride | 0.50 | U | 0.50 | 0.22 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-12282-1
 SDG No.: _____
 Client Sample ID: MRC-SW9A-061312 Lab Sample ID: 240-12282-12
 Matrix: Water Lab File ID: UX932479.D
 Analysis Method: 8260B Date Collected: 06/13/2012 10:15
 Sample wt/vol: 5 (mL) Date Analyzed: 06/22/2012 02:00
 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.: 48405 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0 | U | 2.0 | 0.28 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 92 | | 63-129 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 81 | | 66-117 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 90 | | 75-121 |
| 2037-26-5 | Toluene-d8 (Surr) | 88 | | 74-115 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton Job No.: 240-12282-1
SDG No.: _____
Client Sample ID: MRC-SW9A-061312 Lab Sample ID: 240-12282-12
Matrix: Water Lab File ID: UX932479.D
Analysis Method: 8260B Date Collected: 06/13/2012 10:15
Sample wt/vol: 5 (mL) Date Analyzed: 06/22/2012 02:00
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.: 48405 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---------|---------------------------------|----|--------|---|
| | Tentatively Identified Compound | | None | |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-12282-1

SDG No.: _____

Client Sample ID: MRC-SW9B-061312 Lab Sample ID: 240-12282-13

Matrix: Water Lab File ID: UX932480.D

Analysis Method: 8260B Date Collected: 06/13/2012 10:15

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2012 02:24

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.: 48405 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.: 240-12282-1

SDG No.: _____

Client Sample ID: MRC-SW9B-061312 Lab Sample ID: 240-12282-13

Matrix: Water Lab File ID: UX932480.D

Analysis Method: 8260B Date Collected: 06/13/2012 10:15

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2012 02:24

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.: 48405 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 | 5.0 | U | 5.0 | 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 | 0.34 | J | 1.0 | 0.17 |
| 75-69-4 | Trichlorofluoromethane | 1.0 | U | 1.0 | 0.21 |
| 108-05-4 | Vinyl acetate | 2.0 | U | 2.0 | 0.19 |
| 75-01-4 | Vinyl chloride | 0.50 | U | 0.50 | 0.22 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-12282-1
 SDG No.: _____
 Client Sample ID: MRC-SW9B-061312 Lab Sample ID: 240-12282-13
 Matrix: Water Lab File ID: UX932480.D
 Analysis Method: 8260B Date Collected: 06/13/2012 10:15
 Sample wt/vol: 5 (mL) Date Analyzed: 06/22/2012 02:24
 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.: 48405 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) | 91 | | 63-129 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 81 | | 66-117 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 89 | | 75-121 |
| 2037-26-5 | Toluene-d8 (Surr) | 89 | | 74-115 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton Job No.: 240-12282-1
SDG No.: _____
Client Sample ID: MRC-SW9B-061312 Lab Sample ID: 240-12282-13
Matrix: Water Lab File ID: UX932480.D
Analysis Method: 8260B Date Collected: 06/13/2012 10:15
Sample wt/vol: 5 (mL) Date Analyzed: 06/22/2012 02:24
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.: 48405 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---------|---------------------------------|----|--------|---|
| | Tentatively Identified Compound | | None | |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

| | |
|-------------------------------------|--|
| Lab Name: <u>TestAmerica Canton</u> | Job No.: <u>240-12282-1</u> |
| SDG No.: _____ | |
| Client Sample ID: <u>TB-061312</u> | Lab Sample ID: <u>240-12282-14</u> |
| Matrix: <u>Water</u> | Lab File ID: <u>UX932481.D</u> |
| Analysis Method: <u>8260B</u> | Date Collected: <u>06/13/2012 00:00</u> |
| Sample wt/vol: <u>5(mL)</u> | Date Analyzed: <u>06/22/2012 02:48</u> |
| Soil Aliquot Vol: _____ | Dilution Factor: <u>1</u> |
| Soil Extract Vol.: _____ | GC Column: <u>DB-624</u> ID: <u>0.18(mm)</u> |
| % Moisture: _____ | Level: (low/med) <u>Low</u> |
| Analysis Batch No.: <u>48405</u> | Units: <u>ug/L</u> |

| 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.: 240-12282-1

SDG No.: _____

Client Sample ID: TB-061312 Lab Sample ID: 240-12282-14

Matrix: Water Lab File ID: UX932481.D

Analysis Method: 8260B Date Collected: 06/13/2012 00:00

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2012 02:48

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 48405 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 | 5.0 | U | 5.0 | 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-12282-1
SDG No.: _____
Client Sample ID: TB-061312 Lab Sample ID: 240-12282-14
Matrix: Water Lab File ID: UX932481.D
Analysis Method: 8260B Date Collected: 06/13/2012 00:00
Sample wt/vol: 5(mL) Date Analyzed: 06/22/2012 02:48
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 48405 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) | 80 | | 66-117 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 88 | | 75-121 |
| 2037-26-5 | Toluene-d8 (Surr) | 89 | | 74-115 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Canton Job No.: 240-12282-1
SDG No.: _____
Client Sample ID: TB-061312 Lab Sample ID: 240-12282-14
Matrix: Water Lab File ID: UX932481.D
Analysis Method: 8260B Date Collected: 06/13/2012 00:00
Sample wt/vol: 5(mL) Date Analyzed: 06/22/2012 02:48
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 48405 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---------|---------------------------------|----|--------|---|
| | Tentatively Identified Compound | | None | |

Appendix C

Support Documentation

CASE NARRATIVE

Client: Tetra Tech, Inc

Project: MRC Surface Water

Report Number: 240-12282-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

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

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 06/14/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 1.2 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MRC-SW1A-061312 (240-12282-1), MRC-SW2A-061312 (240-12282-2), MRC-SW5A1-061312 (240-12282-3), MRC-SW5A2-061312 (240-12282-4), MRC-SW5B-061312 (240-12282-5), MRC-SW6A-061312 (240-12282-6), MRC-SW6B-061312 (240-12282-7), MRC-SW7A-061312 (240-12282-8), MRC-SW7B-061312 (240-12282-9), MRC-SW8A-061312 (240-12282-10), MRC-SW8B-061312 (240-12282-11), MRC-SW9A-061312 (240-12282-12), MRC-SW9B-061312 (240-12282-13) and TB-061312 (240-12282-14) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 06/21/2012 and 06/22/2012.

The laboratory control sample (LCS) for batch 48405 exceeded control limits for the following analytes: 4-methyl-2-pentanone, 2-hexanone, and 2-butanone. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The laboratory control sample (LCS) for batch 48405 exceeded control limits for the following analyte: 2-methyl-2-propanol. This analyte has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. The results have been reported and qualified.

2-Chloroethyl vinyl ether failed the recovery criteria low for the MS/MSD of sample 240-12358-2 in batch 240-48405.

No other difficulties were encountered during the VOCs analyses.

All other 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.

| | | | | | |
|---|-------------|---|-------------|---------------------------------|---------------------|
| Project Manager: Tony Apanavage Tel/Fax: 301-233-8230 (cell) | | Site Contact: Tony Apanavage Lab Contact: Pat Omeara | | Date: 6/13/12 Carrier: Fedex | COC No: 1 of 2 COCs |
| Client Contact | | Analysis Turnaround Time | | Job No. | |
| Calendar (C) or Work Days (W) | | TAT if different from Below | | SDG No. | |
| <input type="checkbox"/> 2 weeks | | <input type="checkbox"/> 2 weeks | | Sampler: | |
| <input type="checkbox"/> 1 week | | <input type="checkbox"/> 1 week | | Sample Specific Notes: | |
| <input type="checkbox"/> 2 days | | <input type="checkbox"/> 2 days | | | |
| <input type="checkbox"/> 1 day | | <input type="checkbox"/> 1 day | | | |
| Sample Identification | Sample Date | Sample Time | Sample Type | Matrix | # of Cont. |
| MRC-SW1A-061312 | 6/13/2012 | 0910 | SW | Water | 3 |
| MRC-SW2A-061312 | 6/13/2012 | 0920 | SW | Water | 3 |
| MRC-SW3A1-061312 | 6/13/2012 | 0934 | SW | Water | 3 |
| MRC-SW3A2-061312 | 6/13/2012 | 0930 | SW | Water | 3 |
| MRC-SW3B-061312 | 6/13/2012 | 0945 | SW | Water | 3 |
| MRC-SW6A-061312 | 6/13/2012 | 1005 | SW | Water | 3 |
| MRC-SW6B-061312 | 6/13/2012 | 1010 | SW | Water | 3 |
| MRC-SW7A-061312 | 6/13/2012 | 1030 | SW | Water | 3 |
| MRC-SW7B-061312 | 6/13/2012 | 1040 | SW | Water | 3 |
| MRC-SW8A-061312 | 6/13/2012 | 0955 | SW | Water | 3 |
| MRC-SW8B-061312 | 6/13/2012 | 1000 | SW | Water | 3 |
| MRC-SW9A-061312 | 6/13/2012 | 1015 | SW | Water | 3 |

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

Special Instructions/QC Requirements & Comments:

| | | | | | |
|------------------------------|--------------------|-------------------------|--------------------------|--------------------|------------------------|
| Relinquished by: [Signature] | Company: Tera Tech | Date/Time: 6/13/12-1145 | Received by: [Signature] | Company: Tera Tech | Date/Time: 6-14-12 900 |
| Relinquished by: | Company: | Date/Time: | Received by: | Company: | Date/Time: |
| Relinquished by: | Company: | Date/Time: | Received by: | Company: | Date/Time: |

Chain of Custody Record

TestAmerica Laboratories, Inc.

[illegible]

TestAmerica North Canton Sample Receipt Form/Narrative

Login # : 12282

Client Tetra Tech Site Name _____ By: [Signature]
 Cooler Received on 6-14-12 Opened on 6-14-12 (Signature)
 FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____
 TestAmerica Cooler # _____ Foam Box Client Cooler Box Other _____
 Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
 COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# 1 (CF 0°C) Observed Sample Temp. 1.2 °C Corrected Sample Temp. 1.2 °C
 IR GUN# 4G (CF -1°C) Observed Sample Temp. _____ °C Corrected Sample Temp. _____ °C
 IR GUN# 5G (CF -1°C) Observed Sample Temp. _____ °C Corrected Sample Temp. _____ °C

Multiple
on Back

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 ☒ Yes No
 -Were custody seals on the outside of the cooler(s) signed & dated? ☒ Yes No NA
 -Were custody seals on the bottle(s)? ☒ Yes ☒ No
 3. Shippers' packing slip attached to the cooler(s)? ☒ Yes No
 4. Did custody papers accompany the sample(s)? ☒ Yes No
 5. Were the custody papers relinquished & signed in the appropriate place? ☒ Yes No
 6. Did all bottles arrive in good condition (Unbroken)? ☒ Yes No
 7. Could all bottle labels be reconciled with the COC? ☒ Yes No
 8. Were correct bottle(s) used for the test(s) indicated? ☒ Yes No
 9. Sufficient quantity received to perform indicated analyses? ☒ Yes No
 10. Were sample(s) at the correct pH upon receipt? Yes No ☒ NA
 11. Were VOAs on the COC? ☒ Yes No
 12. Were air bubbles >6 mm in any VOA vials? Yes ☒ No NA
 13. Was a trip blank present in the cooler(s)? ☒ Yes No

Contacted PM PJO Date 6-14-12 by MS via Verbal Voice Mail Other
 Concerning #14

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

MRL-SWAB-061312 COC = time of 1015 Bottle = 1021.
will log per COC.

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.
 Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

Login Sample Receipt Checklist

Client: Tetra Tech, Inc

Job Number: 240-12282-1

Login Number: 12282

List Source: TestAmerica Canton

List Number: 1

Creator: Sutek, Nick

| Question | Answer | Comment |
|--|--------|---------|
| Radioactivity either was not measured or, if measured, is at or below background | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the sample IDs on the containers and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

SAMPLE SUMMARY

Client: Tetra Tech, Inc

Job Number: 240-12282-1

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|----------------|------------------|---------------|----------------------|-----------------------|
| 240-12282-1 | MRC-SW1A-061312 | Water | 06/13/2012 0910 | 06/14/2012 0900 |
| 240-12282-2 | MRC-SW2A-061312 | Water | 06/13/2012 0920 | 06/14/2012 0900 |
| 240-12282-3 | MRC-SW5A1-061312 | Water | 06/13/2012 0934 | 06/14/2012 0900 |
| 240-12282-4 | MRC-SW5A2-061312 | Water | 06/13/2012 0950 | 06/14/2012 0900 |
| 240-12282-5 | MRC-SW5B-061312 | Water | 06/13/2012 0945 | 06/14/2012 0900 |
| 240-12282-6 | MRC-SW6A-061312 | Water | 06/13/2012 1005 | 06/14/2012 0900 |
| 240-12282-7 | MRC-SW6B-061312 | Water | 06/13/2012 1010 | 06/14/2012 0900 |
| 240-12282-8 | MRC-SW7A-061312 | Water | 06/13/2012 1030 | 06/14/2012 0900 |
| 240-12282-9 | MRC-SW7B-061312 | Water | 06/13/2012 1040 | 06/14/2012 0900 |
| 240-12282-10 | MRC-SW8A-061312 | Water | 06/13/2012 0955 | 06/14/2012 0900 |
| 240-12282-11 | MRC-SW8B-061312 | Water | 06/13/2012 1000 | 06/14/2012 0900 |
| 240-12282-12 | MRC-SW9A-061312 | Water | 06/13/2012 1015 | 06/14/2012 0900 |
| 240-12282-13 | MRC-SW9B-061312 | Water | 06/13/2012 1015 | 06/14/2012 0900 |
| 240-12282-14TB | TB-061312 | Water | 06/13/2012 0000 | 06/14/2012 0900 |

METHOD SUMMARY

Client: Tetra Tech, Inc

Job Number: 240-12282-1

| Description | | Lab Location | Method | Preparation Method |
|------------------------------|-------|--------------|-------------|--------------------|
| Matrix | Water | | | |
| Volatile Priority Pollutants | | TAL NC | SW846 8260B | |
| Purge and Trap | | TAL NC | | SW846 5030B |

Lab References:

TAL NC = TestAmerica Canton

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

HOLD TIME

SDG 240-12282-1

| SORT | UNITS | NSAMPLE | LAB ID | QC TYPE | SAMP DATE | EXTR DATE | ANAL DATE | SMP EXTR | EXTR ANL | SMP ANL |
|-------------|--------------|------------------|---------------|----------------|------------------|------------------|------------------|-----------------|-----------------|----------------|
| OV | UG/L | TB-061312 | 240-12282-14 | NM | 6/13/2012 | 6/22/2012 | 6/22/2012 | 9 | 0 | 9 |
| OV | UG/L | MRC-SW9B-061312 | 240-12282-13 | NM | 6/13/2012 | 6/22/2012 | 6/22/2012 | 9 | 0 | 9 |
| OV | UG/L | MRC-SW9A-061312 | 240-12282-12 | NM | 6/13/2012 | 6/22/2012 | 6/22/2012 | 9 | 0 | 9 |
| OV | UG/L | MRC-SW8B-061312 | 240-12282-11 | NM | 6/13/2012 | 6/22/2012 | 6/22/2012 | 9 | 0 | 9 |
| OV | UG/L | MRC-SW8A-061312 | 240-12282-10 | NM | 6/13/2012 | 6/22/2012 | 6/22/2012 | 9 | 0 | 9 |
| OV | UG/L | MRC-SW7B-061312 | 240-12282-9 | NM | 6/13/2012 | 6/22/2012 | 6/22/2012 | 9 | 0 | 9 |
| OV | UG/L | MRC-SW7A-061312 | 240-12282-8 | NM | 6/13/2012 | 6/22/2012 | 6/22/2012 | 9 | 0 | 9 |
| OV | UG/L | MRC-SW6B-061312 | 240-12282-7 | NM | 6/13/2012 | 6/22/2012 | 6/22/2012 | 9 | 0 | 9 |
| OV | UG/L | MRC-SW6A-061312 | 240-12282-6 | NM | 6/13/2012 | 6/21/2012 | 6/21/2012 | 8 | 0 | 8 |
| OV | UG/L | MRC-SW5B-061312 | 240-12282-5 | NM | 6/13/2012 | 6/21/2012 | 6/21/2012 | 8 | 0 | 8 |
| OV | UG/L | MRC-SW5A2-061312 | 240-12282-4 | NM | 6/13/2012 | 6/21/2012 | 6/21/2012 | 8 | 0 | 8 |
| OV | UG/L | MRC-SW5A1-061312 | 240-12282-3 | NM | 6/13/2012 | 6/21/2012 | 6/21/2012 | 8 | 0 | 8 |
| OV | UG/L | MRC-SW2A-061312 | 240-12282-2 | NM | 6/13/2012 | 6/21/2012 | 6/21/2012 | 8 | 0 | 8 |
| OV | UG/L | MRC-SW1A-061312 | 240-12282-1 | NM | 6/13/2012 | 6/21/2012 | 6/21/2012 | 8 | 0 | 8 |

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-12282-1
SDG No.: _____
Lab File ID: BFB1885.D BFB Injection Date: 10/31/2011
Instrument ID: A3UX9 BFB Injection Time: 17:28
Analysis Batch No.: 21323

| 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 | 49.0 |
| 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 | 0.2 (0.3) 1 |
| 174 | 50.0 - 120.00 % of mass 95 | 91.5 |
| 175 | 5.0 - 9.0 % of mass 174 | 6.9 (7.5) 1 |
| 176 | 95.0 - 101.0 % of mass 174 | 89.5 (97.8) 1 |
| 177 | 5.0 - 9.0 % of mass 176 | 5.4 (6.0) 2 |

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|------------------|---------------------|-------------|---------------|---------------|
| | STD8260 240-21323/3 | UX90533.D | 10/31/2011 | 17:54 |
| | STD8260 240-21323/4 | UX90534.D | 10/31/2011 | 18:18 |
| | STD8260 240-21323/5 | UX90535.D | 10/31/2011 | 18:42 |
| | STD8260 240-21323/6 | UX90536.D | 10/31/2011 | 19:06 |
| | STD8260 240-21323/7 | UX90537.D | 10/31/2011 | 19:31 |
| | STD8260 240-21323/8 | UX90538.D | 10/31/2011 | 19:56 |
| | STDA9 240-21323/9 | UX90539.D | 10/31/2011 | 20:23 |
| | STDA9 240-21323/10 | UX90540.D | 10/31/2011 | 20:47 |
| | STDA9 240-21323/11 | UX90541.D | 10/31/2011 | 21:13 |
| | STDA9 240-21323/12 | UX90542.D | 10/31/2011 | 21:40 |
| | STDA9 240-21323/13 | UX90543.D | 10/31/2011 | 22:06 |
| | ICV 240-21323/15 | UX90545.D | 10/31/2011 | 22:56 |

FORM VI

GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton

Job No.: 240-12282-1

Analy Batch No.: 21323

SDG No.:

Instrument ID: A3UX9

GC Column: DB-624 ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 10/31/2011 17:54

Calibration End Date: 10/31/2011 19:56

Calibration ID: 4930

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---------|---------------------|--------------|
| Level 1 | STD8260 240-21323/3 | UX90533.D |
| Level 2 | STD8260 240-21323/4 | UX90534.D |
| Level 3 | STD8260 240-21323/5 | UX90535.D |
| Level 4 | STD8260 240-21323/6 | UX90536.D |
| Level 5 | STD8260 240-21323/7 | UX90537.D |
| Level 6 | STD8260 240-21323/8 | UX90538.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 | LVL 6 | | B | M1 | M2 | | | | | | | | |
| Dichlorodifluoromethane | 0.3390 | 0.2710 | 0.3417 | 0.3101 | 0.3551 | Ave | | 0.3234 | | | | 10.0 | | 15.0 | | | | |
| Chloromethane | 0.3309 0.2413 | 0.2541 | 0.2729 | 0.2519 | 0.2603 | Ave | | 0.2686 | | | 0.1000 | 12.0 | | 15.0 | | | | |
| Vinyl chloride | 0.3487 0.3244 | 0.2738 | 0.3361 | 0.3160 | 0.3338 | Ave | | 0.3221 | | | | 8.1 | | 15.0 | | | | |
| Bromomethane | 0.2527 | 0.2238 | 0.2151 | 0.2078 | 0.2396 | Ave | | 0.2278 | | | | 8.0 | | 15.0 | | | | |
| Chloroethane | 0.2034 0.2186 | 0.1949 | 0.1967 | 0.1921 | 0.2080 | Ave | | 0.2023 | | | | 4.9 | | 15.0 | | | | |
| Trichlorofluoromethane | 0.4421 0.5020 | 0.3818 | 0.4752 | 0.4492 | 0.5060 | Ave | | 0.4594 | | | | 10.0 | | 15.0 | | | | |
| Acrolein | 0.0364 0.0346 | 0.0378 | 0.0323 | 0.0315 | 0.0348 | Ave | | 0.0346 | | | | 7.0 | | 15.0 | | | | |
| 1,1,2-Trichloro-1,2,2-trichloroethane | 0.2696 0.2998 | 0.3057 | 0.2575 | 0.2851 | 0.3109 | Ave | | 0.2881 | | | | 7.4 | | 15.0 | | | | |
| 1,1-Dichloroethene | 0.3979 0.4703 | 0.4327 | 0.4309 | 0.4463 | 0.4763 | Ave | | 0.4424 | | | | 6.5 | | 15.0 | | | | |
| Acetone | 0.0611 | 0.1756 | 0.0648 | 0.0591 | 0.0637 | Lin1 | 0.2185 | 0.0589 | | | | | | 0.9980 | | | | 0.9900 |
| Iodomethane | 0.5315 0.4974 | 0.5204 | 0.4748 | 0.4757 | 0.5146 | Ave | | 0.5024 | | | | 4.7 | | 15.0 | | | | |
| Carbon disulfide | 0.8416 0.8810 | 0.7973 | 0.8113 | 0.8250 | 0.8958 | Ave | | 0.8420 | | | | 4.6 | | 15.0 | | | | |
| Acetonitrile | 0.0225 | 0.0344 | 0.0236 | 0.0230 | 0.0241 | Lin1 | 0.1158 | 0.0228 | | | | | | 0.9990 | | | | 0.9900 |
| Methyl acetate | 0.2387 0.1523 | 0.2112 | 0.1491 | 0.1458 | 0.1518 | Lin1 | 0.0937 | 0.1499 | | | | | | 0.9990 | | | | 0.9900 |
| Methylene Chloride | 0.3116 | 0.4294 | 0.3208 | 0.3027 | 0.3211 | Ave | | 0.3371 | | | | 15.0 | | 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.: 240-12282-1

Analy Batch No.: 21323

SDG No.:

Instrument ID: A3UX9

GC Column: DB-624 ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 10/31/2011 17:54

Calibration End Date: 10/31/2011 19:56

Calibration ID: 4930

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R ² OR COD | # | MIN R ² OR COD |
|--------------------------|------------------|--------|--------|--------|--------|------------|-------------|--------|----|---|---------|------|---|----------|-----------------------|--------|---------------------------|
| | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| tert-Butyl alcohol | 0.0223 0.0201 | 0.0204 | 0.0198 | 0.0205 | 0.0207 | Ave | | 0.0206 | | | | 4.3 | | 15.0 | | | |
| Acrylonitrile | 0.1040 0.0825 | 0.0840 | 0.0773 | 0.0785 | 0.0863 | Ave | | 0.0855 | | | | 11.0 | | 15.0 | | | |
| Methyl tert-butyl ether | 0.8969 0.8168 | 0.7950 | 0.7443 | 0.7529 | 0.8161 | Ave | | 0.8037 | | | | 6.9 | | 15.0 | | | |
| trans-1,2-Dichloroethene | 0.3403 0.3336 | 0.3430 | 0.3150 | 0.3132 | 0.3416 | Ave | | 0.3311 | | | | 4.1 | | 15.0 | | | |
| Hexane | 0.2417 0.2224 | 0.1870 | 0.1716 | 0.1933 | 0.2245 | Ave | | 0.2068 | | | | 13.0 | | 15.0 | | | |
| 1,1-Dichloroethane | 0.4348 0.4017 | 0.4325 | 0.3876 | 0.3724 | 0.4247 | Ave | | 0.4089 | | | 0.1000 | 6.3 | | 15.0 | | | |
| Vinyl acetate | 0.0589 | 0.0668 | 0.0513 | 0.0513 | 0.0588 | Ave | | 0.0574 | | | | 11.0 | | 15.0 | | | |
| cis-1,2-Dichloroethene | 0.3975 0.3416 | 0.4035 | 0.3352 | 0.3211 | 0.3433 | Ave | | 0.3570 | | | | 9.7 | | 15.0 | | | |
| 2,2-Dichloropropane | 0.1478 0.1868 | 0.1914 | 0.1812 | 0.1818 | 0.1955 | Ave | | 0.1807 | | | | 9.4 | | 15.0 | | | |
| 2-Butanone | 0.0601 0.0292 | 0.0557 | 0.0284 | 0.0271 | 0.0301 | Lin1 | 0.0367 | 0.0287 | | | | | | 0.9970 | | 0.9900 | |
| Bromochloromethane | 0.2012 0.1778 | 0.1820 | 0.1751 | 0.1701 | 0.1808 | Ave | | 0.1812 | | | | 5.9 | | 15.0 | | | |
| Tetrahydrofuran | 0.0540 | 0.0755 | 0.0514 | 0.0536 | 0.0560 | Lin1 | 0.0178 | 0.0539 | | | | | | 0.9990 | | 0.9900 | |
| Chloroform | 0.4760 0.4722 | 0.5039 | 0.4450 | 0.4408 | 0.4828 | Ave | | 0.4701 | | | | 5.1 | | 15.0 | | | |
| 1,1,1-Trichloroethane | 0.2653 0.3260 | 0.3068 | 0.3000 | 0.3064 | 0.3412 | Ave | | 0.3076 | | | | 8.4 | | 15.0 | | | |
| Cyclohexane | 0.2973 0.3295 | 0.3255 | 0.2739 | 0.3097 | 0.3406 | Ave | | 0.3128 | | | | 7.8 | | 15.0 | | | |
| 1,1-Dichloropropene | 0.2900 0.3508 | 0.3131 | 0.3230 | 0.3300 | 0.3585 | Ave | | 0.3276 | | | | 7.7 | | 15.0 | | | |
| Carbon tetrachloride | 0.2782 0.3033 | 0.2251 | 0.2426 | 0.2597 | 0.3074 | Ave | | 0.2694 | | | | 12.0 | | 15.0 | | | |
| Benzene | 1.0923 1.0786 | 1.0399 | 0.9973 | 0.9919 | 1.0933 | Ave | | 1.0489 | | | | 4.4 | | 15.0 | | | |
| 1,2-Dichloroethane | 0.3333 0.3712 | 0.3708 | 0.3544 | 0.3455 | 0.3787 | Ave | | 0.3590 | | | | 4.9 | | 15.0 | | | |
| Trichloroethene | 0.3200 0.3201 | 0.3116 | 0.2861 | 0.2918 | 0.3281 | Ave | | 0.3096 | | | | 5.5 | | 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.: 240-12282-1 Analy Batch No.: 21323

SDG No.:

Instrument ID: A30X9 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/31/2011 17:54 Calibration End Date: 10/31/2011 19:56 Calibration ID: 4930

| 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 | 0.2138 0.2232 | 0.2300 | 0.1825 | 0.1962 | 0.2273 | | 0.2122 | | | 9.0 | | 15.0 | | | |
| 1,2-Dichloropropane | 0.2498 0.2294 | 0.2445 | 0.2178 | 0.2127 | 0.2352 | | 0.2316 | | | 6.3 | | 15.0 | | | |
| 1,4-Dioxane | 0.0030 0.0033 | 0.0036 | 0.0028 | 0.0032 | 0.0034 | | 0.0032 | | | 8.9 | | 15.0 | | | |
| Dibromomethane | 0.2050 0.2017 | 0.2069 | 0.1892 | 0.1928 | 0.2042 | | 0.2000 | | | 3.6 | | 15.0 | | | |
| Bromodichloromethane | 0.3667 0.3518 | 0.3341 | 0.3135 | 0.3134 | 0.3590 | | 0.3397 | | | 6.8 | | 15.0 | | | |
| 2-Chloroethyl vinyl ether | 0.1440 0.1556 | 0.1368 | 0.1379 | 0.1388 | 0.1564 | | 0.1449 | | | 6.2 | | 15.0 | | | |
| cis-1,3-Dichloropropene | 0.4189 0.4224 | 0.3875 | 0.3706 | 0.3848 | 0.4207 | | 0.4008 | | | 5.6 | | 15.0 | | | |
| 4-Methyl-2-pentanone | 0.1738 0.1852 | 0.1915 | 0.1651 | 0.1686 | 0.1854 | | 0.1783 | | | 5.9 | | 15.0 | | | |
| Toluene | 1.4095 1.5939 | 1.5091 | 1.4133 | 1.3801 | 1.6344 | | 1.4901 | | | 7.1 | | 15.0 | | | |
| trans-1,3-Dichloropropene | 0.4373 0.4977 | 0.4575 | 0.4244 | 0.4187 | 0.5077 | | 0.4572 | | | 8.3 | | 15.0 | | | |
| Ethyl methacrylate | 0.3084 0.4243 | 0.3048 | 0.3435 | 0.3467 | 0.4264 | | 0.3590 | | | 15.0 | | 15.0 | | | |
| 1,1,2-Trichloroethane | 0.2971 0.3080 | 0.3160 | 0.2891 | 0.2802 | 0.3187 | | 0.3015 | | | 5.1 | | 15.0 | | | |
| Tetrachloroethene | 0.3898 0.3915 | 0.3934 | 0.3602 | 0.3579 | 0.4104 | | 0.3839 | | | 5.4 | | 15.0 | | | |
| 1,3-Dichloropropane | 0.5924 0.5397 | 0.5249 | 0.4934 | 0.4903 | 0.5550 | | 0.5326 | | | 7.3 | | 15.0 | | | |
| 2-Hexanone | 0.1485 0.1621 | 0.1403 | 0.1437 | 0.1434 | 0.1610 | | 0.1498 | | | 6.3 | | 15.0 | | | |
| Dibromochloromethane | 0.3196 0.3334 | 0.3235 | 0.2999 | 0.3051 | 0.3589 | | 0.3280 | | | 8.0 | | 15.0 | | | |
| 1,2-Dibromoethane | 0.3286 0.3334 | 0.3057 | 0.3097 | 0.2965 | 0.3401 | | 0.3190 | | | 5.5 | | 15.0 | | | |
| Chlorobenzene | 1.1239 1.0602 | 1.0840 | 0.9894 | 0.9479 | 1.1016 | | 1.0512 | | 0.3000 | 6.5 | | 15.0 | | | |
| 1,1,1,2-Tetrachloroethane | 0.3646 0.3655 | 0.3523 | 0.3189 | 0.3012 | 0.3660 | | 0.3448 | | | 8.1 | | 15.0 | | | |
| Ethylbenzene | 0.5177 0.5585 | 0.5185 | 0.4880 | 0.4922 | 0.5758 | | 0.5251 | | | 6.7 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-12282-1 Analy Batch No.: 21323

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/31/2011 17:54 Calibration End Date: 10/31/2011 19:56 Calibration ID: 4930

| 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 | 0.6173 0.7252 | 0.5777 | 0.5995 | 0.6235 | 0.7323 | | 0.6459 | | | 10.0 | | 15.0 | | | |
| o-Xylene | 0.6556 0.6901 | 0.6525 | 0.5960 | 0.6016 | 0.7039 | | 0.6499 | | | 6.8 | | 15.0 | | | |
| Styrene | 1.0127 1.2749 | 0.9778 | 1.0316 | 1.0480 | 1.2606 | | 1.1009 | | | 12.0 | | 15.0 | | | |
| Bromoform | 0.2505 | 0.2402 | 0.1990 | 0.1991 | 0.2455 | | 0.2269 | | 0.1000 | 11.0 | | 15.0 | | | |
| Isopropylbenzene | 1.3564 1.7000 | 1.4302 | 1.3843 | 1.4096 | 1.7113 | | 1.4986 | | | 11.0 | | 15.0 | | | |
| 1,1,2,2-Tetrachloroethane | 0.7245 0.7349 | 0.7831 | 0.6781 | 0.6682 | 0.7218 | | 0.7184 | | 0.3000 | 5.8 | | 15.0 | | | |
| Bromobenzene | 0.8308 0.8694 | 0.8715 | 0.8204 | 0.7857 | 0.8579 | | 0.8393 | | | 4.0 | | 15.0 | | | |
| 1,2,3-Trichloropropane | 0.3124 0.2758 | 0.2973 | 0.2604 | 0.2622 | 0.2695 | | 0.2796 | | | 7.5 | | 15.0 | | | |
| trans-1,4-Dichloro-2-butene | 0.2092 | 0.2294 | 0.1687 | 0.1738 | 0.1950 | | 0.1952 | | | 13.0 | | 15.0 | | | |
| n-Propylbenzene | 0.8440 0.7863 | 0.7178 | 0.6672 | 0.7080 | 0.7912 | | 0.7524 | | | 8.7 | | 15.0 | | | |
| 2-Chlorotoluene | 0.7963 0.7319 | 0.6561 | 0.6857 | 0.6545 | 0.7378 | | 0.7104 | | | 7.8 | | 15.0 | | | |
| 1,3,5-Trimethylbenzene | 2.1800 2.4917 | 2.0710 | 2.0946 | 2.1358 | 2.3994 | | 2.2288 | | | 7.8 | | 15.0 | | | |
| 4-Chlorotoluene | 0.8013 0.8068 | 0.8052 | 0.7272 | 0.7067 | 0.8006 | | 0.7747 | | | 5.8 | | 15.0 | | | |
| tert-Butylbenzene | 2.0433 2.1733 | 1.9376 | 1.8420 | 1.8666 | 2.1382 | | 2.0002 | | | 7.0 | | 15.0 | | | |
| 1,2,4-Trimethylbenzene | 2.5517 2.6031 | 2.3472 | 2.2230 | 2.2538 | 2.5289 | | 2.4179 | | | 6.8 | | 15.0 | | | |
| sec-Butylbenzene | 2.2182 2.9174 | 2.4377 | 2.4133 | 2.4683 | 2.8067 | | 2.5436 | | | 10.0 | | 15.0 | | | |
| 1,3-Dichlorobenzene | 1.6128 1.5994 | 1.5213 | 1.4402 | 1.4239 | 1.5593 | | 1.5262 | | | 5.2 | | 15.0 | | | |
| p-Isopropyltoluene | 2.1072 2.6401 | 2.0613 | 2.1269 | 2.1814 | 2.5122 | | 2.2715 | | | 11.0 | | 15.0 | | | |
| 1,4-Dichlorobenzene | 1.8181 1.6665 | 1.7273 | 1.5228 | 1.4692 | 1.6446 | | 1.6414 | | | 7.8 | | 15.0 | | | |
| n-Butylbenzene | 1.6760 2.1173 | 1.6481 | 1.6886 | 1.7568 | 2.0629 | | 1.8249 | | | 11.0 | | 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.: 240-12282-1 Analy Batch No.: 21323

SDG No.: _____

Instrument ID: A30X9 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/31/2011 17:54 Calibration End Date: 10/31/2011 19:56 Calibration ID: 4930

| ANALYTE | LVL | | | RRF | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|------------------------------|------------------|--------|--------|--------|--------|-------|------------|-------------|--------|----|---|---------|------|---|----------|------------|---|----------------|
| | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 6 | | B | M1 | M2 | | | | | | | | |
| 1,2-Dichlorobenzene | 1.5662 1.5704 | 1.5759 | 1.4489 | 1.4088 | 1.5415 | | Ave | | 1.5186 | | | | 4.7 | | 15.0 | | | |
| 1,2-Dibromo-3-Chloropropane | | 0.2017 | 0.1517 | 0.1601 | 0.1652 | | Ave | | 0.1721 | | | | 12.0 | | 15.0 | | | |
| 1,3,5-Trichlorobenzene | 1.2400 1.0468 | 1.0697 | 0.9519 | 0.9236 | 1.0306 | | Ave | | 1.0438 | | | | 11.0 | | 15.0 | | | |
| 1,2,4-Trichlorobenzene | 1.0289 0.9740 | 1.1397 | 0.9100 | 0.8611 | 0.9225 | | Ave | | 0.9727 | | | | 10.0 | | 15.0 | | | |
| Hexachlorobutadiene | 0.6003 0.4138 | 0.4429 | 0.4030 | 0.3757 | 0.4046 | | Lin1 | 0.0683 | 0.4037 | | | | | | | 0.9990 | | 0.9900 |
| Naphthalene | 2.6756 2.7639 | 2.6504 | 2.4577 | 2.4326 | 2.4612 | | Ave | | 2.5736 | | | | 5.5 | | 15.0 | | | |
| 1,2,3-Trichlorobenzene | 1.0287 0.8202 | 0.9418 | 0.8493 | 0.8041 | 0.7635 | | Ave | | 0.8679 | | | | 11.0 | | 15.0 | | | |
| Dibromofluoromethane (Surr) | | 0.3226 | 0.2605 | 0.2478 | 0.2828 | | Ave | | 0.2769 | | | | 10.0 | | 15.0 | | | |
| 1,2-Dichloroethane-d4 (Surr) | | 0.4022 | 0.3027 | 0.2976 | 0.3246 | | Ave | | 0.3301 | | | | 13.0 | | 15.0 | | | |
| Toluene-d8 (Surr) | 1.4118 | 1.5148 | 1.2827 | 1.2098 | 1.4431 | | Ave | | 1.3724 | | | | 9.0 | | 15.0 | | | |
| 4-Bromofluorobenzene (Surr) | 0.5221 | 0.5936 | 0.4756 | 0.4578 | 0.5478 | | Ave | | 0.5194 | | | | 11.0 | | 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.: 240-12282-1 Analy Batch No.: 21323

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/31/2011 20:23 Calibration End Date: 10/31/2011 22:06 Calibration ID: 4933

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---------|--------------------|--------------|
| Level 1 | STDA9 240-21323/9 | UX90539.D |
| Level 2 | STDA9 240-21323/10 | UX90540.D |
| Level 3 | STDA9 240-21323/11 | UX90541.D |
| Level 4 | STDA9 240-21323/12 | UX90542.D |
| Level 5 | STDA9 240-21323/13 | UX90543.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|-------------------------------|--------|--------|--------|--------|--------|------------|-------------|--------|----|---|---------|------|--------|----------|------------|---|----------------|
| | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| Dichlorofluoromethane | 0.5259 | 0.4705 | 0.4871 | 0.4937 | 0.4872 | Ave | | 0.4929 | | | | 4.1 | | 15.0 | | | |
| Ethyl ether | 0.2016 | 0.1759 | 0.1851 | 0.1897 | 0.1826 | Ave | | 0.1870 | | | | 5.1 | | 15.0 | | | |
| 3-Chloro-1-propene | 0.2615 | 0.2177 | 0.1984 | 0.1864 | 0.1653 | Lin1 | 0.1295 | 0.1751 | | | | | 0.9930 | | | | 0.9900 |
| Diisopropyl ether | 0.2506 | 0.2224 | 0.2323 | 0.2467 | 0.2515 | Ave | | 0.2407 | | | | 5.3 | | 15.0 | | | |
| 2-Chloro-1,3-butadiene | 0.2850 | 0.3020 | 0.3236 | 0.3467 | 0.3499 | Ave | | 0.3214 | | | | 8.7 | | 15.0 | | | |
| Ethyl-t-butyl ether (ETBE) | 0.6929 | 0.6185 | 0.6475 | 0.7009 | 0.7068 | Ave | | 0.6733 | | | | 5.7 | | 15.0 | | | |
| Ethyl acetate | 0.2190 | 0.1583 | 0.1754 | 0.1771 | 0.1770 | Ave | | 0.1814 | | | | 12.0 | | 15.0 | | | |
| Propionitrile | 0.0319 | 0.0267 | 0.0290 | 0.0289 | 0.0291 | Ave | | 0.0291 | | | | 6.4 | | 15.0 | | | |
| Methacrylonitrile | 0.1128 | 0.1112 | 0.1097 | 0.1148 | 0.1120 | Ave | | 0.1121 | | | | 1.7 | | 15.0 | | | |
| Isobutyl alcohol | 0.0082 | 0.0059 | 0.0073 | 0.0072 | 0.0068 | Ave | | 0.0071 | | | | 12.0 | | 15.0 | | | |
| Tert-amyl-methyl ether (TAME) | 0.7063 | 0.6339 | 0.6732 | 0.7077 | 0.7235 | Ave | | 0.6889 | | | | 5.2 | | 15.0 | | | 0.9900 |
| n-Heptane | 0.6640 | 0.1480 | 0.1314 | 0.1210 | 0.1163 | Lin1 | 0.5425 | 0.1073 | | | | | 0.9980 | | | | |
| n-Butanol | 0.0068 | 0.0056 | 0.0065 | 0.0066 | 0.0064 | Ave | | 0.0064 | | | | 7.6 | | 15.0 | | | |
| Methyl methacrylate | 0.2043 | 0.1576 | 0.1629 | 0.1680 | 0.1708 | Ave | | 0.1727 | | | | 11.0 | | 15.0 | | | |
| 2-Nitropropane | 0.0408 | 0.0297 | 0.0323 | 0.0353 | 0.0354 | Ave | | 0.0347 | | | | 12.0 | | 15.0 | | | |
| Cyclohexanone | 0.0250 | 0.0206 | 0.0227 | 0.0213 | 0.0209 | Ave | | 0.0221 | | | | 8.2 | | 15.0 | | | |
| 1,2,3-Trimethylbenzene | 2.3517 | 2.2462 | 2.4894 | 2.5321 | 2.6289 | Ave | | 2.4497 | | | | 6.2 | | 15.0 | | | |
| 2-Methylnaphthalene | 1.0950 | 1.2009 | 1.3691 | 1.5194 | 1.4805 | Ave | | 1.3330 | | | | 14.0 | | 15.0 | | | |
| n-Butyl acetate | 0.3244 | 0.3080 | 0.3537 | 0.3693 | 0.3680 | Ave | | 0.3447 | | | | 7.9 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton

Job No.: 240-12282-1

SDG No.: _____

Lab Sample ID: ICV 240-21323/15

Calibration Date: 10/31/2011 22:56

Instrument ID: A3UX9

Calib Start Date: 10/31/2011 17:54

GC Column: DB-624

ID: 0.18 (mm)

Calib End Date: 10/31/2011 19:56

Lab File ID: UX90545.D

Conc. Units: ug/L

Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---------------|---------|--------|---------|----------------|-----------------|-------|-----------|
| Dichlorodifluoromethane | Ave | 0.3234 | 0.2750 | | 17.0 | 20.0 | -15.0 | 50.0 |
| Chloromethane | Ave | 0.2686 | 0.2450 | 0.1000 | 18.2 | 20.0 | -8.8 | 50.0 |
| Vinyl chloride | Ave | 0.3221 | 0.2937 | | 18.2 | 20.0 | -8.8 | 20.0 |
| Bromomethane | Ave | 0.2278 | 0.1967 | | 17.3 | 20.0 | -13.6 | 50.0 |
| Chloroethane | Ave | 0.2023 | 0.1820 | | 18.0 | 20.0 | -10.0 | 50.0 |
| Trichlorofluoromethane | Ave | 0.4594 | 0.5166 | | 22.5 | 20.0 | 12.5 | 50.0 |
| Acrolein | Ave | 0.0346 | 0.0407 | | 70.5 | 60.0 | 17.6 | 50.0 |
| 1,1,2-Trichloro-1,2,2-trichf luoroethane | Ave | 0.2881 | 0.3175 | | 22.0 | 20.0 | 10.2 | 50.0 |
| 1,1-Dichloroethene | Ave | 0.4424 | 0.4839 | | 21.9 | 20.0 | 9.4 | 20.0 |
| Acetone | Lin1 | | 0.0623 | | 38.6 | 40.0 | -3.5 | 50.0 |
| Iodomethane | Ave | 0.5024 | 0.5076 | | 20.2 | 20.0 | 1.0 | 50.0 |
| Carbon disulfide | Ave | 0.8420 | 0.8637 | | 20.5 | 20.0 | 2.6 | 50.0 |
| Acetonitrile | Lin1 | | 0.0266 | | 64.9 | 60.0 | 8.2 | 50.0 |
| Methyl acetate | Lin1 | | 0.1422 | | 18.3 | 20.0 | -8.5 | 50.0 |
| Methylene Chloride | Ave | 0.3371 | 0.3149 | | 18.7 | 20.0 | -6.6 | 50.0 |
| tert-Butyl alcohol | Ave | 0.0206 | 0.0229 | | 445 | 400 | 11.1 | 50.0 |
| Acrylonitrile | Ave | 0.0855 | 0.0833 | | 58.5 | 60.0 | -2.6 | 50.0 |
| Methyl tert-butyl ether | Ave | 0.8037 | 0.7777 | | 19.4 | 20.0 | -3.2 | 50.0 |
| trans-1,2-Dichloroethene | Ave | 0.3311 | 0.3254 | | 19.7 | 20.0 | -1.7 | 50.0 |
| Hexane | Ave | 0.2068 | 0.2255 | | 21.8 | 20.0 | 9.0 | 20.0 |
| 1,1-Dichloroethane | Ave | 0.4089 | 0.4042 | 0.1000 | 19.8 | 20.0 | -1.2 | 50.0 |
| Vinyl acetate | Ave | 0.0574 | 0.0644 | | 22.4 | 20.0 | 12.1 | 50.0 |
| 2,2-Dichloropropane | Ave | 0.1807 | 0.1836 | | 20.3 | 20.0 | 1.6 | 50.0 |
| 2-Butanone | Lin1 | | 0.0263 | | 35.4 | 40.0 | -11.5 | 50.0 |
| cis-1,2-Dichloroethene | Ave | 0.3570 | 0.3232 | | 18.1 | 20.0 | -9.5 | 50.0 |
| Bromochloromethane | Ave | 0.1812 | 0.1763 | | 19.5 | 20.0 | -2.7 | 50.0 |
| Tetrahydrofuran | Lin1 | | 0.0538 | | 19.6 | 20.0 | -2.0 | 50.0 |
| Chloroform | Ave | 0.4701 | 0.4691 | | 20.0 | 20.0 | -0.2 | 20.0 |
| 1,1,1-Trichloroethane | Ave | 0.3076 | 0.3098 | | 20.1 | 20.0 | 0.7 | 50.0 |
| Cyclohexane | Ave | 0.3128 | 0.3176 | | 20.3 | 20.0 | 1.5 | 50.0 |
| 1,1-Dichloropropene | Ave | 0.3276 | 0.3380 | | 20.6 | 20.0 | 3.2 | 50.0 |
| Carbon tetrachloride | Ave | 0.2694 | 0.2676 | | 19.9 | 20.0 | -0.7 | 50.0 |
| Benzene | Ave | 1.049 | 1.023 | | 19.5 | 20.0 | -2.5 | 50.0 |
| 1,2-Dichloroethane | Ave | 0.3590 | 0.3551 | | 19.8 | 20.0 | -1.1 | 50.0 |
| Trichloroethene | Ave | 0.3096 | 0.3033 | | 19.6 | 20.0 | -2.0 | 50.0 |
| Methylcyclohexane | Ave | 0.2122 | 0.2122 | | 20.0 | 20.0 | 0.0 | 50.0 |
| 1,2-Dichloropropane | Ave | 0.2316 | 0.2241 | | 19.4 | 20.0 | -3.2 | 20.0 |
| Dibromomethane | Ave | 0.2000 | 0.2007 | | 20.1 | 20.0 | 0.3 | 50.0 |
| Bromodichloromethane | Ave | 0.3397 | 0.3163 | | 18.6 | 20.0 | -6.9 | 50.0 |
| 2-Chloroethyl vinyl ether | Ave | 0.1449 | 0.1421 | | 19.6 | 20.0 | -2.0 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton

Job No.: 240-12282-1

SDG No.: _____

Lab Sample ID: ICV 240-21323/15

Calibration Date: 10/31/2011 22:56

Instrument ID: A3UX9

Calib Start Date: 10/31/2011 17:54

GC Column: DB-624 ID: 0.18 (mm)

Calib End Date: 10/31/2011 19:56

Lab File ID: UX90545.D

Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|------------------------------|---------------|---------|--------|---------|----------------|-----------------|-------|-----------|
| cis-1,3-Dichloropropene | Ave | 0.4008 | 0.3550 | | 17.7 | 20.0 | -11.4 | 50.0 |
| 4-Methyl-2-pentanone | Ave | 0.1783 | 0.1773 | | 39.8 | 40.0 | -0.6 | 50.0 |
| Toluene | Ave | 1.490 | 1.486 | | 19.9 | 20.0 | -0.3 | 20.0 |
| trans-1,3-Dichloropropene | Ave | 0.4572 | 0.4421 | | 19.3 | 20.0 | -3.3 | 50.0 |
| 1,1,2-Trichloroethane | Ave | 0.3015 | 0.2884 | | 19.1 | 20.0 | -4.4 | 50.0 |
| Tetrachloroethene | Ave | 0.3839 | 0.3750 | | 19.5 | 20.0 | -2.3 | 50.0 |
| 1,3-Dichloropropane | Ave | 0.5326 | 0.5064 | | 19.0 | 20.0 | -4.9 | 50.0 |
| 2-Hexanone | Ave | 0.1498 | 0.1536 | | 41.0 | 40.0 | 2.5 | 50.0 |
| Dibromochloromethane | Ave | 0.3280 | 0.3051 | | 18.6 | 20.0 | -7.0 | 50.0 |
| 1,2-Dibromoethane | Ave | 0.3190 | 0.3091 | | 19.4 | 20.0 | -3.1 | 50.0 |
| Chlorobenzene | Ave | 1.051 | 1.010 | 0.3000 | 19.2 | 20.0 | -3.9 | 50.0 |
| 1,1,1,2-Tetrachloroethane | Ave | 0.3448 | 0.3084 | | 17.9 | 20.0 | -10.5 | 50.0 |
| Ethylbenzene | Ave | 0.5251 | 0.5284 | | 20.1 | 20.0 | 0.6 | 20.0 |
| m-Xylene & p-Xylene | Ave | 0.6459 | 0.6394 | | 39.6 | 40.0 | -1.0 | 50.0 |
| o-Xylene | Ave | 0.6499 | 0.6377 | | 19.6 | 20.0 | -1.9 | 50.0 |
| Styrene | Ave | 1.101 | 1.108 | | 20.1 | 20.0 | 0.6 | 50.0 |
| Bromoform | Ave | 0.2269 | 0.2045 | 0.1000 | 18.0 | 20.0 | -9.9 | 50.0 |
| Isopropylbenzene | Ave | 1.499 | 1.500 | | 20.0 | 20.0 | 0.0 | 50.0 |
| 1,1,2,2-Tetrachloroethane | Ave | 0.7184 | 0.6819 | 0.3000 | 19.0 | 20.0 | -5.1 | 50.0 |
| Bromobenzene | Ave | 0.8393 | 0.8142 | | 19.4 | 20.0 | -3.0 | 50.0 |
| 1,2,3-Trichloropropane | Ave | 0.2796 | 0.2732 | | 19.5 | 20.0 | -2.3 | 50.0 |
| trans-1,4-Dichloro-2-butene | Ave | 0.1952 | 0.1748 | | 35.8 | 40.0 | -10.5 | 50.0 |
| n-Propylbenzene | Ave | 0.7524 | 0.7638 | | 20.3 | 20.0 | 1.5 | 50.0 |
| 2-Chlorotoluene | Ave | 0.7104 | 0.7020 | | 19.8 | 20.0 | -1.2 | 50.0 |
| 1,3,5-Trimethylbenzene | Ave | 2.229 | 2.245 | | 20.1 | 20.0 | 0.7 | 50.0 |
| 4-Chlorotoluene | Ave | 0.7747 | 0.7449 | | 19.2 | 20.0 | -3.8 | 50.0 |
| tert-Butylbenzene | Ave | 2.000 | 1.963 | | 19.6 | 20.0 | -1.9 | 50.0 |
| 1,2,4-Trimethylbenzene | Ave | 2.418 | 2.345 | | 19.4 | 20.0 | -3.0 | 50.0 |
| sec-Butylbenzene | Ave | 2.544 | 2.619 | | 20.6 | 20.0 | 2.9 | 50.0 |
| 1,3-Dichlorobenzene | Ave | 1.526 | 1.485 | | 19.5 | 20.0 | -2.7 | 50.0 |
| p-Isopropyltoluene | Ave | 2.272 | 2.382 | | 21.0 | 20.0 | 4.8 | 50.0 |
| 1,4-Dichlorobenzene | Ave | 1.641 | 1.591 | | 19.4 | 20.0 | -3.1 | 50.0 |
| n-Butylbenzene | Ave | 1.825 | 1.940 | | 21.3 | 20.0 | 6.3 | 50.0 |
| 1,2-Dichlorobenzene | Ave | 1.519 | 1.515 | | 20.0 | 20.0 | -0.2 | 50.0 |
| 1,2-Dibromo-3-Chloropropane | Ave | 0.1721 | 0.1570 | | 18.2 | 20.0 | -8.8 | 50.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.9727 | 0.8980 | | 18.5 | 20.0 | -7.7 | 50.0 |
| Hexachlorobutadiene | Lin1 | | 0.3926 | | 19.3 | 20.0 | -3.5 | 50.0 |
| Naphthalene | Ave | 2.574 | 2.550 | | 19.8 | 20.0 | -0.9 | 50.0 |
| 1,2,3-Trichlorobenzene | Ave | 0.8679 | 0.8723 | | 20.1 | 20.0 | 0.5 | 50.0 |
| Dibromofluoromethane (Surr) | Ave | 0.2769 | 0.2442 | | 17.6 | 20.0 | -11.8 | 50.0 |
| 1,2-Dichloroethane-d4 (Surr) | Ave | 0.3301 | 0.2844 | | 17.2 | 20.0 | -13.8 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-12282-1
SDG No.: _____
Lab Sample ID: ICV 240-21323/15 Calibration Date: 10/31/2011 22:56
Instrument ID: A3UX9 Calib Start Date: 10/31/2011 17:54
GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 10/31/2011 19:56
Lab File ID: UX90545.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|-----------------------------|---------------|---------|--------|---------|----------------|-----------------|-------|-----------|
| Toluene-d8 (Surr) | Ave | 1.372 | 1.256 | | 18.3 | 20.0 | -8.5 | 50.0 |
| 4-Bromofluorobenzene (Surr) | Ave | 0.5194 | 0.4660 | | 17.9 | 20.0 | -10.3 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-12282-1
 SDG No.: _____
 Lab Sample ID: ICV 240-21323/15 Calibration Date: 10/31/2011 22:56
 Instrument ID: A3UX9 Calib Start Date: 10/31/2011 20:23
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 10/31/2011 22:06
 Lab File ID: UX90545.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|------------------------|---------------|---------|--------|---------|----------------|-----------------|-------|-----------|
| Ethyl ether | Ave | 0.1870 | 0.1974 | | 21.1 | 20.0 | 5.6 | 50.0 |
| Diisopropyl ether | Ave | 0.2407 | 0.2373 | | 19.7 | 20.0 | -1.4 | 50.0 |
| Isobutyl alcohol | Ave | 0.0071 | 0.0069 | | 981 | 1000 | -1.9 | 50.0 |
| Cyclohexanone | Ave | 0.0221 | 0.0179 | | 323 | 400 | -19.3 | 50.0 |
| 1,2,3-Trimethylbenzene | Ave | 2.450 | 2.507 | | 20.5 | 20.0 | 2.3 | 50.0 |

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-12282-1
SDG No.: _____
Lab File ID: BFB2063.D BFB Injection Date: 06/21/2012
Instrument ID: A3UX9 BFB Injection Time: 18:06
Analysis Batch No.: 48405

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50 | 15.0 - 40.0 % of mass 95 | 16.0 |
| 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 (0.6)1 |
| 174 | 50.0 - 120.00 % of mass 95 | 93.7 |
| 175 | 5.0 - 9.0 % of mass 174 | 7.1 (7.5)1 |
| 176 | 95.0 - 101.0 % of mass 174 | 91.1 (97.2)1 |
| 177 | 5.0 - 9.0 % of mass 176 | 5.7 (6.3)2 |

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|------------------|-------------------|-------------|---------------|---------------|
| | CCVIS 240-48405/2 | UX932460.D | 06/21/2012 | 18:29 |
| | LCS 240-48405/5 | UX932461.D | 06/21/2012 | 18:54 |
| | CCV 240-48405/3 | UX932462.D | 06/21/2012 | 19:18 |
| | MB 240-48405/4 | UX932463.D | 06/21/2012 | 19:45 |
| MRC-SW1A-061312 | 240-12282-1 | UX932468.D | 06/21/2012 | 21:40 |
| MRC-SW2A-061312 | 240-12282-2 | UX932469.D | 06/21/2012 | 22:02 |
| MRC-SW5A1-061312 | 240-12282-3 | UX932470.D | 06/21/2012 | 22:26 |
| MRC-SW5A2-061312 | 240-12282-4 | UX932471.D | 06/21/2012 | 22:48 |
| MRC-SW5B-061312 | 240-12282-5 | UX932472.D | 06/21/2012 | 23:12 |
| MRC-SW6A-061312 | 240-12282-6 | UX932473.D | 06/21/2012 | 23:36 |
| MRC-SW6B-061312 | 240-12282-7 | UX932474.D | 06/22/2012 | 00:00 |
| MRC-SW7A-061312 | 240-12282-8 | UX932475.D | 06/22/2012 | 00:24 |
| MRC-SW7B-061312 | 240-12282-9 | UX932476.D | 06/22/2012 | 00:48 |
| MRC-SW8A-061312 | 240-12282-10 | UX932477.D | 06/22/2012 | 01:12 |
| MRC-SW8B-061312 | 240-12282-11 | UX932478.D | 06/22/2012 | 01:36 |
| MRC-SW9A-061312 | 240-12282-12 | UX932479.D | 06/22/2012 | 02:00 |
| MRC-SW9B-061312 | 240-12282-13 | UX932480.D | 06/22/2012 | 02:24 |
| TB-061312 | 240-12282-14 | UX932481.D | 06/22/2012 | 02:48 |
| | 240-12358-A-2 MS | UX932482.D | 06/22/2012 | 03:12 |
| | 240-12358-A-2 MSD | UX932483.D | 06/22/2012 | 03:36 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-12282-1

SDG No.: _____

Lab Sample ID: CCVIS 240-48405/2 Calibration Date: 06/21/2012 18:29

Instrument ID: A3UX9 Calib Start Date: 10/31/2011 17:54

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 10/31/2011 19:56

Lab File ID: UX932460.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|------------|---------|--------|---------|-------------|--------------|-------|--------|
| Dichlorodifluoromethane | Ave | 0.3234 | 0.3072 | | 19.0 | 20.0 | -5.0 | 50.0 |
| Chloromethane | Ave | 0.2686 | 0.2874 | 0.1000 | 21.4 | 20.0 | 7.0 | 50.0 |
| Vinyl chloride | Ave | 0.3221 | 0.3091 | | 19.2 | 20.0 | -4.0 | 20.0 |
| Bromomethane | Ave | 0.2278 | 0.2218 | | 19.5 | 20.0 | -2.6 | 50.0 |
| Chloroethane | Ave | 0.2023 | 0.2129 | | 21.0 | 20.0 | 5.2 | 50.0 |
| Trichlorofluoromethane | Ave | 0.4594 | 0.4437 | | 19.3 | 20.0 | -3.4 | 50.0 |
| Acrolein | Ave | 0.0346 | 0.0360 | | 208 | 200 | 4.2 | 50.0 |
| 1,1,2-Trichloro-1,2,2-trichf luoroethane | Ave | 0.2881 | 0.2514 | | 17.5 | 20.0 | -12.7 | 50.0 |
| 1,1-Dichloroethene | Ave | 0.4424 | 0.4045 | | 18.3 | 20.0 | -8.6 | 20.0 |
| Acetone | Lin1 | | 0.0706 | | 44.2 | 40.0 | 10.5 | 50.0 |
| Iodomethane | Ave | 0.5024 | 0.4469 | | 17.8 | 20.0 | -11.0 | 50.0 |
| Carbon disulfide | Ave | 0.8420 | 0.7518 | | 17.9 | 20.0 | -10.7 | 50.0 |
| Acetonitrile | Lin1 | | 0.0255 | | 218 | 200 | 9.2 | 50.0 |
| Methyl acetate | Lin1 | | 0.1905 | | 50.2 | 40.0 | 25.5 | 50.0 |
| Methylene Chloride | Ave | 0.3371 | 0.3295 | | 19.5 | 20.0 | -2.3 | 50.0 |
| tert-Butyl alcohol | Ave | 0.0206 | 0.0247 | | 479 | 400 | 19.8 | 50.0 |
| Acrylonitrile | Ave | 0.0855 | 0.0976 | | 45.7 | 40.0 | 14.2 | 50.0 |
| Methyl tert-butyl ether | Ave | 0.8037 | 0.7933 | | 19.7 | 20.0 | -1.3 | 50.0 |
| trans-1,2-Dichloroethene | Ave | 0.3311 | 0.3085 | | 18.6 | 20.0 | -6.8 | 50.0 |
| Hexane | Ave | 0.2068 | 0.2044 | | 19.8 | 20.0 | -1.1 | 20.0 |
| 1,1-Dichloroethane | Ave | 0.4089 | 0.4118 | 0.1000 | 20.1 | 20.0 | 0.7 | 50.0 |
| Vinyl acetate | Ave | 0.0574 | 0.0468 | | 16.3 | 20.0 | -18.5 | 50.0 |
| 2-Butanone | Lin1 | | 0.0361 | | 49.0 | 40.0 | 22.5 | 50.0 |
| cis-1,2-Dichloroethene | Ave | 0.3570 | 0.3486 | | 19.5 | 20.0 | -2.4 | 50.0 |
| 2,2-Dichloropropane | Ave | 0.1807 | 0.1986 | | 22.0 | 20.0 | 9.9 | 50.0 |
| Bromochloromethane | Ave | 0.1812 | 0.1919 | | 21.2 | 20.0 | 5.9 | 50.0 |
| Tetrahydrofuran | Lin1 | | 0.0729 | | 26.7 | 20.0 | 33.5 | 50.0 |
| Chloroform | Ave | 0.4701 | 0.4573 | | 19.5 | 20.0 | -2.7 | 20.0 |
| 1,1,1-Trichloroethane | Ave | 0.3076 | 0.3237 | | 21.0 | 20.0 | 5.2 | 50.0 |
| Cyclohexane | Ave | 0.3128 | 0.3251 | | 20.8 | 20.0 | 4.0 | 50.0 |
| 1,1-Dichloropropene | Ave | 0.3276 | 0.3351 | | 20.5 | 20.0 | 2.3 | 50.0 |
| Carbon tetrachloride | Ave | 0.2694 | 0.2831 | | 21.0 | 20.0 | 5.1 | 50.0 |
| 1,2-Dichloroethane | Ave | 0.3590 | 0.3604 | | 20.1 | 20.0 | 0.4 | 50.0 |
| Benzene | Ave | 1.049 | 1.043 | | 19.9 | 20.0 | -0.5 | 50.0 |
| Trichloroethene | Ave | 0.3096 | 0.2880 | | 18.6 | 20.0 | -7.0 | 50.0 |
| Methylcyclohexane | Ave | 0.2122 | 0.1967 | | 18.5 | 20.0 | -7.3 | 50.0 |
| 1,2-Dichloropropane | Ave | 0.2316 | 0.2334 | | 20.2 | 20.0 | 0.8 | 20.0 |
| 1,4-Dioxane | Ave | 0.0032 | 0.0040 | | 1260 | 1000 | 26.3 | 50.0 |
| Dibromomethane | Ave | 0.2000 | 0.2074 | | 20.7 | 20.0 | 3.7 | 50.0 |
| Bromodichloromethane | Ave | 0.3397 | 0.3274 | | 19.3 | 20.0 | -3.6 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-12282-1

SDG No.: _____

Lab Sample ID: CCVIS 240-48405/2 Calibration Date: 06/21/2012 18:29

Instrument ID: A3UX9 Calib Start Date: 10/31/2011 17:54

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 10/31/2011 19:56

Lab File ID: UX932460.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|-----------------------------|---------------|---------|--------|---------|----------------|-----------------|-------|-----------|
| 2-Chloroethyl vinyl ether | Ave | 0.1449 | 0.1700 | | 46.9 | 40.0 | 17.3 | 50.0 |
| cis-1,3-Dichloropropene | Ave | 0.4008 | 0.3847 | | 19.2 | 20.0 | -4.0 | 50.0 |
| 4-Methyl-2-pentanone | Ave | 0.1783 | 0.2249 | | 50.5 | 40.0 | 26.2 | 50.0 |
| Toluene | Ave | 1.490 | 1.481 | | 19.9 | 20.0 | -0.6 | 20.0 |
| trans-1,3-Dichloropropene | Ave | 0.4572 | 0.4444 | | 19.4 | 20.0 | -2.8 | 50.0 |
| Ethyl methacrylate | Ave | 0.3590 | 0.4329 | | 24.1 | 20.0 | 20.6 | 50.0 |
| 1,1,2-Trichloroethane | Ave | 0.3015 | 0.3219 | | 21.3 | 20.0 | 6.7 | 50.0 |
| Tetrachloroethene | Ave | 0.3839 | 0.3569 | | 18.6 | 20.0 | -7.0 | 50.0 |
| 1,3-Dichloropropane | Ave | 0.5326 | 0.5524 | | 20.7 | 20.0 | 3.7 | 50.0 |
| 2-Hexanone | Ave | 0.1498 | 0.2019 | | 53.9 | 40.0 | 34.8 | 50.0 |
| Dibromochloromethane | Ave | 0.3280 | 0.3246 | | 19.8 | 20.0 | -1.0 | 50.0 |
| 1,2-Dibromoethane | Ave | 0.3190 | 0.3309 | | 20.7 | 20.0 | 3.7 | 50.0 |
| Chlorobenzene | Ave | 1.051 | 0.9852 | 0.3000 | 18.7 | 20.0 | -6.3 | 50.0 |
| 1,1,1,2-Tetrachloroethane | Ave | 0.3448 | 0.3199 | | 18.6 | 20.0 | -7.2 | 50.0 |
| Ethylbenzene | Ave | 0.5251 | 0.4919 | | 18.7 | 20.0 | -6.3 | 20.0 |
| m-Xylene & p-Xylene | Ave | 0.6459 | 0.6239 | | 38.6 | 40.0 | -3.4 | 50.0 |
| o-Xylene | Ave | 0.6499 | 0.6049 | | 18.6 | 20.0 | -6.9 | 50.0 |
| Styrene | Ave | 1.101 | 1.100 | | 20.0 | 20.0 | -0.0 | 50.0 |
| Bromoform | Ave | 0.2269 | 0.2040 | 0.1000 | 18.0 | 20.0 | -10.1 | 50.0 |
| Isopropylbenzene | Ave | 1.499 | 1.401 | | 18.7 | 20.0 | -6.5 | 50.0 |
| 1,1,2,2-Tetrachloroethane | Ave | 0.7184 | 0.8106 | 0.3000 | 22.6 | 20.0 | 12.8 | 50.0 |
| Bromobenzene | Ave | 0.8393 | 0.8253 | | 19.7 | 20.0 | -1.7 | 50.0 |
| 1,2,3-Trichloropropane | Ave | 0.2796 | 0.3077 | | 22.0 | 20.0 | 10.0 | 50.0 |
| trans-1,4-Dichloro-2-butene | Ave | 0.1952 | 0.1313 | | 13.5 | 20.0 | -32.7 | 50.0 |
| n-Propylbenzene | Ave | 0.7524 | 0.6746 | | 17.9 | 20.0 | -10.3 | 50.0 |
| 2-Chlorotoluene | Ave | 0.7104 | 0.6563 | | 18.5 | 20.0 | -7.6 | 50.0 |
| 1,3,5-Trimethylbenzene | Ave | 2.229 | 2.120 | | 19.0 | 20.0 | -4.9 | 50.0 |
| 4-Chlorotoluene | Ave | 0.7747 | 0.7198 | | 18.6 | 20.0 | -7.1 | 50.0 |
| tert-Butylbenzene | Ave | 2.000 | 1.804 | | 18.0 | 20.0 | -9.8 | 50.0 |
| 1,2,4-Trimethylbenzene | Ave | 2.418 | 2.205 | | 18.2 | 20.0 | -8.8 | 50.0 |
| sec-Butylbenzene | Ave | 2.544 | 2.426 | | 19.1 | 20.0 | -4.6 | 50.0 |
| 1,3-Dichlorobenzene | Ave | 1.526 | 1.415 | | 18.5 | 20.0 | -7.3 | 50.0 |
| p-Isopropyltoluene | Ave | 2.272 | 2.122 | | 18.7 | 20.0 | -6.6 | 50.0 |
| 1,4-Dichlorobenzene | Ave | 1.641 | 1.466 | | 17.9 | 20.0 | -10.7 | 50.0 |
| n-Butylbenzene | Ave | 1.825 | 1.725 | | 18.9 | 20.0 | -5.5 | 50.0 |
| 1,2-Dichlorobenzene | Ave | 1.519 | 1.410 | | 18.6 | 20.0 | -7.1 | 50.0 |
| 1,2-Dibromo-3-Chloropropane | Ave | 0.1721 | 0.1627 | | 18.9 | 20.0 | -5.5 | 50.0 |
| 1,3,5-Trichlorobenzene | Ave | 1.044 | 0.8421 | | 16.1 | 20.0 | -19.3 | 50.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.9727 | 0.7319 | | 15.0 | 20.0 | -24.8 | 50.0 |
| Hexachlorobutadiene | Lin1 | | 0.3373 | | 16.5 | 20.0 | -17.5 | 50.0 |
| Naphthalene | Ave | 2.574 | 1.916 | | 14.9 | 20.0 | -25.6 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-12282-1
 SDG No.: _____
 Lab Sample ID: CCVIS 240-48405/2 Calibration Date: 06/21/2012 18:29
 Instrument ID: A3UX9 Calib Start Date: 10/31/2011 17:54
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 10/31/2011 19:56
 Lab File ID: UX932460.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|------------------------------|---------------|---------|--------|---------|----------------|-----------------|-------|-----------|
| 1,2,3-Trichlorobenzene | Ave | 0.8679 | 0.6032 | | 13.9 | 20.0 | -30.5 | 50.0 |
| Dibromofluoromethane (Surr) | Ave | 0.2769 | 0.2424 | | 17.5 | 20.0 | -12.5 | 50.0 |
| 1,2-Dichloroethane-d4 (Surr) | Ave | 0.3301 | 0.3132 | | 19.0 | 20.0 | -5.1 | 50.0 |
| Toluene-d8 (Surr) | Ave | 1.372 | 1.271 | | 18.5 | 20.0 | -7.4 | 50.0 |
| 4-Bromofluorobenzene (Surr) | Ave | 0.5194 | 0.4524 | | 17.4 | 20.0 | -12.9 | 50.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-12282-1
 SDG No.: _____
 Lab Sample ID: CCV 240-48405/3 Calibration Date: 06/21/2012 19:18
 Instrument ID: A3UX9 Calib Start Date: 10/31/2011 20:23
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 10/31/2011 22:06
 Lab File ID: UX932462.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|----------------------------------|---------------|---------|--------|---------|----------------|-----------------|--------|-----------|
| Dichlorofluoromethane | Ave | 0.4929 | 0.5809 | | 23.6 | 20.0 | 17.8 | 50.0 |
| Ethyl ether | Ave | 0.1870 | 0.2225 | | 23.8 | 20.0 | 19.0 | 50.0 |
| 3-Chloro-1-propene | Lin1 | | 0.2713 | | 30.2 | 20.0 | 51.0* | 50.0 |
| Diisopropyl ether | Ave | 0.2407 | 0.2739 | | 114 | 100 | 13.8 | 50.0 |
| 2-Chloro-1,3-butadiene | Ave | 0.3214 | 0.4024 | | 25.0 | 20.0 | 25.2 | 50.0 |
| Ethyl-t-butyl ether (ETBE) | Ave | 0.6733 | 0.8242 | | 24.5 | 20.0 | 22.4 | 50.0 |
| Ethyl acetate | Ave | 0.1814 | 0.2452 | | 54.1 | 40.0 | 35.2 | 50.0 |
| Propionitrile | Ave | 0.0291 | 0.0417 | | 57.3 | 40.0 | 43.2 | 50.0 |
| Methacrylonitrile | Ave | 0.1121 | 0.1602 | | 28.6 | 20.0 | 42.9 | 50.0 |
| Isobutyl alcohol | Ave | 0.0071 | 0.0097 | | 550 | 400 | 37.5 | 50.0 |
| Tert-amyl-methyl ether (TAME) | Ave | 0.6889 | 0.8165 | | 23.7 | 20.0 | 18.5 | 50.0 |
| n-Heptane | Lin1 | | 0.1439 | | 21.8 | 20.0 | 9.0 | 50.0 |
| n-Butanol | Ave | 0.0064 | 0.0087 | | 544 | 400 | 36.1 | 50.0 |
| Methyl methacrylate | Ave | 0.1727 | 0.2299 | | 26.6 | 20.0 | 33.1 | 50.0 |
| 2-Nitropropane | Ave | 0.0347 | 0.0502 | | 57.8 | 40.0 | 44.5 | 50.0 |
| Cyclohexanone | Ave | 0.0221 | 0.0563 | | 509 | 200 | 154.7* | 50.0 |
| 1,2,3-Trimethylbenzene | Ave | 2.450 | 2.504 | | 20.4 | 20.0 | 2.2 | 50.0 |
| 2-Methylnaphthalene | Ave | 1.333 | 0.4459 | | 13.4 | 40.0 | -66.5* | 50.0 |

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-12282-1
 SDG No.: _____
 Lab File ID: UX932463.D Lab Sample ID: MB 240-48405/4
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: A3UX9 Date Analyzed: 06/21/2012 19:45
 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 240-48405/5 | UX932461.D | 06/21/2012 18:54 |
| MRC-SW1A-061312 | 240-12282-1 | UX932468.D | 06/21/2012 21:40 |
| MRC-SW2A-061312 | 240-12282-2 | UX932469.D | 06/21/2012 22:02 |
| MRC-SW5A1-061312 | 240-12282-3 | UX932470.D | 06/21/2012 22:26 |
| MRC-SW5A2-061312 | 240-12282-4 | UX932471.D | 06/21/2012 22:48 |
| MRC-SW5B-061312 | 240-12282-5 | UX932472.D | 06/21/2012 23:12 |
| MRC-SW6A-061312 | 240-12282-6 | UX932473.D | 06/21/2012 23:36 |
| MRC-SW6B-061312 | 240-12282-7 | UX932474.D | 06/22/2012 00:00 |
| MRC-SW7A-061312 | 240-12282-8 | UX932475.D | 06/22/2012 00:24 |
| MRC-SW7B-061312 | 240-12282-9 | UX932476.D | 06/22/2012 00:48 |
| MRC-SW8A-061312 | 240-12282-10 | UX932477.D | 06/22/2012 01:12 |
| MRC-SW8B-061312 | 240-12282-11 | UX932478.D | 06/22/2012 01:36 |
| MRC-SW9A-061312 | 240-12282-12 | UX932479.D | 06/22/2012 02:00 |
| MRC-SW9B-061312 | 240-12282-13 | UX932480.D | 06/22/2012 02:24 |
| TB-061312 | 240-12282-14 | UX932481.D | 06/22/2012 02:48 |
| | 240-12358-A-2 MS | UX932482.D | 06/22/2012 03:12 |
| | 240-12358-A-2 MSD | UX932483.D | 06/22/2012 03:36 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-12282-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 240-48405/4

Matrix: Water Lab File ID: UX932463.D

Analysis Method: 8260B Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 06/21/2012 19:45

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.: 48405 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.: 240-12282-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 240-48405/4

Matrix: Water Lab File ID: UX932463.D

Analysis Method: 8260B Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 06/21/2012 19:45

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.: 48405 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 | 0.441 | J | 1.0 | 0.30 |
| 98-82-8 | Isopropylbenzene | 1.0 | U | 1.0 | 0.13 |
| 1634-04-4 | Methyl tert-butyl ether | 5.0 | U | 5.0 | 0.17 |
| 75-09-2 | Methylene Chloride | 0.659 | J | 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.: 240-12282-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-48405/4
 Matrix: Water Lab File ID: UX932463.D
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 06/21/2012 19:45
 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.: 48405 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) | 91 | | 63-129 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 83 | | 66-117 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 86 | | 75-121 |
| 2037-26-5 | Toluene-d8 (Surr) | 90 | | 74-115 |

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton

Job No.: 240-12282-1

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 # |
|------------------|----------------------|--------|-------|-------|-------|
| MRC-SW1A-061312 | 240-12282-1 | 88 | 93 | 89 | 82 |
| MRC-SW2A-061312 | 240-12282-2 | 88 | 91 | 91 | 82 |
| MRC-SW5A1-061312 | 240-12282-3 | 88 | 92 | 89 | 82 |
| MRC-SW5A2-061312 | 240-12282-4 | 88 | 92 | 91 | 83 |
| MRC-SW5B-061312 | 240-12282-5 | 87 | 91 | 90 | 82 |
| MRC-SW6A-061312 | 240-12282-6 | 88 | 90 | 88 | 81 |
| MRC-SW6B-061312 | 240-12282-7 | 86 | 89 | 88 | 82 |
| MRC-SW7A-061312 | 240-12282-8 | 87 | 90 | 88 | 82 |
| MRC-SW7B-061312 | 240-12282-9 | 90 | 91 | 89 | 81 |
| MRC-SW8A-061312 | 240-12282-10 | 87 | 92 | 90 | 82 |
| MRC-SW8B-061312 | 240-12282-11 | 87 | 90 | 88 | 80 |
| MRC-SW9A-061312 | 240-12282-12 | 90 | 92 | 88 | 81 |
| MRC-SW9B-061312 | 240-12282-13 | 89 | 91 | 89 | 81 |
| TB-061312 | 240-12282-14 | 88 | 88 | 89 | 80 |
| | MB 240-48405/4 | 86 | 91 | 90 | 83 |
| | LCS 240-48405/5 | 88 | 95 | 95 | 92 |
| | 240-12358-A-2 MS | 91 | 95 | 92 | 90 |
| | 240-12358-A-2 MSD | 86 | 91 | 90 | 89 |

QC LIMITS

DBFM = Dibromofluoromethane (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

75-121
63-129
74-115
66-117

Column to be used to flag recovery values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton

Job No.: 240-12282-1

SDG No.: _____

Matrix: Water

Level: Low

Lab File ID: UX932461.D

Lab ID: LCS 240-48405/5

Client ID: _____

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC | QC LIMITS REC | # |
|---|--------------------------|--------------------------------|-----------------|---------------------|---|
| 1,1,1,2-Tetrachloroethane | 20.0 | 18.6 | 93 | 72-116 | |
| 1,1,1-Trichloroethane | 20.0 | 22.0 | 110 | 74-118 | |
| 1,1,2,2-Tetrachloroethane | 20.0 | 22.6 | 113 | 68-118 | |
| 1,1,2-Trichloro-1,2,2-trichflu oroethane | 20.0 | 18.1 | 91 | 74-151 | |
| 1,1-Dichloroethane | 20.0 | 21.3 | 107 | 82-115 | |
| 1,1-Dichloroethene | 20.0 | 20.1 | 101 | 78-131 | |
| 1,1-Dichloropropene | 20.0 | 21.0 | 105 | 83-114 | |
| 1,2,3-Trichlorobenzene | 20.0 | 15.4 | 77 | 54-126 | |
| 1,2,3-Trichloropropane | 20.0 | 22.2 | 111 | 73-129 | |
| 1,2,3-Trimethylbenzene | 20.0 | 19.3 | 97 | 70-130 | |
| 1,2,4-Trichlorobenzene | 20.0 | 15.5 | 78 | 48-135 | |
| 1,2,4-Trimethylbenzene | 20.0 | 18.3 | 92 | 76-120 | |
| 1,2-Dibromo-3-Chloropropane | 20.0 | 18.7 | 94 | 42-136 | |
| 1,2-Dibromoethane | 20.0 | 21.0 | 105 | 79-113 | |
| 1,2-Dichlorobenzene | 20.0 | 18.6 | 93 | 81-110 | |
| 1,2-Dichloroethane | 20.0 | 21.0 | 105 | 71-127 | |
| 1,2-Dichloropropane | 20.0 | 21.5 | 108 | 81-115 | |
| 1,3-Dichlorobenzene | 20.0 | 19.0 | 95 | 80-110 | |
| 1,3-Dichloropropane | 20.0 | 21.6 | 108 | 79-116 | |
| 1,4-Dichlorobenzene | 20.0 | 18.2 | 91 | 82-110 | |
| 2,2-Dichloropropane | 20.0 | 21.9 | 110 | 50-129 | |
| 2-Butanone | 40.0 | 51.6 | 129 | 60-126 | * |
| 2-Chloroethyl vinyl ether | 20.0 | 23.2 | 116 | 52-131 | |
| 2-Chlorotoluene | 20.0 | 19.1 | 96 | 76-116 | |
| 2-Hexanone | 40.0 | 57.8 | 145 | 55-133 | * |
| 4-Chlorotoluene | 20.0 | 19.2 | 96 | 77-115 | |
| 4-Methyl-2-pentanone | 40.0 | 53.9 | 135 | 63-128 | * |
| Acetone | 40.0 | 52.3 | 131 | 43-136 | |
| Benzene | 20.0 | 21.3 | 107 | 83-112 | |
| Bromobenzene | 20.0 | 20.1 | 101 | 76-115 | |
| Bromochloromethane | 20.0 | 21.0 | 105 | 77-120 | |
| Bromodichloromethane | 20.0 | 20.1 | 101 | 72-121 | |
| Bromoform | 20.0 | 17.1 | 86 | 40-131 | |
| Bromomethane | 20.0 | 18.2 | 91 | 11-185 | |
| Carbon disulfide | 20.0 | 19.4 | 97 | 62-142 | |
| Carbon tetrachloride | 20.0 | 21.9 | 110 | 66-128 | |
| Chlorobenzene | 20.0 | 18.9 | 95 | 85-110 | |
| Chloroethane | 20.0 | 19.2 | 96 | 25-153 | |
| Chloroform | 20.0 | 19.5 | 98 | 79-117 | |
| Chloromethane | 20.0 | 19.3 | 97 | 44-126 | |
| cis-1,2-Dichloroethene | 20.0 | 20.3 | 102 | 80-113 | |

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-12282-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: UX932461.D
Lab ID: LCS 240-48405/5 Client ID: _____

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC | QC LIMITS REC | # |
|---------------------------|--------------------------|--------------------------------|-----------------|---------------------|---|
| cis-1,3-Dichloropropene | 20.0 | 18.4 | 92 | 61-115 | |
| Dibromochloromethane | 20.0 | 18.9 | 95 | 64-119 | |
| Dibromomethane | 20.0 | 21.6 | 108 | 81-120 | |
| Dichlorodifluoromethane | 20.0 | 16.1 | 81 | 19-129 | |
| Diisopropyl ether | 20.0 | 21.2 | 106 | 77-118 | |
| Ethylbenzene | 20.0 | 19.0 | 95 | 83-112 | |
| Hexachlorobutadiene | 20.0 | 17.7 | 89 | 36-134 | |
| Isopropylbenzene | 20.0 | 18.8 | 94 | 75-114 | |
| Methyl tert-butyl ether | 20.0 | 20.1 | 101 | 52-144 | |
| Methylene Chloride | 20.0 | 19.7 | 99 | 66-131 | |
| m-Xylene & p-Xylene | 40.0 | 38.0 | 95 | 83-113 | |
| Naphthalene | 20.0 | 16.1 | 81 | 32-141 | |
| n-Butylbenzene | 20.0 | 19.8 | 99 | 66-125 | |
| n-Propylbenzene | 20.0 | 18.5 | 93 | 74-121 | |
| o-Xylene | 20.0 | 19.1 | 96 | 83-113 | |
| p-Isopropyltoluene | 20.0 | 19.5 | 98 | 74-120 | |
| sec-Butylbenzene | 20.0 | 19.5 | 98 | 70-117 | |
| Styrene | 20.0 | 20.2 | 101 | 79-114 | |
| tert-Butyl alcohol | 400 | 528 | 132 | 70-130 | * |
| tert-Butylbenzene | 20.0 | 20.4 | 102 | 71-115 | |
| Tetrachloroethene | 20.0 | 18.9 | 95 | 79-114 | |
| Toluene | 20.0 | 20.4 | 102 | 84-111 | |
| trans-1,2-Dichloroethene | 20.0 | 20.1 | 101 | 83-117 | |
| trans-1,3-Dichloropropene | 20.0 | 19.4 | 97 | 58-117 | |
| Trichloroethene | 20.0 | 19.8 | 99 | 76-117 | |
| Trichlorofluoromethane | 20.0 | 20.3 | 102 | 49-157 | |
| Vinyl acetate | 20.0 | 20.7 | 104 | 46-161 | |
| Vinyl chloride | 20.0 | 18.2 | 91 | 53-127 | |
| Xylenes, Total | 60.0 | 57.1 | 95 | 83-112 | |

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton

Job No.: 240-12282-1

SDG No.: _____

Matrix: Water

Level: Low

Lab File ID: UX932482.D

Lab ID: 240-12358-A-2 MS

Client ID: _____

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS % REC | QC LIMITS REC | # |
|---|--------------------------|-----------------------------------|-------------------------------|----------------|---------------------|---|
| 1,1,1,2-Tetrachloroethane | 1000 | 50 U | 765 | 77 | 64-118 | |
| 1,1,1-Trichloroethane | 1000 | 50 U | 940 | 94 | 68-121 | |
| 1,1,2,2-Tetrachloroethane | 1000 | 50 U | 965 | 97 | 63-122 | |
| 1,1,2-Trichloro-1,2,2-trichflu oroethane | 1000 | 50 U | 850 | 85 | 70-152 | |
| 1,1-Dichloroethane | 1000 | 50 U | 1000 | 100 | 79-116 | |
| 1,1-Dichloroethene | 1000 | 50 U | 935 | 94 | 74-135 | |
| 1,1-Dichloropropene | 1000 | 50 U | 990 | 99 | 80-114 | |
| 1,2,3-Trichlorobenzene | 1000 | 50 U | 595 | 60 | 45-129 | |
| 1,2,3-Trichloropropane | 1000 | 50 U | 925 | 93 | 67-132 | |
| 1,2,3-Trimethylbenzene | 1000 | 250 U | 915 | 92 | 70-130 | |
| 1,2,4-Trichlorobenzene | 1000 | 1400 | 2000 | 63 | 38-138 | |
| 1,2,4-Trimethylbenzene | 1000 | 50 U | 865 | 87 | 67-124 | |
| 1,2-Dibromo-3-Chloropropane | 1000 | 250 U | 585 | 59 | 32-139 | |
| 1,2-Dibromoethane | 1000 | 50 U | 895 | 90 | 74-113 | |
| 1,2-Dichlorobenzene | 1000 | 50 U | 880 | 88 | 75-111 | |
| 1,2-Dichloroethane | 1000 | 50 U | 970 | 97 | 68-129 | |
| 1,2-Dichloropropane | 1000 | 50 U | 975 | 98 | 78-115 | |
| 1,3-Dichlorobenzene | 1000 | 1900 | 2810 | 93 | 73-110 | |
| 1,3-Dichloropropane | 1000 | 50 U | 975 | 98 | 74-118 | |
| 1,4-Dichlorobenzene | 1000 | 2300 | 3210 | 89 | 75-110 | |
| 2,2-Dichloropropane | 1000 | 50 U | 865 | 87 | 38-127 | |
| 2-Butanone | 2000 | 250 U | 2050 | 103 | 54-129 | |
| 2-Chloroethyl vinyl ether | 1000 | 500 U | 82.5 J | 8 | 10-150 | F |
| 2-Chlorotoluene | 1000 | 50 U | 885 | 89 | 69-117 | |
| 2-Hexanone | 2000 | 250 U | 2230 | 112 | 47-139 | |
| 4-Chlorotoluene | 1000 | 50 U | 880 | 88 | 71-116 | |
| 4-Methyl-2-pentanone | 2000 | 250 U | 2200 | 110 | 56-131 | |
| Acetone | 2000 | 250 U | 2060 | 103 | 33-145 | |
| Benzene | 1000 | 50 U | 975 | 98 | 72-121 | |
| Bromobenzene | 1000 | 50 U | 910 | 91 | 71-116 | |
| Bromochloromethane | 1000 | 50 U | 1010 | 101 | 73-121 | |
| Bromodichloromethane | 1000 | 50 U | 870 | 87 | 67-120 | |
| Bromoform | 1000 | 50 U | 550 | 55 | 32-128 | |
| Bromomethane | 1000 | 50 U | 860 | 86 | 10-186 | |
| Carbon disulfide | 1000 | 50 U | 875 | 88 | 57-147 | |
| Carbon tetrachloride | 1000 | 50 U | 895 | 90 | 59-129 | |
| Chlorobenzene | 1000 | 620 | 1510 | 89 | 80-110 | |
| Chloroethane | 1000 | 50 U | 935 | 94 | 21-165 | |
| Chloroform | 1000 | 50 U | 910 | 91 | 76-118 | |
| Chloromethane | 1000 | 50 U | 925 | 93 | 33-132 | |
| cis-1,2-Dichloroethene | 1000 | 50 U | 895 | 90 | 70-120 | |

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-12282-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: UX932482.D
Lab ID: 240-12358-A-2 MS Client ID: _____

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS % REC | QC LIMITS REC | # |
|---------------------------|--------------------------|-----------------------------------|-------------------------------|----------------|---------------------|---|
| cis-1,3-Dichloropropene | 1000 | 50 U | 760 | 76 | 51-110 | |
| Dibromochloromethane | 1000 | 50 U | 720 | 72 | 56-118 | |
| Dibromomethane | 1000 | 50 U | 1000 | 100 | 77-121 | |
| Dichlorodifluoromethane | 1000 | 50 U | 690 | 69 | 17-128 | |
| Diisopropyl ether | 1000 | 250 U | 970 | 97 | 73-118 | |
| Ethylbenzene | 1000 | 50 U | 890 | 89 | 75-116 | |
| Hexachlorobutadiene | 1000 | 50 U | 770 | 77 | 27-132 | |
| Isopropylbenzene | 1000 | 50 U | 875 | 88 | 68-116 | |
| Methyl tert-butyl ether | 1000 | 250 U | 870 | 87 | 46-144 | |
| Methylene Chloride | 1000 | 35 J | 935 | 90 | 63-128 | |
| m-Xylene & p-Xylene | 2000 | 100 U | 1800 | 90 | 75-117 | |
| Naphthalene | 1000 | 50 U | 600 | 60 | 15-158 | |
| n-Butylbenzene | 1000 | 50 U | 910 | 91 | 56-127 | |
| n-Propylbenzene | 1000 | 50 U | 885 | 89 | 64-124 | |
| o-Xylene | 1000 | 50 U | 885 | 89 | 76-116 | |
| p-Isopropyltoluene | 1000 | 50 U | 910 | 91 | 64-122 | |
| sec-Butylbenzene | 1000 | 50 U | 880 | 88 | 60-119 | |
| Styrene | 1000 | 50 U | 925 | 93 | 71-117 | |
| tert-Butyl alcohol | 20000 | 1000 U | 21100 | 105 | 70-130 | |
| tert-Butylbenzene | 1000 | 50 U | 865 | 87 | 61-119 | |
| Tetrachloroethene | 1000 | 50 U | 860 | 86 | 70-117 | |
| Toluene | 1000 | 50 U | 920 | 92 | 78-114 | |
| trans-1,2-Dichloroethene | 1000 | 50 U | 940 | 94 | 80-119 | |
| trans-1,3-Dichloropropene | 1000 | 50 U | 740 | 74 | 46-116 | |
| Trichloroethene | 1000 | 50 U | 910 | 91 | 66-120 | |
| Trichlorofluoromethane | 1000 | 50 U | 890 | 89 | 46-157 | |
| Vinyl acetate | 1000 | 100 U | 795 | 80 | 43-157 | |
| Vinyl chloride | 1000 | 25 U | 820 | 82 | 49-130 | |
| Xylenes, Total | 3000 | 100 U | 2690 | 90 | 76-116 | |

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton

Job No.: 240-12282-1

SDG No.: _____

Matrix: Water

Level: Low

Lab File ID: UX932483.D

Lab ID: 240-12358-A-2 MSD

Client ID: _____

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD % REC | % RPD | QC LIMITS | | # |
|---|--------------------------|--------------------------------|-----------------|----------|-----------|--------|---|
| | | | | | RPD | REC | |
| 1,1,1,2-Tetrachloroethane | 1000 | 785 | 79 | 3 | 30 | 64-118 | |
| 1,1,1-Trichloroethane | 1000 | 965 | 97 | 3 | 30 | 68-121 | |
| 1,1,2,2-Tetrachloroethane | 1000 | 985 | 99 | 2 | 30 | 63-122 | |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1000 | 800 | 80 | 6 | 30 | 70-152 | |
| 1,1-Dichloroethane | 1000 | 975 | 98 | 3 | 30 | 79-116 | |
| 1,1-Dichloroethene | 1000 | 895 | 90 | 4 | 30 | 74-135 | |
| 1,1-Dichloropropene | 1000 | 945 | 95 | 5 | 30 | 80-114 | |
| 1,2,3-Trichlorobenzene | 1000 | 620 | 62 | 4 | 30 | 45-129 | |
| 1,2,3-Trichloropropane | 1000 | 970 | 97 | 5 | 30 | 67-132 | |
| 1,2,3-Trimethylbenzene | 1000 | 910 | 91 | 1 | 30 | 70-130 | |
| 1,2,4-Trichlorobenzene | 1000 | 1990 | 62 | 1 | 30 | 38-138 | |
| 1,2,4-Trimethylbenzene | 1000 | 855 | 86 | 1 | 30 | 67-124 | |
| 1,2-Dibromo-3-Chloropropane | 1000 | 610 | 61 | 4 | 30 | 32-139 | |
| 1,2-Dibromoethane | 1000 | 905 | 91 | 1 | 30 | 74-113 | |
| 1,2-Dichlorobenzene | 1000 | 870 | 87 | 1 | 30 | 75-111 | |
| 1,2-Dichloroethane | 1000 | 975 | 98 | 1 | 30 | 68-129 | |
| 1,2-Dichloropropane | 1000 | 985 | 99 | 1 | 30 | 78-115 | |
| 1,3-Dichlorobenzene | 1000 | 2790 | 91 | 1 | 30 | 73-110 | |
| 1,3-Dichloropropane | 1000 | 975 | 98 | 0 | 30 | 74-118 | |
| 1,4-Dichlorobenzene | 1000 | 3150 | 83 | 2 | 30 | 75-110 | |
| 2,2-Dichloropropane | 1000 | 865 | 87 | 0 | 30 | 38-127 | |
| 2-Butanone | 2000 | 1980 | 99 | 3 | 30 | 54-129 | |
| 2-Chloroethyl vinyl ether | 1000 | 75.0 J | 8 | 10 | 30 | 10-150 | F |
| 2-Chlorotoluene | 1000 | 875 | 88 | 1 | 30 | 69-117 | |
| 2-Hexanone | 2000 | 2280 | 114 | 2 | 30 | 47-139 | |
| 4-Chlorotoluene | 1000 | 855 | 86 | 3 | 30 | 71-116 | |
| 4-Methyl-2-pentanone | 2000 | 2160 | 108 | 2 | 30 | 56-131 | |
| Acetone | 2000 | 2010 | 100 | 2 | 30 | 33-145 | |
| Benzene | 1000 | 960 | 96 | 2 | 30 | 72-121 | |
| Bromobenzene | 1000 | 910 | 91 | 0 | 30 | 71-116 | |
| Bromochloromethane | 1000 | 960 | 96 | 5 | 30 | 73-121 | |
| Bromodichloromethane | 1000 | 875 | 88 | 1 | 30 | 67-120 | |
| Bromoform | 1000 | 580 | 58 | 5 | 30 | 32-128 | |
| Bromomethane | 1000 | 845 | 85 | 2 | 30 | 10-186 | |
| Carbon disulfide | 1000 | 840 | 84 | 4 | 30 | 57-147 | |
| Carbon tetrachloride | 1000 | 890 | 89 | 1 | 30 | 59-129 | |
| Chlorobenzene | 1000 | 1490 | 87 | 1 | 30 | 80-110 | |
| Chloroethane | 1000 | 890 | 89 | 5 | 30 | 21-165 | |
| Chloroform | 1000 | 905 | 91 | 1 | 30 | 76-118 | |
| Chloromethane | 1000 | 890 | 89 | 4 | 30 | 33-132 | |
| cis-1,2-Dichloroethene | 1000 | 925 | 93 | 3 | 30 | 70-120 | |

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton

Job No.: 240-12282-1

SDG No.: _____

Matrix: Water

Level: Low

Lab File ID: UX932483.D

Lab ID: 240-12358-A-2 MSD

Client ID: _____

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD % REC | % RPD | QC LIMITS | | # |
|---------------------------|--------------------------|--------------------------------|-----------------|----------|-----------|--------|---|
| | | | | | RPD | REC | |
| cis-1,3-Dichloropropene | 1000 | 760 | 76 | 0 | 30 | 51-110 | |
| Dibromochloromethane | 1000 | 740 | 74 | 3 | 30 | 56-118 | |
| Dibromomethane | 1000 | 970 | 97 | 3 | 30 | 77-121 | |
| Dichlorodifluoromethane | 1000 | 650 | 65 | 6 | 30 | 17-128 | |
| Diisopropyl ether | 1000 | 965 | 97 | 1 | 30 | 73-118 | |
| Ethylbenzene | 1000 | 885 | 89 | 1 | 30 | 75-116 | |
| Hexachlorobutadiene | 1000 | 760 | 76 | 1 | 30 | 27-132 | |
| Isopropylbenzene | 1000 | 865 | 87 | 1 | 30 | 68-116 | |
| Methyl tert-butyl ether | 1000 | 860 | 86 | 1 | 30 | 46-144 | |
| Methylene Chloride | 1000 | 930 | 89 | 1 | 30 | 63-128 | |
| m-Xylene & p-Xylene | 2000 | 1800 | 90 | 0 | 30 | 75-117 | |
| Naphthalene | 1000 | 610 | 61 | 2 | 30 | 15-158 | |
| n-Butylbenzene | 1000 | 915 | 92 | 1 | 30 | 56-127 | |
| n-Propylbenzene | 1000 | 870 | 87 | 2 | 30 | 64-124 | |
| o-Xylene | 1000 | 875 | 88 | 1 | 30 | 76-116 | |
| p-Isopropyltoluene | 1000 | 930 | 93 | 2 | 30 | 64-122 | |
| sec-Butylbenzene | 1000 | 900 | 90 | 2 | 30 | 60-119 | |
| Styrene | 1000 | 915 | 92 | 1 | 30 | 71-117 | |
| tert-Butyl alcohol | 20000 | 20000 | 100 | 5 | 30 | 70-130 | |
| tert-Butylbenzene | 1000 | 850 | 85 | 2 | 30 | 61-119 | |
| Tetrachloroethene | 1000 | 850 | 85 | 1 | 30 | 70-117 | |
| Toluene | 1000 | 930 | 93 | 1 | 30 | 78-114 | |
| trans-1,2-Dichloroethene | 1000 | 915 | 92 | 3 | 30 | 80-119 | |
| trans-1,3-Dichloropropene | 1000 | 750 | 75 | 1 | 30 | 46-116 | |
| Trichloroethene | 1000 | 910 | 91 | 0 | 30 | 66-120 | |
| Trichlorofluoromethane | 1000 | 850 | 85 | 5 | 30 | 46-157 | |
| Vinyl acetate | 1000 | 800 | 80 | 1 | 30 | 43-157 | |
| Vinyl chloride | 1000 | 815 | 82 | 1 | 30 | 49-130 | |
| Xylenes, Total | 3000 | 2680 | 89 | 0 | 30 | 76-116 | |

Column to be used to flag recovery and RPD values

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-12282-1
 SDG No.: _____
 Sample No.: STD8260 240-21323/6 Date Analyzed: 10/31/2011 19:06
 Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): UX90536.D Heated Purge: (Y/N) N
 Calibration ID: 4930

| | FB | | CBZ | | DCB | |
|-------------------------------|------------------|--------------|--------------|------|--------------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | 1578693 | 5.29 | 1327896 | 7.96 | 737837 | 10.19 |
| UPPER LIMIT | 3157386 | 5.79 | 2655792 | 8.46 | 1475674 | 10.69 |
| LOWER LIMIT | 789347 | 4.79 | 663948 | 7.46 | 368919 | 9.69 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | |
| ICV 240-21323/15 | | 1608933 5.30 | 1287572 7.96 | | 725889 10.18 | |
| CCVIS 240-48405/2 | | 1630676 5.29 | 1302590 7.96 | | 700081 10.19 | |

FB = Fluorobenzene
 CBZ = Chlorobenzene-d5
 DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = \pm 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-12282-1
SDG No.: _____
Sample No.: CCVIS 240-48405/2 Date Analyzed: 06/21/2012 18:29
Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18 (mm)
Lab File ID (Standard): UX932460.D Heated Purge: (Y/N) N
Calibration ID: 6381

| | | FB | | CBZ | | DCB | |
|-------------------|------------------|---------|------|---------|------|---------|-------|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 1630676 | 5.29 | 1302590 | 7.96 | 700081 | 10.19 |
| UPPER LIMIT | | 3261352 | 5.79 | 2605180 | 8.46 | 1400162 | 10.69 |
| LOWER LIMIT | | 815338 | 4.79 | 651295 | 7.46 | 350041 | 9.69 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| LCS 240-48405/5 | | 1579760 | 5.29 | 1262476 | 7.96 | 691196 | 10.18 |
| CCV 240-48405/3 | | 1597435 | 5.30 | 1291939 | 7.96 | 649931 | 10.19 |
| MB 240-48405/4 | | 1559227 | 5.30 | 1246006 | 7.96 | 630649 | 10.18 |
| 240-12282-1 | MRC-SW1A-061312 | 1507692 | 5.29 | 1239437 | 7.96 | 605115 | 10.18 |
| 240-12282-2 | MRC-SW2A-061312 | 1503606 | 5.29 | 1213472 | 7.96 | 624798 | 10.19 |
| 240-12282-3 | MRC-SW5A1-061312 | 1533292 | 5.29 | 1250707 | 7.96 | 610173 | 10.19 |
| 240-12282-4 | MRC-SW5A2-061312 | 1526999 | 5.30 | 1220143 | 7.96 | 588878 | 10.18 |
| 240-12282-5 | MRC-SW5B-061312 | 1522862 | 5.29 | 1231515 | 7.96 | 599044 | 10.19 |
| 240-12282-6 | MRC-SW6A-061312 | 1515762 | 5.30 | 1243194 | 7.96 | 615780 | 10.18 |
| 240-12282-7 | MRC-SW6B-061312 | 1555725 | 5.29 | 1262795 | 7.96 | 629436 | 10.19 |
| 240-12282-8 | MRC-SW7A-061312 | 1526304 | 5.30 | 1266759 | 7.96 | 651442 | 10.18 |
| 240-12282-9 | MRC-SW7B-061312 | 1528663 | 5.30 | 1239229 | 7.96 | 607325 | 10.19 |
| 240-12282-10 | MRC-SW8A-061312 | 1502812 | 5.30 | 1222308 | 7.96 | 621609 | 10.18 |
| 240-12282-11 | MRC-SW8B-061312 | 1543811 | 5.30 | 1268276 | 7.96 | 609233 | 10.18 |
| 240-12282-12 | MRC-SW9A-061312 | 1526728 | 5.30 | 1247881 | 7.96 | 621440 | 10.18 |
| 240-12282-13 | MRC-SW9B-061312 | 1542620 | 5.29 | 1262062 | 7.96 | 629761 | 10.19 |
| 240-12282-14 | TB-061312 | 1549961 | 5.29 | 1257756 | 7.96 | 631900 | 10.19 |
| 240-12358-A-2 MS | | 1579228 | 5.30 | 1284270 | 7.96 | 701938 | 10.18 |
| 240-12358-A-2 MSD | | 1632281 | 5.30 | 1313586 | 7.96 | 718722 | 10.18 |

FB = Fluorobenzene

FB = Fluorobenzene

CBZ = Chlorobenzene-d5

CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area

DCB = 1,4-Dichlorobenzene-d4

RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

| | | | |
|-------------------------------|------------|-------------------------------|-----------------------|
| CLIENT Hockehead-MRC | | JOB NUMBER SDG 240-12282-1 | |
| SUBJECT Sample Calculation | | | |
| BASED ON | | DRAWING NUMBER | |
| BY John Coquette | CHECKED BY | APPROVED BY | DATE July 13, 2012 |

Sample MRC-SW6A-061312; (trichloroethylene)

$$\frac{12834}{1515762} \times \frac{20 \mu\text{g/L}}{0.3096} = 0.55 \mu\text{g/L}$$

Sample Calculation

FORM I GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-12282-1

SDG No.: _____

Client Sample ID: MRC-SW6A-061312 Lab Sample ID: 240-12282-6

Matrix: Water Lab File ID: UX932473.D

Analysis Method: 8260B Date Collected: 06/13/2012 10:05

Sample wt/vol: 5 (mL) Date Analyzed: 06/21/2012 23:36

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.: 48405 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 | 5.0 | U | 5.0 | 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 | 0.55 | J | 1.0 | 0.17 |
| 75-69-4 | Trichlorofluoromethane | 1.0 | U | 1.0 | 0.21 |
| 108-05-4 | Vinyl acetate | 2.0 | U | 2.0 | 0.19 |
| 75-01-4 | Vinyl chloride | 0.50 | U | 0.50 | 0.22 |

TestAmerica Laboratories
Target Compound Quantitation Report

Sample Calculation

Data File: \\Ncchrom\ChromData\A3UX9\20120621-10973.b\UX932473.D
 Lims ID: 240-12282-C-6 Client ID: MRC-SW6A-061312
 Inject. Date: 21-Jun-2012 23:36:30 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 240-0010973-015
 Misc. Info.:
 Operator: 1904 Instrument ID: A3UX9
 Vol. Injected: 1.0000 ALS Bottle#: 15
 Lims Batch ID: 48405 Lims Sample ID: 15
 Detector: MS SCAN
 Method: \\Ncchrom\ChromData\A3UX9\20120621-10973.b\8260_9.m
 Last Update: 21-Jun-2012 21:52:19 Calib Date: 04-Jan-2012 21:08:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Ncchrom\ChromData\A3UX9\20120104-6517.b\UX91746.D
 Limit Group: MSV 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Process Host: CORP-CTX-15

First Level Reviewer: laveyt

Date: 22-Jun-2012 15:58:11

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|-------------------------------------|-----|--------|--------|--------|----|----------|-----------------|-------|
| * 1 Fluorobenzene | 96 | 5.295 | 5.298 | -0.003 | 99 | 1515762 | 20.0 | |
| * 2 Chlorobenzene-d5 | 117 | 7.957 | 7.960 | -0.003 | 84 | 1243194 | 20.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 10.182 | 10.185 | -0.003 | 95 | 615780 | 20.0 | |
| \$ 5 Dibromofluoromethane (Surr) | 113 | 4.738 | 4.738 | 0.0 | 58 | 368595 | 17.6 | |
| \$ 6 1,2-Dichloroethane-d4 (Surr) | 65 | 5.022 | 5.022 | 0.0 | 89 | 446646 | 17.9 | |
| \$ 7 Toluene-d8 (Surr) | 98 | 6.644 | 6.643 | 0.001 | 84 | 1493660 | 17.5 | |
| \$ 131 4-Bromofluorobenzene (Surr) | 95 | 9.057 | 9.057 | 0.0 | 94 | 519766 | 16.1 | |
| 12 Dichlorodifluoromethane | 85 | | 1.650 | | | | | |
| 13 Chloromethane | 50 | | 1.815 | | | | | |
| 14 Vinyl chloride | 62 | | 1.910 | | | | | |
| 15 Bromomethane | 94 | | 2.218 | | | | | |
| 16 Chloroethane | 64 | | 2.300 | | | | | |
| 18 Trichlorofluoromethane | 101 | | 2.502 | | | | | |
| 21 1,1-Dichloroethene | 61 | | 2.939 | | | | | |
| 23 1,1,2-Trichloro-1,2,2-trifluoroe | 101 | | 2.939 | | | | | |
| 22 Acetone | 43 | | 2.951 | | | | | |
| 26 Carbon disulfide | 76 | | 3.129 | | | | | |
| 30 Methylene Chloride | 49 | | 3.342 | | | | | |
| 31 2-Methyl-2-propanol | 59 | | 3.377 | | | | | |
| 33 trans-1,2-Dichloroethene | 61 | | 3.531 | | | | | |
| 34 Methyl tert-butyl ether | 73 | | 3.531 | | | | | |
| 36 1,1-Dichloroethane | 63 | | 3.874 | | | | | |
| 37 Vinyl acetate | 86 | | 3.898 | | | | | |
| 38 Isopropyl ether | 87 | | 3.913 | | | | | |
| 40 Tert-butyl ethyl ether | 59 | | 4.209 | | | | | |
| 42 cis-1,2-Dichloroethene | 61 | | 4.347 | | | | | |
| 41 2-Butanone (MEK) | 72 | | 4.347 | | | | | |
| 43 2,2-Dichloropropane | 77 | | 4.359 | | | | | |
| 47 Chlorobromomethane | 49 | | 4.549 | | | | | |
| 49 Chloroform | 83 | | 4.608 | | | | | |
| 50 1,1,1-Trichloroethane | 97 | | 4.773 | | | | | |

Sample Calculation

| Compound | Sig | RT | EXP RT | DLT RT | Q | Response | On-Col Amt ug/l | Flags |
|---------------------------------|-----|-------|-----------|-----------|----|--------------|--------------------|-------|
| 52 1,1-Dichloropropene | 75 | | 4.904 | | | | | |
| 53 Carbon tetrachloride | 117 | | 4.904 | | | | | |
| 55 Benzene | 78 | | 5.081 | | | | | |
| 56 1,2-Dichloroethane | 62 | | 5.081 | | | | | |
| 57 Tert-amyl methyl ether | 73 | | 5.144 | | | | | |
| 60 <u>Trichloroethene</u> | 130 | 5.602 | 5.602 | 0.0 | 57 | <u>12834</u> | 0.5469 | |
| 62 1,2-Dichloropropane | 63 | | 5.791 | | | | | |
| 65 Dibromomethane | 174 | | 5.898 | | | | | |
| 67 Dichlorobromomethane | 83 | | 6.016 | | | | | |
| 69 2-Chloroethyl vinyl ether | 63 | | 6.264 | | | | | |
| 70 cis-1,3-Dichloropropene | 75 | | 6.406 | | | | | |
| 71 4-Methyl-2-pentanone (MIBK) | 43 | | 6.525 | | | | | |
| 72 Toluene | 91 | | 6.702 | | | | | |
| 73 trans-1,3-Dichloropropene | 75 | | 6.880 | | | | | |
| 77 Tetrachloroethene | 166 | | 7.199 | | | | | |
| 76 1,3-Dichloropropane | 76 | | 7.211 | | | | | |
| 78 2-Hexanone | 43 | | 7.270 | | | | | |
| 79 Chlorodibromomethane | 129 | | 7.424 | | | | | |
| 123 Ethylene Dibromide | 107 | | 7.531 | | | | | |
| 82 Chlorobenzene | 112 | | 7.980 | | | | | |
| 83 1,1,1,2-Tetrachloroethane | 131 | | 8.051 | | | | | |
| 84 Ethylbenzene | 106 | | 8.075 | | | | | |
| 10 m-Xylene & p-Xylene | 106 | | 8.181 | | | | | |
| 85 o-Xylene | 106 | | 8.560 | | | | | |
| 86 Styrene | 104 | | 8.572 | | | | | |
| 87 Bromoform | 173 | | 8.761 | | | | | |
| 88 Isopropylbenzene | 105 | | 8.903 | | | | | |
| 90 1,1,2,2-Tetrachloroethane | 83 | | 9.187 | | | | | |
| 91 Bromobenzene | 156 | | 9.211 | | | | | |
| 92 1,2,3-Trichloropropane | 110 | | 9.234 | | | | | |
| 94 N-Propylbenzene | 120 | | 9.305 | | | | | |
| 95 2-Chlorotoluene | 126 | | 9.400 | | | | | |
| 104 4-Chlorotoluene | 126 | | 9.495 | | | | | |
| 97 tert-Butylbenzene | 119 | | 9.791 | | | | | |
| 98 1,2,4-Trimethylbenzene | 105 | | 9.838 | | | | | |
| 99 sec-Butylbenzene | 105 | | 10.004 | | | | | |
| 100 1,3-Dichlorobenzene | 146 | | 10.122 | | | | | |
| 101 4-Isopropyltoluene | 119 | | 10.146 | | | | | |
| 102 1,4-Dichlorobenzene | 146 | | 10.205 | | | | | |
| 103 1,2,3-Trimethylbenzene | 105 | | 10.256 | | | | | |
| 105 n-Butylbenzene | 91 | | 10.548 | | | | | |
| 106 1,2-Dichlorobenzene | 146 | | 10.583 | | | | | |
| 107 1,2-Dibromo-3-Chloropropane | 157 | | 11.352 | | | | | |
| 109 1,2,4-Trichlorobenzene | 180 | | 12.181 | | | | | |
| 110 Hexachlorobutadiene | 225 | | 12.346 | | | | | |
| 111 Naphthalene | 128 | | 12.429 | | | | | |
| 112 1,2,3-Trichlorobenzene | 180 | | 12.678 | | | | | |
| S 114 Xylenes, Total | 106 | | 16.530 | | | | | |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Sample Calculation

Lab Name: TestAmerica Canton

Job No.: 240-12282-1

Analy Batch No.: 21323

SDG No.:

Instrument ID: A3UX9

GC Column: DB-624 ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 10/31/2011 17:54

Calibration End Date: 10/31/2011 19:56

Calibration ID: 4930

| 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 | 0.0223 0.0201 | 0.0204 | 0.0198 | 0.0205 | 0.0207 | | Ave | | 0.0206 | | | | 4.3 | | 15.0 | | | |
| Acrylonitrile | 0.1040 0.0825 | 0.0840 | 0.0773 | 0.0785 | 0.0863 | | Ave | | 0.0855 | | | | 11.0 | | 15.0 | | | |
| Methyl tert-butyl ether | 0.8969 0.8168 | 0.7950 | 0.7443 | 0.7529 | 0.8161 | | Ave | | 0.8037 | | | | 6.9 | | 15.0 | | | |
| trans-1,2-Dichloroethene | 0.3403 0.3336 | 0.3430 | 0.3150 | 0.3132 | 0.3416 | | Ave | | 0.3311 | | | | 4.1 | | 15.0 | | | |
| Hexane | 0.2417 0.2224 | 0.1870 | 0.1716 | 0.1933 | 0.2245 | | Ave | | 0.2068 | | | | 13.0 | | 15.0 | | | |
| 1,1-Dichloroethane | 0.4348 0.4017 | 0.4325 | 0.3876 | 0.3724 | 0.4247 | | Ave | | 0.4089 | | | 0.1000 | 6.3 | | 15.0 | | | |
| Vinyl acetate | 0.0589 | 0.0668 | 0.0513 | 0.0513 | 0.0588 | | Ave | | 0.0574 | | | | 11.0 | | 15.0 | | | |
| cis-1,2-Dichloroethene | 0.3975 0.3416 | 0.4035 | 0.3352 | 0.3211 | 0.3433 | | Ave | | 0.3570 | | | | 9.7 | | 15.0 | | | |
| 2,2-Dichloropropane | 0.1478 0.1868 | 0.1914 | 0.1812 | 0.1818 | 0.1955 | | Ave | | 0.1807 | | | | 9.4 | | 15.0 | | | |
| 2-Butanone | 0.0601 0.0292 | 0.0557 | 0.0284 | 0.0271 | 0.0301 | | Lin1 | 0.0367 | 0.0287 | | | | | | 0.9970 | | | 0.9900 |
| Bromochloromethane | 0.2012 0.1778 | 0.1820 | 0.1751 | 0.1701 | 0.1808 | | Ave | | 0.1812 | | | | 5.9 | | 15.0 | | | |
| Tetrahydrofuran | 0.0540 | 0.0755 | 0.0514 | 0.0536 | 0.0560 | | Lin1 | 0.0178 | 0.0539 | | | | | | 0.9990 | | | 0.9900 |
| Chloroform | 0.4760 0.4722 | 0.5039 | 0.4450 | 0.4408 | 0.4828 | | Ave | | 0.4701 | | | | 5.1 | | 15.0 | | | |
| 1,1,1-Trichloroethane | 0.2653 0.3260 | 0.3068 | 0.3000 | 0.3064 | 0.3412 | | Ave | | 0.3076 | | | | 8.4 | | 15.0 | | | |
| Cyclohexane | 0.2973 0.3295 | 0.3255 | 0.2739 | 0.3097 | 0.3406 | | Ave | | 0.3128 | | | | 7.8 | | 15.0 | | | |
| 1,1-Dichloropropene | 0.2900 0.3508 | 0.3131 | 0.3230 | 0.3300 | 0.3585 | | Ave | | 0.3276 | | | | 7.7 | | 15.0 | | | |
| Carbon tetrachloride | 0.2782 0.3033 | 0.2251 | 0.2426 | 0.2597 | 0.3074 | | Ave | | 0.2694 | | | | 12.0 | | 15.0 | | | |
| Benzene | 1.0923 1.0786 | 1.0399 | 0.9973 | 0.9919 | 1.0933 | | Ave | | 1.0489 | | | | 4.4 | | 15.0 | | | |
| 1,2-Dichloroethane | 0.3333 0.3712 | 0.3708 | 0.3544 | 0.3455 | 0.3787 | | Ave | | 0.3590 | | | | 4.9 | | 15.0 | | | |
| Trichloroethene | 0.3200 0.3201 | 0.3116 | 0.2861 | 0.2918 | 0.3281 | | Ave | | 0.3096 | | | | 5.5 | | 15.0 | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

APPENDIX C—CHEMICAL RESULTS DATA TABLE

TABLE C-1

CHEMICAL RESULTS FOR SURFACE WATER SAMPLES - DARK HEAD COVE AND COW PEN CREEK, JUNE 2012
 LOCKHEED MARTIN MIDDLE RIVER COMPLEX, MIDDLE RIVER, MARYLAND
 PAGE 1 OF 6

| LOCATION SAMPLE ID SAMPLE DATE SAMPLE CODE MATRIX SAMPLE TYPE | MRC-SW1A MRC-SW1A-061312 20120613 NORMAL SW NORMAL | MRC-SW2A MRC-SW2A-061312 20120613 NORMAL SW NORMAL | MRC-SW5A1 MRC-SW5A1-061312 20120613 NORMAL SW NORMAL | MRC-SW5A2 MRC-SW5A2-061312 20120613 NORMAL SW NORMAL | MRC-SW5B MRC-SW5B-061312 20120613 NORMAL SW NORMAL |
|--|---|---|---|---|---|
| VOLATILES (UG/L) | | | | | |
| 1,1,1,2-TETRACHLOROETHANE | 0.23 U | 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 | 0.22 U |
| 1,1,2,2-TETRACHLOROETHANE | 0.18 U | 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 | 0.28 U |
| 1,1-DICHLOROETHANE | 0.15 U | 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 | 0.19 U |
| 1,1-DICHLOROPROPENE | 0.13 U | 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 | 0.17 U |
| 1,2,3-TRICHLOROPROPANE | 0.43 U | 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 | 0.0059 U |
| 1,2,4-TRICHLOROBENZENE | 0.15 U | 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 | 0.12 U |
| 1,2-DIBROMO-3-CHLOROPROPANE | 0.67 U | 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 | 0.24 U |
| 1,2-DICHLOROBENZENE | 0.13 U | 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 | 0.22 U |
| 1,2-DICHLOROPROPANE | 0.18 U | 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 | 0.14 U |
| 1,3-DICHLOROPROPANE | 0.16 U | 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 | 0.13 U |
| 2,2-DICHLOROPROPANE | 0.13 U | 0.13 U | 0.13 U | 0.13 U | 0.13 U |
| 2-BUTANONE | 0.57 UR | 0.57 UR | 0.57 UR | 0.57 UR | 0.57 UR |
| 2-CHLOROETHYL VINYL ETHER | 0.99 U | 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 | 0.11 U |
| 2-HEXANONE | 0.41 U | 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 | 0.18 U |
| 4-ISOPROPYLTOLUENE | 0.12 U | 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 | 0.32 U |
| ACETONE | 3.6 J | 4.7 J | 1.1 U | 1.1 U | 1.1 U |
| BENZENE | 0.13 U | 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 | 0.13 U |
| BROMOCHLOROMETHANE | 0.29 U | 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 | 0.15 U |
| BROMOFORM | 0.64 U | 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 | 0.41 U |
| CARBON DISULFIDE | 0.13 U | 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 | 0.13 U |

TABLE C-1

CHEMICAL RESULTS FOR SURFACE WATER SAMPLES - DARK HEAD COVE AND COW PEN CREEK, JUNE 2012
 LOCKHEED MARTIN MIDDLE RIVER COMPLEX, MIDDLE RIVER, MARYLAND
 PAGE 2 OF 6

| LOCATION | MRC-SW1A | MRC-SW2A | MRC-SW5A1 | MRC-SW5A2 | MRC-SW5B |
|---------------------------|-----------------|-----------------|------------------|------------------|-----------------|
| SAMPLE ID | MRC-SW1A-061312 | MRC-SW2A-061312 | MRC-SW5A1-061312 | MRC-SW5A2-061312 | MRC-SW5B-061312 |
| SAMPLE DATE | 20120613 | 20120613 | 20120613 | 20120613 | 20120613 |
| SAMPLE CODE | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL |
| MATRIX | SW | SW | SW | SW | SW |
| SAMPLE TYPE | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL |
| VOLATILES (UG/L) | | | | | |
| CHLOROBENZENE | 0.15 U | 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 | 0.18 U |
| CHLOROETHANE | 0.29 U | 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 | 0.16 U |
| CHLOROMETHANE | 0.3 U | 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 | 0.17 U |
| CIS-1,3-DICHLOROPROPENE | 0.14 U | 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 | 0.28 U |
| DICHLORODIFLUOROMETHANE | 0.31 U | 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 | 1.5 U |
| ETHYL TERT-BUTYL ETHER | 0.11 U | 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 | 0.17 U |
| HEXACHLOROBUTADIENE | 0.3 U | 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 | 0.13 U |
| M+P-XYLENES | 0.24 U | 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 | 0.17 U |
| METHYLENE CHLORIDE | 0.33 U | 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 | 0.24 U |
| N-BUTYLBENZENE | 0.12 U | 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 | 0.14 U |
| O-XYLENE | 0.14 U | 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 | 0.13 U |
| STYRENE | 0.11 U | 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 | 0.067 U |
| TERT-BUTYLBENZENE | 0.13 U | 0.13 U | 0.13 U | 0.13 U | 0.13 U |
| TERTIARY-BUTYL ALCOHOL | 3.9 UR | 3.9 UR | 3.9 UR | 3.9 UR | 3.9 UR |
| TETRACHLOROETHENE | 0.29 U | 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 | 0.13 U |
| TOTAL XYLENES | 0.28 U | 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 | 0.19 U |
| TRANS-1,3-DICHLOROPROPENE | 0.19 U | 0.19 U | 0.19 U | 0.19 U | 0.19 U |
| TRICHLOROETHENE | 0.17 U | 0.17 U | 0.17 J | 0.19 J | 0.19 J |
| TRICHLOROFLUOROMETHANE | 0.21 U | 0.21 U | 0.21 U | 0.21 U | 0.21 U |
| VINYL ACETATE | 0.19 UR | 0.19 UR | 0.19 UR | 0.19 UR | 0.19 UR |
| VINYL CHLORIDE | 0.22 U | 0.22 U | 0.22 U | 0.22 U | 0.22 U |

TABLE C-1

CHEMICAL RESULTS FOR SURFACE WATER SAMPLES - DARK HEAD COVE AND COW PEN CREEK, JUNE 2012
 LOCKHEED MARTIN MIDDLE RIVER COMPLEX, MIDDLE RIVER, MARYLAND
 PAGE 3 OF 6

| LOCATION | MRC-SW6A | MRC-SW6B | MRC-SW7A | MRC-SW7B | MRC-SW8A |
|--------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| SAMPLE ID | MRC-SW6A-061312 | MRC-SW6B-061312 | MRC-SW7A-061312 | MRC-SW7B-061312 | MRC-SW8A-061312 |
| SAMPLE DATE | 20120613 | 20120613 | 20120613 | 20120613 | 20120613 |
| SAMPLE CODE | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL |
| MATRIX | SW | SW | SW | SW | SW |
| SAMPLE TYPE | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL |
| VOLATILES (UG/L) | | | | | |
| 1,1,1,2-TETRACHLOROETHANE | 0.23 U | 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 | 0.22 U |
| 1,1,2,2-TETRACHLOROETHANE | 0.18 U | 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 | 0.28 U |
| 1,1-DICHLOROETHANE | 0.15 U | 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 | 0.19 U |
| 1,1-DICHLOROPROPENE | 0.13 U | 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 | 0.17 U |
| 1,2,3-TRICHLOROPROPANE | 0.43 U | 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 | 0.0059 U |
| 1,2,4-TRICHLOROBENZENE | 0.15 U | 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 | 0.12 U |
| 1,2-DIBROMO-3-CHLOROPROPANE | 0.67 U | 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 | 0.24 U |
| 1,2-DICHLOROBENZENE | 0.13 U | 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 | 0.22 U |
| 1,2-DICHLOROPROPANE | 0.18 U | 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 | 0.14 U |
| 1,3-DICHLOROPROPANE | 0.16 U | 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 | 0.13 U |
| 2,2-DICHLOROPROPANE | 0.13 U | 0.13 U | 0.13 U | 0.13 U | 0.13 U |
| 2-BUTANONE | 0.57 UR | 0.57 UR | 0.57 UR | 0.57 UR | 0.57 UR |
| 2-CHLOROETHYL VINYL ETHER | 0.99 U | 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 | 0.11 U |
| 2-HEXANONE | 0.41 U | 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 | 0.18 U |
| 4-ISOPROPYLTOLUENE | 0.12 U | 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 | 0.32 U |
| ACETONE | 1.1 U | 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 | 0.13 U |
| BROMOBENZENE | 0.13 U | 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 | 0.29 U |
| BROMODICHLOROMETHANE | 0.15 U | 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 | 0.64 U |
| BROMOMETHANE | 0.41 U | 0.41 U | 0.41 U | 0.41 U | 0.41 U |
| CARBON DISULFIDE | 0.13 U | 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 | 0.13 U |

TABLE C-1

CHEMICAL RESULTS FOR SURFACE WATER SAMPLES - DARK HEAD COVE AND COW PEN CREEK, JUNE 2012
 LOCKHEED MARTIN MIDDLE RIVER COMPLEX, MIDDLE RIVER, MARYLAND
 PAGE 4 OF 6

| LOCATION | MRC-SW6A | MRC-SW6B | MRC-SW7A | MRC-SW7B | MRC-SW8A |
|---------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| SAMPLE ID | MRC-SW6A-061312 | MRC-SW6B-061312 | MRC-SW7A-061312 | MRC-SW7B-061312 | MRC-SW8A-061312 |
| SAMPLE DATE | 20120613 | 20120613 | 20120613 | 20120613 | 20120613 |
| SAMPLE CODE | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL |
| MATRIX | SW | SW | SW | SW | SW |
| SAMPLE TYPE | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL |
| VOLATILES (UG/L) | | | | | |
| CHLOROBENZENE | 0.15 U | 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 | 0.18 U |
| CHLOROETHANE | 0.29 U | 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 | 0.16 U |
| CHLOROMETHANE | 0.3 U | 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 | 0.17 U |
| CIS-1,3-DICHLOROPROPENE | 0.14 U | 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 | 0.28 U |
| DICHLORODIFLUOROMETHANE | 0.31 U | 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 | 1.5 U |
| ETHYL TERT-BUTYL ETHER | 0.11 U | 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 | 0.17 U |
| HEXACHLOROBUTADIENE | 0.3 U | 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 | 0.13 U |
| M+P-XYLENES | 0.24 U | 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 | 0.17 U |
| METHYLENE CHLORIDE | 0.33 U | 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 | 0.24 U |
| N-BUTYLBENZENE | 0.12 U | 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 | 0.14 U |
| O-XYLENE | 0.14 U | 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 | 0.13 U |
| STYRENE | 0.11 U | 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 | 0.067 U |
| TERT-BUTYLBENZENE | 0.13 U | 0.13 U | 0.13 U | 0.13 U | 0.13 U |
| TERTIARY-BUTYL ALCOHOL | 3.9 UR | 3.9 UR | 3.9 UR | 3.9 UR | 3.9 UR |
| TETRACHLOROETHENE | 0.29 U | 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 | 0.13 U |
| TOTAL XYLENES | 0.28 U | 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 | 0.19 U |
| TRANS-1,3-DICHLOROPROPENE | 0.19 U | 0.19 U | 0.19 U | 0.19 U | 0.19 U |
| TRICHLOROETHENE | 0.55 J | 0.63 J | 0.17 U | 0.32 J | 0.66 J |
| TRICHLOROFLUOROMETHANE | 0.21 U | 0.21 U | 0.21 U | 0.21 U | 0.21 U |
| VINYL ACETATE | 0.19 UR | 0.19 UR | 0.19 UR | 0.19 UR | 0.19 UR |
| VINYL CHLORIDE | 0.22 U | 0.22 U | 0.22 U | 0.22 U | 0.22 U |

TABLE C-1

CHEMICAL RESULTS FOR SURFACE WATER SAMPLES - DARK HEAD COVE AND COW PEN CREEK, JUNE 2012
 LOCKHEED MARTIN MIDDLE RIVER COMPLEX, MIDDLE RIVER, MARYLAND
 PAGE 5 OF 6

| LOCATION | MRC-SW8B | MRC-SW9A | MRC-SW9B |
|--------------------------------|-----------------|-----------------|-----------------|
| SAMPLE ID | MRC-SW8B-061312 | MRC-SW9A-061312 | MRC-SW9B-061312 |
| SAMPLE DATE | 20120613 | 20120613 | 20120613 |
| SAMPLE CODE | NORMAL | NORMAL | NORMAL |
| MATRIX | SW | SW | SW |
| SAMPLE TYPE | NORMAL | NORMAL | NORMAL |
| VOLATILES (UG/L) | | | |
| 1,1,1,2-TETRACHLOROETHANE | 0.23 U | 0.23 U | 0.23 U |
| 1,1,1-TRICHLOROETHANE | 0.22 U | 0.22 U | 0.22 U |
| 1,1,2,2-TETRACHLOROETHANE | 0.18 U | 0.18 U | 0.18 U |
| 1,1,2-TRICHLOROTRIFLUOROETHANE | 0.28 U | 0.28 U | 0.28 U |
| 1,1-DICHLOROETHANE | 0.15 U | 0.15 U | 0.15 U |
| 1,1-DICHLOROETHENE | 0.19 U | 0.19 U | 0.19 U |
| 1,1-DICHLOROPROPENE | 0.13 U | 0.13 U | 0.13 U |
| 1,2,3-TRICHLOROBENZENE | 0.17 U | 0.17 U | 0.17 U |
| 1,2,3-TRICHLOROPROPANE | 0.43 U | 0.43 U | 0.43 U |
| 1,2,3-TRIMETHYLBENZENE | 0.0059 U | 0.0059 U | 0.0059 U |
| 1,2,4-TRICHLOROBENZENE | 0.15 U | 0.15 U | 0.15 U |
| 1,2,4-TRIMETHYLBENZENE | 0.12 U | 0.12 U | 0.12 U |
| 1,2-DIBROMO-3-CHLOROPROPANE | 0.67 U | 0.67 U | 0.67 U |
| 1,2-DIBROMOETHANE | 0.24 U | 0.24 U | 0.24 U |
| 1,2-DICHLOROBENZENE | 0.13 U | 0.13 U | 0.13 U |
| 1,2-DICHLOROETHANE | 0.22 U | 0.22 U | 0.22 U |
| 1,2-DICHLOROPROPANE | 0.18 U | 0.18 U | 0.18 U |
| 1,3-DICHLOROBENZENE | 0.14 U | 0.14 U | 0.14 U |
| 1,3-DICHLOROPROPANE | 0.16 U | 0.16 U | 0.16 U |
| 1,4-DICHLOROBENZENE | 0.13 U | 0.13 U | 0.13 U |
| 2,2-DICHLOROPROPANE | 0.13 U | 0.13 U | 0.13 U |
| 2-BUTANONE | 0.57 UR | 0.57 UR | 0.57 UR |
| 2-CHLOROETHYL VINYL ETHER | 0.99 U | 0.99 U | 0.99 U |
| 2-CHLOROTOLUENE | 0.11 U | 0.11 U | 0.11 U |
| 2-HEXANONE | 0.41 U | 0.41 U | 0.41 U |
| 4-CHLOROTOLUENE | 0.18 U | 0.18 U | 0.18 U |
| 4-ISOPROPYLTOLUENE | 0.12 U | 0.12 U | 0.12 U |
| 4-METHYL-2-PENTANONE | 0.32 U | 0.32 U | 0.32 U |
| ACETONE | 1.1 U | 1.1 U | 1.1 U |
| BENZENE | 0.13 U | 0.13 U | 0.13 U |
| BROMOBENZENE | 0.13 U | 0.13 U | 0.13 U |
| BROMOCHLOROMETHANE | 0.29 U | 0.29 U | 0.29 U |
| BROMODICHLOROMETHANE | 0.15 U | 0.15 U | 0.15 U |
| BROMOFORM | 0.64 U | 0.64 U | 0.64 U |
| BROMOMETHANE | 0.41 U | 0.41 U | 0.41 U |
| CARBON DISULFIDE | 0.13 U | 0.13 U | 0.13 U |
| CARBON TETRACHLORIDE | 0.13 U | 0.13 U | 0.13 U |

TABLE C-1

CHEMICAL RESULTS FOR SURFACE WATER SAMPLES - DARK HEAD COVE AND COW PEN CREEK, JUNE 2012
 LOCKHEED MARTIN MIDDLE RIVER COMPLEX, MIDDLE RIVER, MARYLAND
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| LOCATION | MRC-SW8B | MRC-SW9A | MRC-SW9B |
|---------------------------|-----------------|-----------------|-----------------|
| SAMPLE ID | MRC-SW8B-061312 | MRC-SW9A-061312 | MRC-SW9B-061312 |
| SAMPLE DATE | 20120613 | 20120613 | 20120613 |
| SAMPLE CODE | NORMAL | NORMAL | NORMAL |
| MATRIX | SW | SW | SW |
| SAMPLE TYPE | NORMAL | NORMAL | NORMAL |
| VOLATILES (UG/L) | | | |
| CHLOROBENZENE | 0.15 U | 0.15 U | 0.15 U |
| CHLORODIBROMOMETHANE | 0.18 U | 0.18 U | 0.18 U |
| CHLOROETHANE | 0.29 U | 0.29 U | 0.29 U |
| CHLOROFORM | 0.16 U | 0.16 U | 0.16 U |
| CHLOROMETHANE | 0.3 U | 0.3 U | 0.3 U |
| CIS-1,2-DICHLOROETHENE | 0.17 U | 0.17 U | 0.17 U |
| CIS-1,3-DICHLOROPROPENE | 0.14 U | 0.14 U | 0.14 U |
| DIBROMOMETHANE | 0.28 U | 0.28 U | 0.28 U |
| DICHLORODIFLUOROMETHANE | 0.31 U | 0.31 U | 0.31 U |
| DIISOPROPYL ETHER | 1.5 U | 1.5 U | 1.5 U |
| ETHYL TERT-BUTYL ETHER | 0.11 U | 0.11 U | 0.11 U |
| ETHYLBENZENE | 0.17 U | 0.17 U | 0.17 U |
| HEXACHLOROBUTADIENE | 0.3 U | 0.3 U | 0.3 U |
| ISOPROPYLBENZENE | 0.13 U | 0.13 U | 0.13 U |
| M+P-XYLENES | 0.24 U | 0.24 U | 0.24 U |
| METHYL TERT-BUTYL ETHER | 0.17 U | 0.17 U | 0.17 U |
| METHYLENE CHLORIDE | 0.33 U | 0.33 U | 0.33 U |
| NAPHTHALENE | 0.24 U | 0.24 U | 0.24 U |
| N-BUTYLBENZENE | 0.12 U | 0.12 U | 0.12 U |
| N-PROPYLBENZENE | 0.14 U | 0.14 U | 0.14 U |
| O-XYLENE | 0.14 U | 0.14 U | 0.14 U |
| SEC-BUTYLBENZENE | 0.13 U | 0.13 U | 0.13 U |
| STYRENE | 0.11 U | 0.11 U | 0.11 U |
| TERT-AMYL METHYL ETHER | 0.067 U | 0.067 U | 0.067 U |
| TERT-BUTYLBENZENE | 0.13 U | 0.13 U | 0.13 U |
| TERTIARY-BUTYL ALCOHOL | 3.9 UR | 3.9 UR | 3.9 UR |
| TETRACHLOROETHENE | 0.29 U | 0.29 U | 0.29 U |
| TOLUENE | 0.13 U | 0.13 U | 0.13 U |
| TOTAL XYLENES | 0.28 U | 0.28 U | 0.28 U |
| TRANS-1,2-DICHLOROETHENE | 0.19 U | 0.19 U | 0.19 U |
| TRANS-1,3-DICHLOROPROPENE | 0.19 U | 0.19 U | 0.19 U |
| TRICHLOROETHENE | 0.82 J | 0.33 J | 0.34 J |
| TRICHLOROFLUOROMETHANE | 0.21 U | 0.21 U | 0.21 U |
| VINYL ACETATE | 0.19 UR | 0.19 UR | 0.19 UR |
| VINYL CHLORIDE | 0.22 U | 0.22 U | 0.22 U |

U - Not detected at listed detection limit shown left of the letter.

UR - Nondetected value rejected as a result of technical noncompliance.

J - Positive result is considered estimated as a result of technical noncompliance.

ug/L - micrograms per liter.

SW - surface water